



BALRAMPUR CHINI MILLS LIMITED

UNIT - GULARIA

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GCM/EC Compliance Report/Distillery/ 2735

Date: 06-12-2022

The Director
Ministry of Environment, Forest & Climate Change
Kendriya Bhawan, 5th Floor, Sector "H" Aliganj
Lucknow (Uttar Pradesh)

Sub.: Submission of Six Monthly Compliance Report of Environmental Clearance for Molasses based Distillery of 160 KLD at Village-Gularia, PO-Nausar Gularia, Tehsil-Golagokaramnath, Distt.Lakhimpur Kheri, UP by M/s. Balrampur Chini Mills Limited, Unit-Gularia, Division-Chemical for the period of April, 2022 to September, 2022.
Currently unit is operating at 200 KLD capacity with No Increase in Pollution Load Certificate.

Ref.No. EC F.No. J-11011/236/2018-IA-II (I) dated 5th November, 2019

Dear Sir,

This is in connection to above mentioned subject, we are hereby submitting the six-monthly compliance report of the conditions of Environmental Clearance for Molasses based Distillery of 160 KLD (currently running at 200 KLD) at village -Gularia, PO-Nausar Gularia, Tehsil-Golagokaramnath, Distt.Lakhimpur Kheri, UP by M/s.Balrampur Chini Mills Limited, Unit-Gularia, Division-Chemical for the period from April,2022 to September,2022 along with the annexures as follows :-

1. Annexure-01 : Environmental Clearance compliance.
2. Annexure-02 : Copy of CTO (Air, Water & HWM)
3. Annexure-03 : Test Report
4. Annexure-04 : Ground Water NOC from UPGWD
5. Annexure-05 : Photographs of Plants & Green Belt
6. Annexure-06 : Office Memorandum
7. Annexure-07 : Medical records of employees
8. Annexure-08 : Environment Management Cell
9. Annexure-09 : Environmental Clearance

We would request you to accept the soft copy of the report being submitted for information please.

Thanking you,

Yours faithfully,
For **BALRAMPUR CHINI MILLS LTD.**
UNIT-GULARIA, DIVISION-CHEMICAL

CHIEF GENERAL MANAGER

Encl: As above.

Annexure-1

Environmental Clearance Compliance

**SIX-MONTHLY ENVIRONMENTAL COMPLIANCE
REPORT OF STIPULATED CONDITIONS OF
ENVIRONMENTAL CLEARANCE**

(April, 2022 to September, 2022)

For

**Molasses based Distillery of 160 KLD
at
Village- Gularia, P.O.-Nausar Gularia,
Tehsil-Golagokarannath, Distt. - LakhimpurKheri,
Uttar Pradesh**

**For Submission to:
Ministry of Environment, Forest & Climate Change
(Regional Office, Lucknow)**

**Submitted By:
M/s Balrampur Chini Mills Limited
Unit Gularia Division Chemical**

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CHAPTER-1, INTRODUCTION AND PROJECT DESCRIPTION

Six monthly environmental compliance/status report is submitted for Molasses based Distillery by M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical for September 2022. The Project is located at vill. Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt. LakhimpurKheri, Uttar Pradesh. Prior Environment Clearance was obtained from MoEF wide letter no.: **F.No. J-11011/236/2018-IA-II (I)**, dated **5th November, 2019**. Consent to operate for Water has already been obtained for the project Vide Ref No. **134026/UPPCB/Lucknow (UPPCBRO)/CTO/water/Lucknow/2021, dated 18/08/2021** for and Consent to operate for Air Vide Ref No. **134022/UPPCB/Lucknow (UPPCBRO)/CTO/air/Lucknow/2021, dated 18/08/2021**. Copy of CTO is attached here as **Annexure-2**.

Unit also obtained No objection certificate for “**No increase in pollution load**” of Distillery capacity **200 KLD** on B heavy Molasses/Sugar Syrup from UPPCB.

Specific and general conditions stipulated in Environment Clearance have been complied during construction and post construction phases.

Environmental mitigation measures described in Environmental Management Plan are being implemented operation phase. **M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical** management team is fully conscious about Environmental Management and enhancing green belt development in project surrounding area.

Six monthly compliance/status reports for April, 2022 to September, 2022 for conditions stipulated in the Environmental Clearance letter issued by MoEF are enclosed as **Annexure-1**. Photographs view of implemented mitigation measures are also attached for the ready reference as Photo Documentation.

CHAPTER-2, COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE

Name of the Project: Molasses based Distillery of 160 KLD at vill. Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt. LakhimpurKheri, Uttar Pradesh by M/s Balrampur Chini Mills Limited Unit Gularia Division Distillery.

Clearance Letter No: F.No. J-11011/236/2018-IA-II(I), dated 5th November, 2019

Period of Compliance Report: (April, 2022 to September, 2022)

Environment Clearance conditions:

2	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up molasses-based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) in an area of 8.747 ha located at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP). The project also involves installation of 8 MW Co-generation power plant.
3.	Land area available for the project is 8.747 ha. Industry shall develop greenbelt in an area of 2.88 ha, covering 33% of total project area. The estimated project cost is Rs 208.742 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 110 crores and the recurring cost (operation and maintenance) will be about Rs. 11 crores per annum. Employment opportunity will be for 160 persons.
4.	There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and Wildlife Corridors etc. within 10 km from the project site. Sharda River flows at 6.6 km in the East direction from the project location.
5.	<p>Total water requirement is estimated to be 2816 cum/day, which includes fresh water requirement of 960 cum/day, proposed to be met from ground water. The proposal in this regard has been recommended to CGWA by CGWB (Northern Region), Lucknow vide letter dated 22nd February, 2019.</p> <p>Spent wash of 800 cum/day shall be treated in MEE and concentrate from MEE will be incinerated in Slop fired boiler. Other effluent of 1139 cum/day shall be treated through Condensate Polishing unit. Treated effluent shall be reused/recycled in the process/boiler/cooling tower. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.</p> <p>Power requirement of 4.5 MW shall be met from own Co-Generation plant. Unit will install Slop fired boiler of 60 TPH capacity. Electro static precipitator with a stack of height of 72m will be installed to control particulate emissions.</p> <p>Carbon dioxide will be generated from fermentation process shall be recovered from the process and sold to beverage industry. Ash of 60.03 TPD will be mixed with fermenter sludge and utilized as manure, in the proposed granulation plant.</p>
6.	The project/activity is covered under category A of item 5 (g) 'Distilleries of the schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal/approval at Central level in the Ministry

7.	Standard Terms of Reference for the project was issued on 24 th August, 2018. Public Hearing for the proposed distillery project has been conducted by the State Pollution Control Board on 22 February, 2019. The main issues raised during the public hearing are related to employment, health issues. waste water, water sources and odour issues, etc.	
8.	The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 6-8 May 2019 & 26-28 June, 2019. The project proponent and their accredited consultant M/s Ascenso Enviro Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory, in consonance with the presented ToR, and recommended the project for grant of environmental clearance.	
9.	Based on the proposal submitted by the project proponent and recommendations of the EAC (industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills at Village Rudrapur Gularia, Tehsil Gola-Gokarannath District Lakhimpur Khen (UP), under the provisions of the EIA Notification, 2006, and the amendments there in, subject to compliance of the terms and conditions as under.	
Sr. No.	Conditions	Compliance Status
9 (a)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable from time to time, shall be obtained from the state Pollution control Board as required.	All the Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable obtained from UPPCB, Lucknow as under: - 1.) Consent Order (CTO) under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent vide letter No. 134026/UPPCB/ Lucknow (UPPCBRO)/ CTO/water/LUCKNOW/2021 dated 18/08/2021. 2) Consent Order (CTO) under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) vide letter No. 134022/UPPCB/Lucknow (UPPCBRO)/ CTO/air/Lucknow/2021 dated 18/08/2021. Is enclosed as Annexure-2 .
(b)	As already committed by the project proponent, Zero liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve Zero Liquid Discharge and we are maintaining the same. Effluent other than spent wash like spent lees, Process condensate and utilities effluent is being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP), and treated water from CPU/ERP is being used in process & cooling tower makeup water.

(c)	Necessary authorization required under the hazardous and other wastes (Management and Trans boundary Movement) Rules, 2016, solid waste management rules, 2016 shall be obtained and the provisions contained in the rules shall be strictly adhered to.	We have receipt Authorization for Hazardous Wastes from UPPCB, Lucknow. Ref. No. 11713/UPPCB/Lucknow (UPPCBRO)/HWM/LAKHIMPUR KHIRI/2020 dt. 04/05/2020
(d)	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	The gaseous emissions from various process units is as per load/mass based standards notified by the Ministry on 19th May, 1993 and standards prescribed from time to time by CPCB and UP Pollution Control Board. Stack Emission Monitoring Report is enclosed as Annexure-3 .
(e)	Coal shall not be used as fuel in Boiler.	We are using only Slop & Bagasse in Incineration Boiler as a fuel for Steam and power generation.
(f)	Total fresh water requirements shall not exceed 960 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	We have obtained necessary NOC from UPGWD, via Registration no. 202105000150 & 202105000152 which is valid up to 08/07/2026 is enclosed as Annexure-4 .
(g)	Hazardous chemical shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvents transfer through pumps.	We have already stored all the Hazardous chemical in tanks, tank farms, drums, carboys etc. Flame arrester is also provided on tank farm and the solvents transfer through pumps.
(h)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed-off to the TSDF.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and are in process to produce produced Granular potash in Granulation Plant.
	(i) The company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of hazardous Chemical (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.	The company has strictly complied with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.
(j)	The company shall undertake waste minimization as below: -	
	(i) Meeting and Control of quantities of active ingredients to minimize waste.	We are using ingredients in optimum quantity for the control of wastage.
	(ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and are in process to produce produced Granular potash in Granulation Plant.

	(iii) Use of automated filling to minimize spillage.	Automated filling system is already installed to minimize spillage.
	(iv) Use of close feed system into batch reactors.	Close feed system are used into batch reactors.
	(v) Venting equipment through vapour recovery system.	We have proper arrangement for vapours recovery System.
	(vi) Uses of high-pressure hoses for equipment's cleaning to reduce waste water generation.	We are using High Pressure Jet Cleaning Machine for equipment's cleaning to reduce waste water generation.
(k)	The green Belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road side etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Provision of green belt in 33% of total project area has already been taken place and plantation is being done regularly inside factory premises as per CPCB & DFO advice. We have planted 18000 plants up to 30.09.2022. Photographs are annexed as Annexure-5 .
(l)	All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.	All the Commitments made during the Public Hearing are complied.
(m)	At least 5% of the total project cost shall be allocated for Corporate Environmental Responsibility (CER) and item wise details along with time bound action plan shall be prepared and submitted to the Ministry Regional Office.	As per the MoEF Office Memorandum dated 30.09.2020 superseding the Office Memorandum dated 01.05.2018 regarding the Corporate Environmental Responsibility, the unit is committed and is providing education funds in training centers/support in nearby villages school, support in health care facilities, drinking water supply, and allocated funds for miscellaneous activities like solar street lights, battery, solar panel etc. in nearby villages. Copy of the Office Memorandum dated 30.09.2020 is enclosed as Annexure-6 .
(n)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustics enclosures shall be provided to DG set for controlling the noise pollution.	DG sets emission limits and stack height is as per conformity with extant regulations and the CPCB guidelines. Acoustics enclosures provided to DG Set for controlling the noise pollution.
(o)	The unit shall make the arrangement for protection of possible fire hazardous during manufacturing process in material handling. Firefighting system shall be as per the norms.	Industry has already installed well established firefighting arrangement for protection of possible fire hazardous during manufacturing process in material handling. All the Firefighting system is as per the norms.
(p)	Occupational health surveillance of the workers shall be done on a	An occupational health Surveillance program is already in our system. Medical

	regular basis and records maintained as per the Factories Act.	facilities have been provided by industry for proper checkup the health of employees. For this purpose industry has well equipped hospital inside the factory Campus for regular monitoring of the employee's health and medical records of each employee are also maintained. Report is enclosed as Annexure-7.
(q)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Industry has already earmarked adequate space inside the plant premises for parking of vehicles for raw materials and finished products.
(r)	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	We have provided MS tanks for storage of raw material i.e. Molasses to prevent dust pollution and other fugitive emissions.
(s)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Online monitoring system (24 X 7 Monitoring devices) has been installed at stack emission, spent wash generation & slop consumption in boiler. As this is a zero liquid discharge based unit, hence web camera has been installed as per CPCB guidelines near spent wash storage lagoon and MEE & Incineration area of Distillery.
(t)	CO ₂ generated from the process shall be bottled/made solid ice and sold to authorize vendors.	CO ₂ Plant installed and Production of Liquid CO ₂ and Dry Ice started on dated 01.03.2021 and sold to authorize vendors.
Sr. No.	(A) Specific Conditions	Compliance Status
9.1	The grant of environmental clearance is further subject to compliance of other generic conditions as under: -	
i	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) State Government and / or any other statutory authority.	Being adhered as per the stipulation made by UP Pollution Control Board and the State Government.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the	No expansion or modification work has been carried out without prior approval of The Ministry of Environment, Forest and Climate Change.

	adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concern stations are anticipated.	Ambient Air quality monitoring stations have already been set up in consideration of maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission are regularly submitted to UPPCB/CPCB and Regional Office, of MoEF & CC at Lucknow once in six months. Ambient Air Quality Monitoring Report is enclosed as Annexure-3 .
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be complied with.	We have already complied The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009. Ambient Air quality Report are attached as Annexure-3 .
v	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	We have already provided noise control measures including acoustic hoods, silencers, enclosures etc. on all the noise generating sources to maintain the overall noise level in and around the plant area are within the Standards (85dBA). Noise control measures has already been planned and enclosures would be put to keep the ambient noise level below 75 dBA (day time) and 70 dBA (night time). Noise Level Monitoring Report is enclosed as Annexure-3 .
vi	The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.	Rain water harvesting measures are already taken for the recharge of ground water and to utilize the same for different industrial operations within the plant.
vii	Training shall be imparted to all employees on safety and health aspects of chemicals handling Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	We have imparted training to all employees on safety and health aspects of chemicals handling Pre-employment as well as routine periodical medical examinations for all employees undertaken on regular basis.
viii	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public	All the environmental protection measures and safeguards recommended in EIA/EMP reports have been effectively implemented in respect of environmental management, risk mitigation measures and public hearing.

	hearing shall be implemented.	
ix	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	We are already undertaking socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc. Besides this we have also organized free medical health check-up camps in nearby villages under supervision of expert Doctors.
x	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is in place and equipped with full fledged laboratory facility to carry our environmental monitoring functions. Annexure-8 We have full-fledged Environmental Laboratory for testing and monitoring of treatment unit's parameters. The equipment's available in Lab are as under: - <ul style="list-style-type: none"> ▪ Laminar Flow ▪ BOD incubator ▪ Centrifugal Machine ▪ Electric Oven ▪ Muffle Furnace ▪ pH Meter ▪ Conductivity Meter and TDS Meter ▪ Electronic Weighing Machine ▪ COD reflux unit ▪ Turbidity meter ▪ DO meter ▪ Oxygen Analyzer ▪ Multi-gas Detector
xi	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management /pollution control measures shall not be diverted for any other purpose.	There is no paucity of funds for environmental pollution control measures (i.e.-Air Pollution Control, Water pollution control, Noise pollution control, Solid waste management, Environmental monitoring and Surveillance, Occupational Health Management & Green belt development) to implement the conditions stipulated by MoEF&CC as well as the State Pollution Control Board.
xii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any,	Copy of Clearance Letter already sent to all concerned in compliance of guidelines.

	from whom suggestions/representations, if any, were received while processing the proposal.	
xiii	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status reports shall be posted on the website of the company.	Six monthly compliance reports (both in hard copies as well as by e-mail) along with monitored data are submitted to the Regional Office of MoEF&CC, CPCB and UP Pollution Control Board, Lucknow.
xiv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional officers of MoEF&CC by e-mail.	We have submitted the environmental statement report in Form-V to the state Pollution control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and also submitted to the Regional Office of the MoEF&CC at Lucknow.
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	Already advertised in two local newspapers i.e. Hindustan (Barielly Edition) dated 03.12.2019 & Rashtriya Sahara (Lucknow Edition) dated. 01.12.2019. A copy of the same was already forwarded to the MoEF&CC, Regional Office, Lucknow under cover of our letter No.GCM/MoEF/3639 dated 03-12-2019.
10	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages	Environmental protection measures as stipulated are being completed with time frame.

	and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Concerted efforts are being put for implementation of all condition as directed.
11	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	We assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a clean and safe environment in an around manufacturing facility and continued our efforts for the same.
12	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	No any appeal is lying against this Environmental Clearance with the National Green Tribunal.
13	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	Provision of Compliance of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments are also complied as directed.

CHAPTER-3, DETAILS OF ENVIRONMENTAL MONITORING

3.1 AMBIENT AIR QUALITY MONITORING

3.1.1 Ambient air Quality Monitoring Stations

Ambient air quality monitoring has been carried out at 03 locations; near Main Gate, Near Boiler House & Village: Gularia of the project site. This will enable to have a comparative analytical understanding about air quality and to access changes in the air environment in the study area with respect to the condition prevailing. The locations of the ambient air quality monitoring stations are given in **Table-3.1**.

Table-3.1: Details of Ambient Air Quality Monitoring Stations

Sr. No	Location Code	Location Name/ Description	Environmental Setting of Surrounding
1.	AAQ-1	Near Main Gate	Industrial
2.	AAQ-2	Near Boiler House	Industrial
3.	AAQ-3	Village: Gularia	Residential

AAQ-1: Near Main Gate

The sampler was placed near Main gate and was free from any obstructions. Surroundings of the sampling site represent industrial environmental setting.

AAQ- 2: Near Boiler House

The sampler was placed Near Boiler House and was free from any obstructions. Surroundings of the sampling site represent Industrial environmental setting.

AAQ-3: Village: Gularia

The sampler was placed near Village: Gularia and was free from any obstructions. Surroundings of the sampling site represent residential environmental setting.

3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Respirable Suspended Particulate Matter (PM₁₀)
- Fine Particulate Matter (PM_{2.5})
- Sulphur Dioxide (SO₂)
- Oxides of Nitrogen (NO_x)

The duration of sampling of PM₁₀, PM_{2.5}, SO₂ and NO_x was 24 hourly continuous sampling per day duration monitoring. The monitoring was conducted for one day at the location. This is to allow a comparison with the National Ambient Air Quality Standards.

The air samples were analyzed as per standard methods specified by Indian Standards (IS: 5182). The techniques used for ambient air quality monitoring and minimum detectable levels are given in **Table-3.2**.

Fine Particulate Sampler instruments have been used for monitoring Particulate Matter 2.5 (PM_{2.5} i.e. <2.5 microns), and Respirable Dust Sampler with gaseous sampling attachment

was used for sampling Respirable fraction (<10 microns), gaseous pollutants like SO₂, and NO_x.

Table-3.2
Techniques used for Ambient Air Quality Monitoring

Sr. No	Parameter	Technique	Range of testing /limit of detection
1.	Respirable Suspended Particulate Matter (PM ₁₀)	Respirable Dust Sampler, with cyclone separator, Gravimetric Method	5.0 - 1200
2.	Fine Particulate Matter (PM _{2.5})	Fine Particulate Sampler, Gravimetric Method	2.0 - 500
3.	Sulphur dioxide	Modified West and Gaeke	5.0 - 1050
4.	Oxides of Nitrogen	Jacob & Hochheiser	6.0 - 750

3.1.3 Ambient Air Quality Monitoring Results Near Main Gate

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂ and NO_x are presented in Table 3.3.

Table 3.3
Ambient Air Quality Monitoring Results Near Main Gate

Sr. No	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	84.23	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	50.86	2.0 - 500	For 24 hour =60
3	Sulphur Dioxides (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	12.50	5.0 - 1050	For 24 hour =80
4	Oxides of nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	24.24	6.0 - 750	For 24 hour =80

3.1.4 Ambient Air Quality Monitoring Results Near Boiler House

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂ and NO_x are presented in Table 3.4.

Table 3.4
Ambient Air Quality Monitoring Results Near Boiler House

Sr. No	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	82.8	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	48.80	2.0 - 500	For 24 hour =60
3	Sulphur Dioxides (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.48	5.0 - 1050	For 24 hour =80

4	Oxides of nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	22.84	6.0 - 750	For 24 hour =80
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3.1.5 Ambient Air Quality Monitoring Results Near Village: Gularia

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂ and NO_x are presented in Table 3.5.

Table 3.5
Ambient Air Quality Monitoring Results Near Village: Gularia

Sr. No	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	92.4	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	46.82	2.0 - 500	For 24 hour =60
3	Sulphur Dioxides (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.18	5.0 - 1050	For 24 hour =80
4	Oxides of nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	21.92	6.0 - 750	For 24 hour =80

3.1.6 Discussion on Ambient Air Quality in the Study Area

The value of PM₁₀ at Ambient Air Monitoring Station No: 1, 2 & 3 are 84.23 µg/m³, 82.8 µg/m³ & 92.4 µg/m³ respectively which were within permissible limit of 100 µg/m³ and PM_{2.5} levels are 50.86 µg/m³ Near Main Gate, 48.80 µg/m³ at Near Boiler House and 46.82 µg/m³ at Near Village Gularia, were also observed within permissible limit of 60 µg/m³ (for residential, rural and other areas as stipulated in the National Ambient Air Quality Standards). SO₂ ranges between 12.50 µg/m³ to 14.48 µg/m³ and NO_x ranges between 21.92 µg/m³ to 24.24 µg/m³ was also observed within the corresponding stipulated limits (Limit for SO₂ and NO_x; 80 µg/m³) at all of the 03 monitoring locations. Station wise variation of ambient air quality parameters has been graphically shown in **Figure-3.1 to 3.4**.

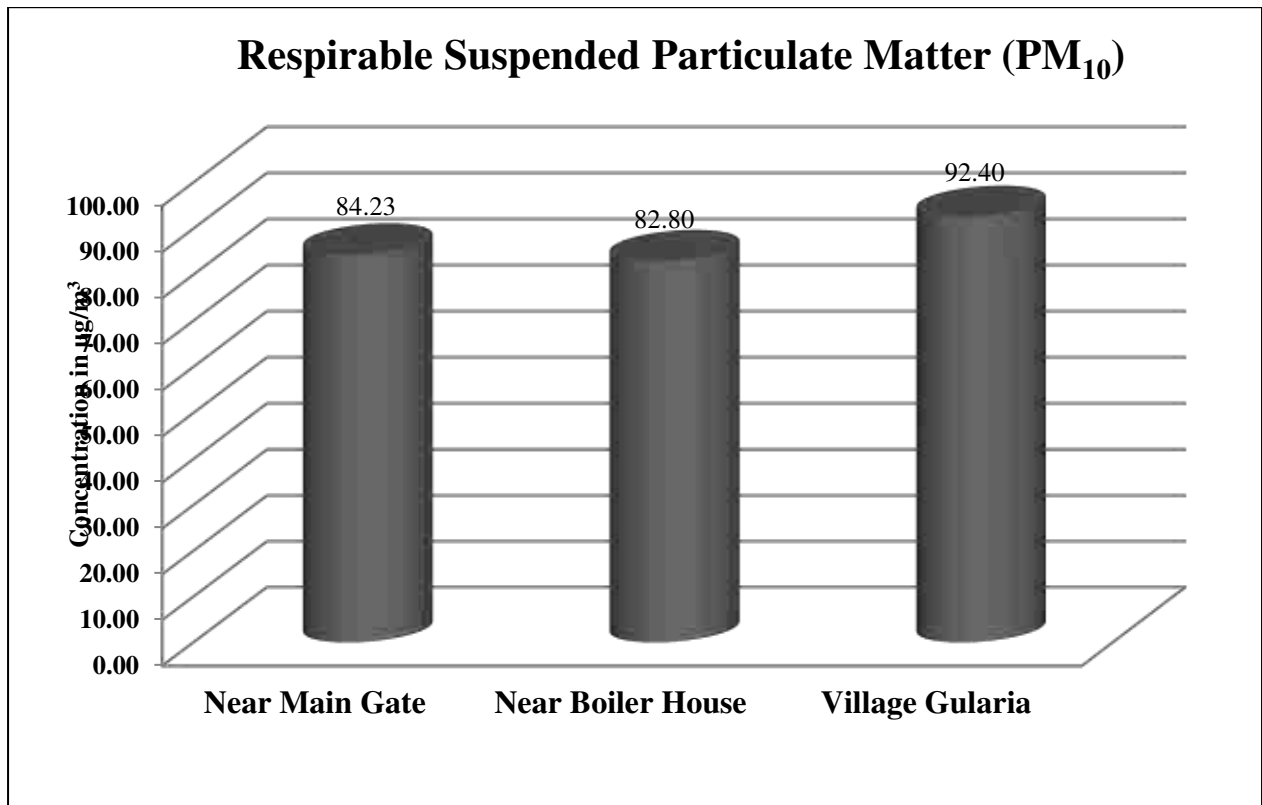


Figure-3.1: Graphs Showing PM₁₀ Concentration at all sites

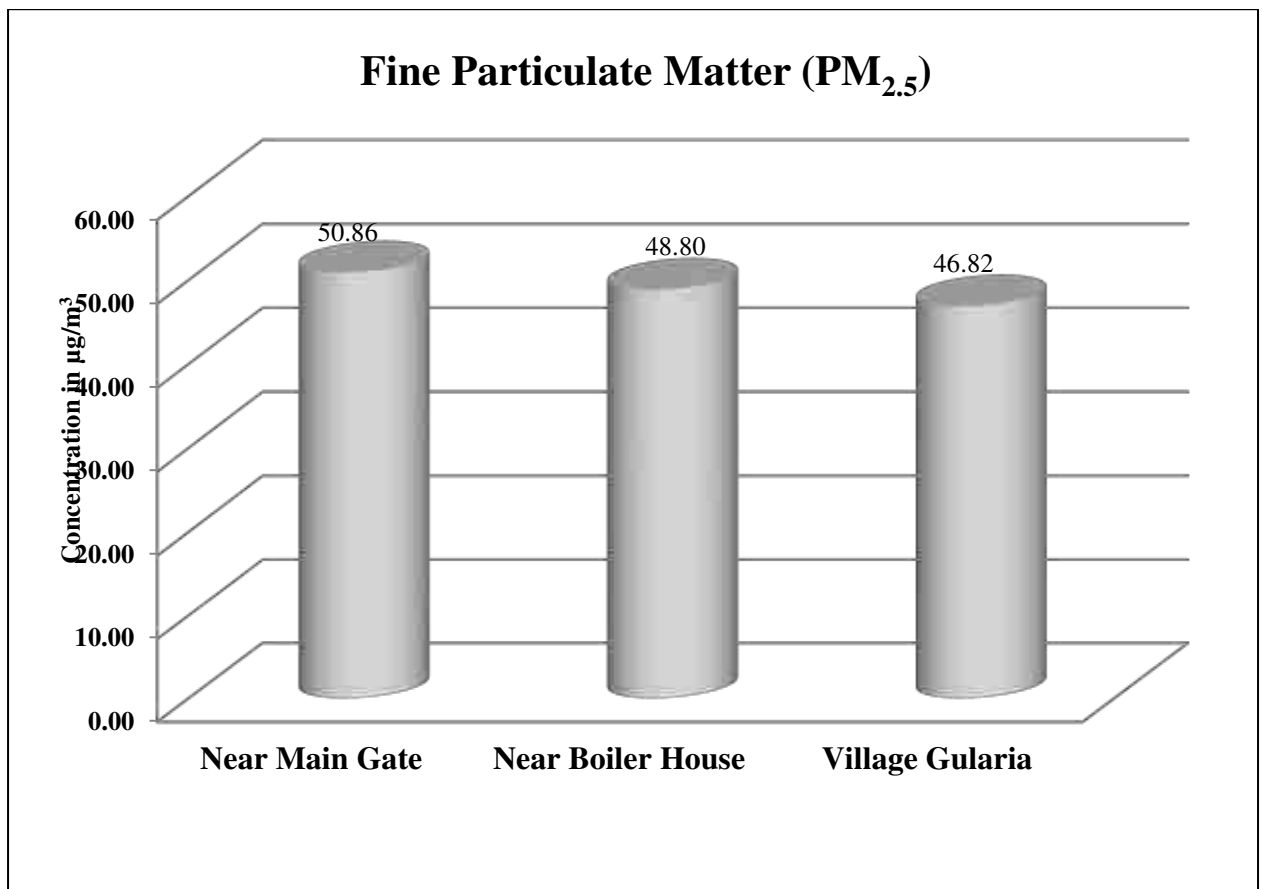


Figure-3.2: Graphs Showing PM_{2.5} Concentration at all sites

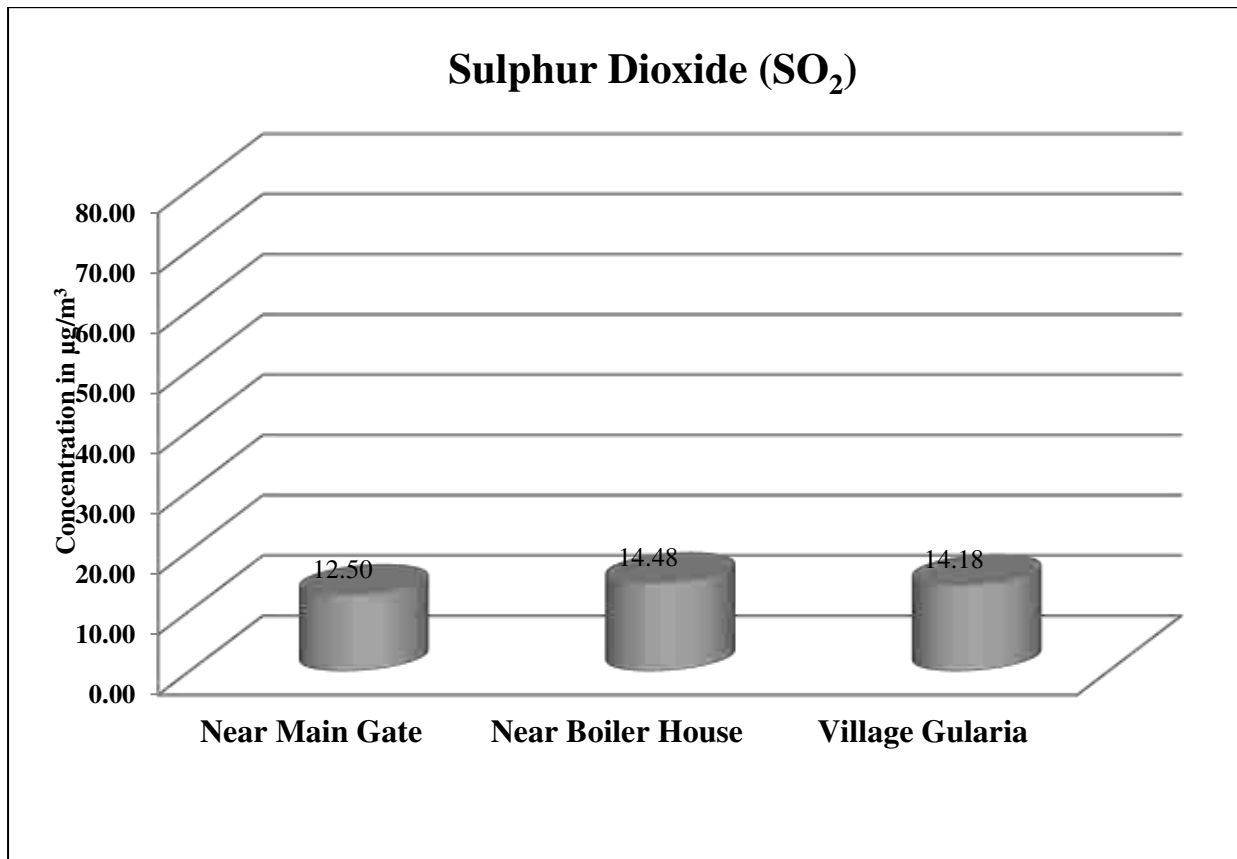


Figure-3.3: Graphs Showing SO₂ Concentration at all sites

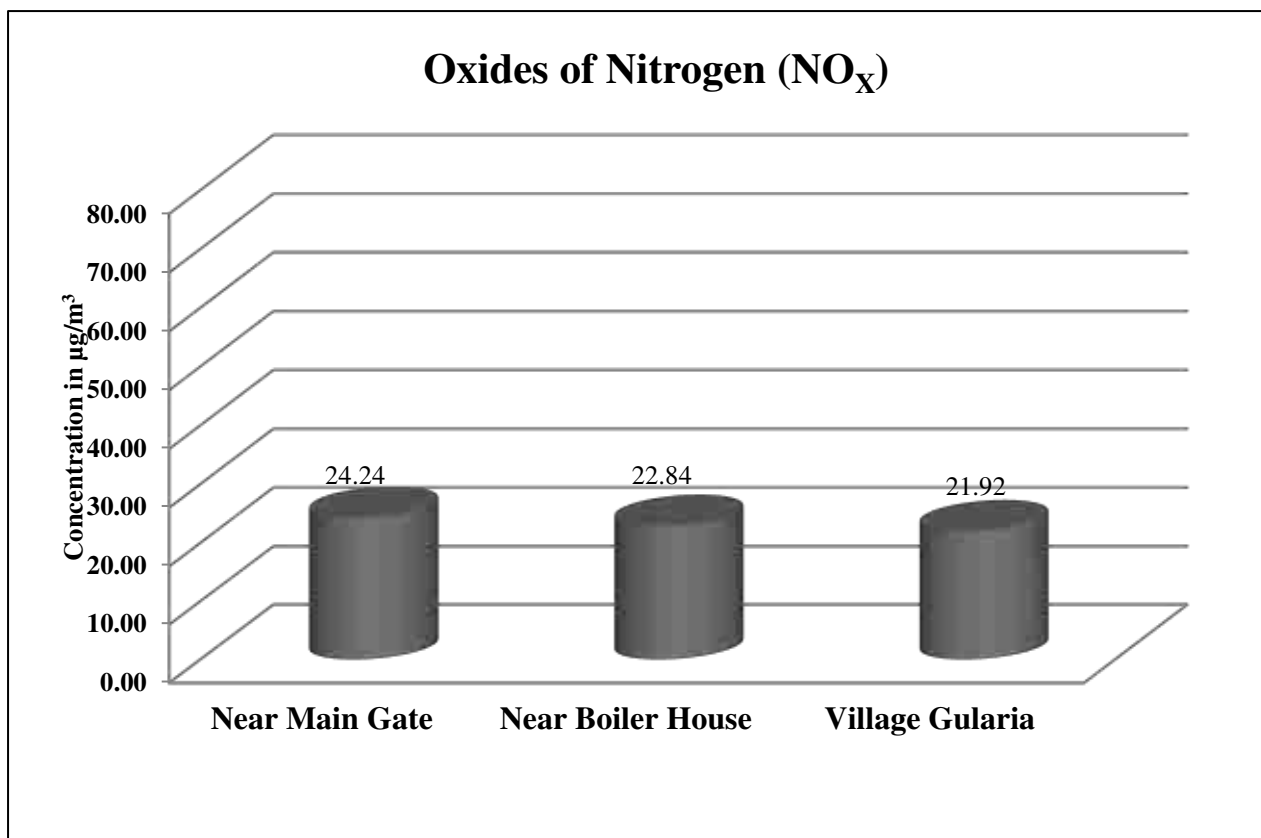


Figure-3.4: Graphs Showing NO_x Concentration at all sites

3.2 STACK EMISSION MONITORING

Stack Emission monitoring was carried out by EPA approved Laboratory on date 21.09.2022 for the installed 60.0 TPH slop fired boiler (attached with Electro Static Precipitator as air pollution control device with a stack height of 80 meter).

3.2.1 Stack Emission Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter (PM)

The Method used for Stack Emission monitoring and range of testing with CPCB standard are given in **Table-3.6**

Table-3.6:
Details of Stack Emission Monitoring Results

Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing/ Limit of Detection
1	Particulate Matter	mg/Nm ³	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	48.2	2.0 - 1000
2	Sulphur Dioxide	mg/Nm ³	IS: 11255 (Part-2): 1985 Reaffirmed: 2014	34.6	1.0-2000
3	Oxides of Nitrogen	mg/Nm ³	IS: 11255 (Part-1): 2006 Reaffirmed: 2017	54.8	2.0-1000
4	Carbon Dioxide	%	ETRC/LABSOPA/11;2015	10.4	0.1-20
5	Carbon Monoxide	%	ETRC/LABSOPA/13;2015	0.48	0.01-5.0

3.3 AMBIENT NOISE MONITORING

3.3.1 Ambient Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels near project site due to various construction allied activities and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at 01 location as given in **Table-3.7**.

Table-3.7:
Details of Ambient Noise Monitoring Stations

Sr. No	Location Code	Location name and description	Date of Monitoring
1.	NQ-1	Within Plant Premises	20/09/2022 (6:00 AM) to 21/09/2022 (6:00 AM)

3.3.2 Methodology of Noise Monitoring

Noise levels were measured using sound level meter. Noise level monitoring was carried out continuously for 24-hours with one hour interval starting at 06:00 hrs to 06:00 hrs next day. The noise levels were monitored on working days only. During each hour Leq were directly computed by the instrument based on the sound pressure levels. Monitoring was carried out at 'A' response.

3.3.3 Ambient Noise Monitoring Results

The location wise ambient noise monitoring results is summarized in **Table-3.8**. The noise levels are graphically presented in **Figure-3.5**.

**Table-3.8:
Ambient Noise Monitoring Results**

Ambient Noise Level				
Sr. No.	Parameter	Unit	Results DAY TIME (6:00 AM - 10:00 PM)	Results NIGHT TIME (10:00 PM - 6:00 AM)
1	Equivalent sound level	dB(A)	60.28	52.67

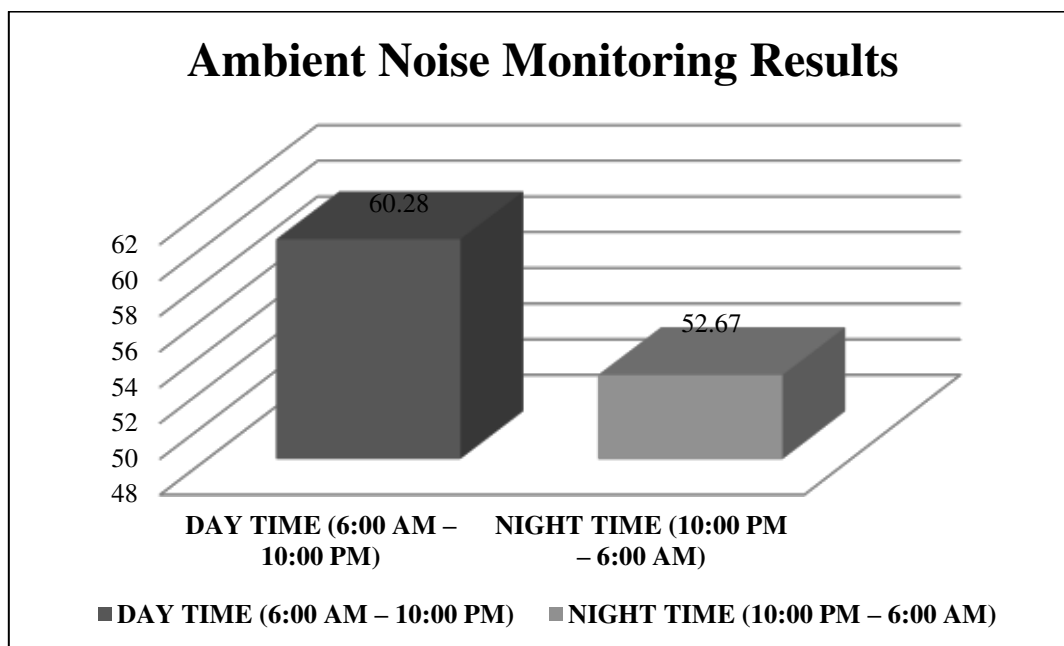


Figure 3.5: Day and Night Time noise Level Within Plant Premises

Table-3.9: Noise Standards as per CPCB Schedule rule 3(1) and 4(1)

Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

3.3.4 Discussion on Ambient Noise Levels in the Study Area

Day Time Noise Levels (L_{day}):

The day time noise level at monitoring station was found 60.28 dB(A), which is within limits prescribed for industrial area i.e. 75 dB (A).

Night Time Noise Levels (L_{night}):

The night time noise level at monitoring station was found 52.67 dB(A), which is within limit prescribed for industrial area i.e. 70 dB (A).

3.4 GROUND WATER QUALITY MONITORING

3.4.1 Ground water Quality Monitoring Locations

Keeping in view the importance of ground water, sample of ground water was collected from the project site for the assessment of impacts of the project on the groundwater quality.

Water sample was collected from the project site. The sample was analyzed for various parameters to compare with the standards for Ground water as per IS: 10500 for Groundwater sources. The details of water sampling locations are given in **Table-3.10**.

Table-3.10:

Details of Water Quality Monitoring Station

Sr. No	Location Code	Location name and description	Date of Monitoring
1.	GW-1	Borewell Within Premises	06 th April, 2022
2.	GW-1	Borewell Within Premises	09 th May, 2022
3.	GW-1	Borewell Within Premises	11 th June, 2022
4.	GW-1	Borewell Within Premises	08 th July, 2022
5.	GW-1	Borewell Within Premises	07 th August, 2022
6.	GW-1	Borewell Within Premises	21 st September, 2022

3.4.2 Methodology of ground water Quality Monitoring

Sampling of ground water was carried out on 06.04.2022, 09.05.2022, 11.06.2022, 08.07.2022, 07.08.2022 and 21.09.2022. Samples were collected as grab sample and sampling forms are filled in as per the sampling plan. The preservative sample were properly added to preserve as per standard operating procedures (SOP) and stored immediately in ice boxes, which were ensured for appropriate temperatures. **Sample for chemical analysis was collected in polyethylene carboys. Sample collected for metal content were acidified to <2 pH with 1 ml HNO₃. A sample for bacteriological analysis was collected in sterilized glass bottles.**

Soon after the completion of sampling, chain of custody sheets for the samples are filled in and then they were transported by road to Environmental & Technical Research Centre, Lucknow for further analysis. Proper care was taken during packing and transportation of samples. All the samples reached the central laboratory within the holding times for different parameters. After ensuring the same the samples were forwarded immediately for analysis.

The samples were analyzed as per the standard procedures specified in 'Standard Methods for the Examination of Water and Wastewater' published by American Public Health Association (APHA) and CPCB. The analytical techniques and the test methods adopted for testing of ground water are given in **Table-3.11 to Table-3.16**.

3.4.3 Ground water Quality Monitoring Results

The detailed Ground water quality monitoring results are presented in **Table-3.11 to Table-3.16**.

Table-3.11:
Ground water Quality Results at Borewell Within Premises (April, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	392.4	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.92	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	27.21	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	28.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.34	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	31.2	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	292.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	264.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.14	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.02	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.62	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.12:
Ground water Quality Results at Borewell Within Premises (May, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	412.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	54.50	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	32.07	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	22.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	34.0	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	272.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.14	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.02	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.28	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.13:
Ground water Quality Results at Borewell Within Premises (June, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	422.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.31	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	32.07	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	20.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.34	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	38.02	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	316.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	280.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.11	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.02	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.78	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.14:
Ground water Quality Results at Borewell Within Premises (July, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	408.2	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	57.71	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	32.07	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	18.01	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.32	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	30.8	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	284.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	276.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.07	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.01	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.88	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.15:
Ground water Quality Results at Borewell Within Premises (August, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	424.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.31	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.99	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	28.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.44	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	22.04	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	312.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	292.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.10	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.03	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.62	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.16:
Ground water Quality Results at Borewell Within Premises (September, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	428.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	57.71	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.02	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	32.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.46	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	26.0	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	296.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	284.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.08	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.06	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.64	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

3.5 SOIL MONITORING

3.5.1 Soil Monitoring Locations

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and also predict impacts, which have arisen due to execution of various constructions allied activities. Accordingly, a study of assessment of the soil quality has been carried out.

To assess impacts of ongoing project activities on the soil in the area, the Physico-chemical characteristics of soils were examined by obtaining soil samples from selected points and analysis of the same. Single sample of soil was collected from the project site for studying soil characteristics, the location of which is listed in **Table-3.17**.

Table-3.17:

Details of Soil Monitoring Stations

Sr. No	Location Code	Location name and description
1.	SQ-1	Near CPU

3.5.2 Methodology of Soil Monitoring

The sampling has been done in line with IS: 2720 & Methods of Soil Analysis, Part-1st, 2nd Edition, 1986 of American Society for Agronomy and Soil Science Society of America. The homogenized samples were analyzed for physical and chemical characteristics (physical, chemical and heavy metal concentrations). The soil samples were collected in the month of March on 21.09.2022.

The samples have been analyzed as per the established scientific methods for Physico-chemical parameters. The heavy metals have been analyzed by using Atomic Absorption Spectro-photometer.

3.5.3 Soil Monitoring Results

Single sample of soil is collected from the site to check the quality of soil of the study area. The Physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample, are presented in **Table-3.18**.

Table-3.18:

Physico-Chemical Characteristics of Soil at near Plant Site

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.3	1 - 14
2	Electrical Conductivity	µmhos/cm	IS: 14767:2000 Reaffirmed:2016	278.0	1.0 - 40000
3	Moisture content	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2015	2.24	1.0 - 50
7	Sulphur	Kg/Hec	IS:14685: 1999 Reaffirmed: 2014	12.08	5.0 - 100
8	Boron	mg/kg	ETRC/ LABSOPS/06	BDL	4.0 - 100
9	Copper	mg/kg	ETRC/ LABSOPS/07	0.38	0.3 - 500
10	Zinc	mg/kg	ETRC/ LABSOPS/08	2.12	1.0 - 500

11	Iron	mg/kg	ETRC/ LABSOPS/09	22.12	5.0 - 500
12	Manganese	mg/kg	ETRC/ LABSOPS/10	12.40	5.0 - 500

3.5.4 Discussion on Soil Characteristics in the Study Area

The soil in study area is characterized by moderate organic content. The soil quality in the project area has not been affected by the project activities

Annexure-2

Consent to Operate (Air, Water & Hazardouse Waste Management)



UTTAR PRADESH POLLUTION CONTROL BOARD
Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. - 134022/UPPCB/Lucknow(UPPCBRO)/CTO/air/LUCKNOW/2021

Dated : 18/08/2021

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
.LUCKNOW,262901
LUCKNOW

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical

Reference Application No. 13105695

Dated : 18/08/2021

1. With reference to the application for consent for emission of air pollutants from the plant of M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 18/08/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2021.08.18 11:21:36 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar Agarwal Digitally signed by Pramod Kumar
Agarwal
Date: 2021.08.18 11:22:13 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. Pollution Control Board

Dated : 18/08/2021

CONDITIONS OF CONSENT

- 1(a). The details of Air pollution sources and stacks attached with Boiler

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	01 nos. Slop Fired Boiler (capacity of 60.0 TPH)	Bagasse and slop	1	Particulate Matter	72 meter from GL

- 1(b) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	1	Particulate Matter	150 mg/Nm ³

- The equipment for air pollution control system and monitoring, as proposed by the industry and approved by the Board should be installed in their premises itself.
- Industry shall dispose the incineration boiler ash in such a manner so that there should not be any adverse impact on public health at large and on Soil, Water & Air environment.
- The modification or installation in the existing pollution control equipment shall be done only by prior approval of the Board.
- The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants shall be in accordance with the standards prescribed by the Board/MoEF& CC/or otherwise mandatory.
- Unit shall do provisions for control of fugitive emissions from process as per the norms of the Board/MOEF & CC/or otherwise mandatory.
- The unit shall submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report analysed by Board/NABL accredited laboratory shall be submitted.
- In case of closure directions under section-5 of E (P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.
- Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com.
- Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
- Industry shall abide by orders / directions issued by Hon'ble Supreme court, Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time.

The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. CTO (Air) issued earlier vide letter no. 108586/U PPCB/Lucknow(LAB)/CTO/air/LUCKNOW/2020 dated 05.12.2021 (validity upto 31.12.2022) for production of 160 KLD ENA/RSA/AA using Molasses as raw material is hereby revoked.
2. This consent is issued for the production of Ethanol/RS/ENA/AA 160 KLD to 210 KLD using B-heavy Molasses as raw material and 8.0 MW Co-generation Power. If C-Heavy Molasses is used as raw material then the production capacity shall be 160 KLD.
3. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
4. The industry shall operate and maintain properly the 60 TPH boiler and ESP as per the conditions imposed in the CTE issued by the Board for the same.
5. Industry shall operate and maintain the installed APCS (ESP attached with the boiler of capacity 60 TPH) effectively and Stack monitoring report shall be submitted on quarterly basis.
6. Online Monitoring System shall be installed at the boiler and connected to CPCB and UPPCB server.
7. The industry shall operate and maintain the Air Pollution Control System efficiently and continuously so as to satisfy the prescribed emission standards.
8. The industry shall ensure to install adequate capacity CO₂ plant within 03 months.
9. The industry shall comply with the conditions of Environmental Clearance issued by MoEF & CC vide letter no J-11011/236/2018-IA-II(I) dated 05.11.2019.
10. The industry shall ensure compliance of conditions mentioned in the "No Increase in Pollution Load" certificate issued by the Board vide letter no. H 62112/C-5/L/NOC-1013/21 dated 04.06.2021.
11. Due to change in raw material from C-Heavy molasses to B-Heavy molasses based expansion of Ethanol production capacity from 160 KLD to 210 KLD shall result in "No Increase in Pollution Load" subject to the condition that the project is implemented strictly in accordance with the technical details submitted by the Project Proponent in the Board.
12. The Project Proponent shall submit the validation report for B-Heavy Molasses based 210 KLD Ethanol production from any reputed Institute such as NSI, Kanpur/VSI, Pune/any IIT within 03 months after starting B-Heavy molasses based operation.
13. If the validation report carried out by any reputed institute is same as claim made by the unit then the consent shall be valid otherwise stand automatically be revoked.
14. The unit shall restrict the spent wash storage capacity to 07 days only (B-Heavy molasses).
15. The unit should submit monthly data of following to UPPCB:
 - a. Fresh water consumption.
 - b. Ethanol Production.
 - c. Spent wash generation.
 - d. Slop generation.
 - e. Condensate generation.
 - f. Feed quantity of slop into incinerator.
 - g. Yeast sludge generation.
 - h. Boiler ash generation.
 - i. Quantity of granule generation and sold.
 - j. Quantity of Spent lees generation, recycle/reuse and treatment in CPU.
 - k. Quantity of effluent received into CPU, details of reuse/recycle etc.
 - l. Steam generation, fuel consumption.
 - m. CO₂ production.
16. The industry shall adhere to the ambient Air quality prescribed standards at all the time.

17. The unit shall develop green belt as per the Protocol attached with Board's office order H 16405 /220/2018/02 dated 16-2-2018, which is available on the Board's website- www.uppcb.com.
18. The ash generated from the Slop Boiler shall not be disposed off near any surface water body/pond/river/lake, etc.
19. Proposal for ash utilization shall be submitted to the Board within 02 months and the ash collected from the APCS shall be utilized accordingly.
20. Ash generated from boilers shall be stored in a safe place and proper arrangement of water sprinkling shall be done to suppress the dust particles.
21. The industry shall submit stack monitoring reports conducted by any NABL accredited laboratory within 15 days in the Board and after then on quarterly basis.
22. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
23. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.
24. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.
25. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
26. The industry shall ensure regular transmission of data of Continuous Online Emission Monitoring System for to the servers of CPCB and UPPCB. Industry shall submit regular stack monitoring report every month. The OCEMS shall be calibrated periodically.
27. The industry shall comply with the provisions of, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
28. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.
29. The consent shall be valid from the date of issuance of this certificate.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2021.08.18 11:22:48 +05'30'
Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

**Ref No. -
134026/UPPCB/Lucknow(UPPCBRO)/CTO/water/LUCKNOW/2021**

Dated : 18/08/2021

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
,LUCKNOW,262901
LUCKNOW

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent to M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical

Reference Application No :13106250

Dated :18/08/2021

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure ,in reference to their foresaid application .
2. This consent is valid for the period from 18/08/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2021.08.18 11:56:36 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar Agarwal Digitally signed by Pramod Kumar
Agarwal
Date: 2021.08.18 11:57:00 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.Balrampur Chini Mills Limited Unit Gularia Division Chemical vide

Consent Order No. 13106250/ Water

Dated : 18/08/2021

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of 160 KLD to 210 KLD Ethanol/RS/ENA/AA (If using C-Heavy Molasses as raw material the production capacity will be 160 KLD alcohol production).

2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	20.0 KLD	STP
2	Industrial	1218 KLD (ZLD)	ETP

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. It should be ensured that domestic effluent should not be discharged in storm water drain.

4(a) The domestic effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms.

Domestic Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	100 mg/l
2	BOD	30 mg/l
3	COD	250 mg/l
4	Oil & Grease	10 mg/l

5. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry.

6. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under the Environment (Protection) Act, 1986.

7. The industry shall not discharge any trade effluent outside the premises and Zero Liquid Discharge (ZLD) shall be maintained all the time.

8. Molasses shall not be stored in kachcha pits.

9. If UPPCB or CPCB issues closure order against the industry, this consent shall remain suspended for the period till closure order is revoked, after which the consent will be effective again for the remaining period.

10. The unit should be operated in such a way so that there is no adverse impact on public and environment.

11. Unit must maintain on line connectivity of mass flow meters at the inlet and outlet of MEE and web cameras installed at the final outlet, MEE and Bio Compost yard and connected with server of CPCB and UPPCB.

12. The unit shall ensure deployment of qualified staff for self monitoring mechanism on 24 X7 hours basis.

13. Volume of spent wash shall be reduced to 40 % minimum and solid concentration shall be maintained minimum 30% at the outlet of MEE.

14. Unit shall identify recipient drains/rivulets and their upstream & downstream locations in consultation with UPPCB and shall carry out monthly monitoring of identified recipient drains at upstream & downstream location through recognized lab under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis by 10th of every month to CPCB and UPPCB.

15. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity at any stage shall not exceed 07 days equivalent of production in case of incineration boiler and 30 days equivalent of production in case of bio composting.
16. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
17. Industry shall ensure to send monthly reports regarding spent wash storage and details of spent wash in each lagoon constructed in industry.
18. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. CTO (water) issued earlier vide letter no. 108580/UPPCB/Lucknow(LAB)/CTO/Water/Lucknow/2020 dated 05.12.2020 (validity upto 31.12.2022) for production of 160 KLD ENA/RSA/AA using Molasses as raw material is hereby revoked.
2. This consent is issued for the production of Ethanol/RS/ENA/AA 160 KLD to 210 KLD by using B-heavy Molasses as raw material and for 8 MW Co generation. If C-Heavy Molasses is used as raw material, then production capacity shall be 160 KLD of Alcohol.
3. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
4. The industry shall ensure to operate and maintain properly the MEE, CPU, digester and RO to ensure Zero Liquid Discharge; failing which, this consent order shall be treated as cancelled.
5. The industry shall comply with all other directions issued under the Water (Prevention and Control of Pollution) Act, 1974 stipulated by Central Pollution Control Board, New Delhi to ensure achievement of Zero Liquid Discharge positively.
6. The industry shall ensure to install adequate capacity CO₂ plant within 03 months.
7. The industry shall comply with the conditions of Environmental Clearance issued by MoEF & CC vide letter no J-11011/236/2018-IA-II(I) dated 05.11.2019.
8. The industry shall ensure compliance of conditions mentioned in the "No Increase in Pollution Load" certificate issued by the Board vide letter no. H 62112/C-5/L/NOC-1013/21 dated 04.06.2021.
9. Due to change in raw material from C-Heavy molasses to B-Heavy molasses based expansion of Ethanol production capacity from 160 KLD to 210 KLD shall result in "No Increase in Pollution Load" subject to the condition that the project is implemented strictly in accordance with the technical details submitted by the Project Proponent in the Board.
10. The Project Proponent shall submit the validation report for B-Heavy Molasses based 210 KLD Ethanol production from any reputed Institute such as NSI, Kanpur/VSI, Pune/any IIT within 03 months after starting B-Heavy molasses based operation.
11. If the validation report carried out by any reputed institute is same as claim made by the unit then the consent shall be valid otherwise stand automatically be revoked.
12. The unit shall restrict the spent wash storage capacity to 07 days only (B-Heavy molasses).
13. The unit should submit monthly data of following to UPPCB:
 - a. Fresh water consumption.
 - b. Ethanol Production.
 - c. Spent wash generation.
 - d. Slop generation.
 - e. Condensate generation.
 - f. Feed quantity of slop into incinerator.
 - g. Yeast sludge generation.
 - h. Boiler ash generation.
 - i. Quantity of granule generation and sold.
 - j. Quantity of Spent lees generation, recycle/reuse and treatment in CPU.
 - k. Quantity of effluent received into CPU, details of reuse/recycle etc.
 - l. Steam generation, fuel consumption.
 - m. CO₂ production.
14. Industry shall operate and maintain measuring devices (water/flow meters) at required location (raw water consumption, solid separation system: feed, permeate and reject, evaporation concentration systems: feed concentrate and condensate, water reused in the process & concentrate utilized in drying system/equivalent technology) to record the water balance shortly without delay.
15. Industry shall install web cameras at each strategic location such as MEE, spent wash storage lagoon and CPU etc. for monitoring purpose and provide its URL & ID to the Board within a month.

16. Industry shall operate and maintain the effluent treatment system effectively and regularly. All the effluent treatment system shall be kept in good running condition all the time and failure (if any), shall be immediately rectified without delay otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Industry shall not discharge any treated / untreated effluent in to the river or any surface water bodies. No effluent shall be discharged outside of the factory premises in any circumstances; hence zero discharge condition shall be maintained at all the time.

17. Industry shall make proper arrangement for safe and scientific handling, storage, transportation and disposal of all solid wastes, sludge etc. generated.

18. Spent wash generation, storage shall be done as per the guidelines of CPCB.

19. Measuring system for spent wash storage shall be installed.

20. The industry shall submit ground water quality analysis report of the nearby areas on quarterly basis in coordination with UPPCB.

21. The PP shall obtain NOC from UP Ground Water Department for abstraction of ground water within 03 months and submit in the Board, failing for which CTO will automatically be stand revoked.

22. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.

23. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.

24. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.

25. The industry shall comply with the Plastic Waste Rules, 2016.

26. The industry shall submit on site disaster management plant.

27. The industry shall provide copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter reading connected with CPCB server etc. on monthly basis (by 10th of every month) to CPCB/UPPCB.

28. The industry shall provide adequate arrangement for control of odour nuisance. All internal roads shall be made pucca. Industry shall maintain good housekeeping within factory premises, around effluent treatment facilities etc.

29. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.

30. Analysis report from recognized laboratory for solid concentration at inlet and outlet of MEE should be submitted to the Board within one month from the date of issue of this certificate.

31. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

32. This consent will be valid from the date of issuance of this certificate.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD

TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226010

Ref. No : 11713/UPPCB/Lucknow(UPPCBRO)/HWM/LAKHIMPUR KHIRI/2020 Dated: 04/05/2020

To,

M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical
VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901 (U.P), LAKHIMPUR KHIRI, 262901

Tehsil : Gola Gokaran Nath

District : LAKHIMPUR KHIRI

Sub :- Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1. Number of authorization and date of issue 11713 and 04/05/2020 .
2. Reference of application (No. and date) 8280049 and 17/03/2020 .
3. Mr NK AGARWAL of M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, utilization, storage and disposal or any other use of hazardous or other wastes or both on the premises situated at VILL. RUDRAPUR GULARIA, NAUSAR GULARIA, LAKHIMPUR- .

Details of Authorisation

S No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing, etc.	Quantity (ton/annum)
1	Sch-1, Cat.-5.1 (Used/Waste Oil)	TSDF	9.0 MT/Annum

1. The authorization shall be valid for a period of 05/05/2024 from the date of issue of this letter .
2. The authorization is subject to the following general and specific conditions (please specify any conditions that need to be imposed over and above general conditions, if any) .

A General Conditions of Authorization -

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under .
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Board .
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization .
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation .
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time .

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and penalty .
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility .
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation .
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained .
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation .
11. The importer or exporter shall bear the cost of Import or export and mitigation of damages if any
12. An application for the renewal of an authorisation shall be made as laid down under these Rules .
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Changes or Central Pollution Control Board from time to time .
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year .

B Specific Conditions of Authorization

1. The authorization shall be valid for a period of Five Years from the date of issue, if not suspended or cancelled earlier.
2. The wastes must be safely collected in leak proof containers and shall be duly marked in a manner suitable for handling, storage and transport and the packaging shall be easily visible and be able to withstand physical conditions and climatic factors. All hazardous waste containers / bags shall be provided with a general label. The storage area should be at an isolated spot in the premises and must be fenced, covered and duly marked.
3. The authorized person/agency shall ensure that no adverse impact on the air, soil and water including groundwater takes place due to activities for which authorization has been requested. Comprehensive safety measures must be followed in handling of wastes and the staff must be properly trained.
4. It is brought to your notice that as per the order dated 14-11-2003 passed by the Hon'ble Supreme Court in W.P. (c) No. 657 of 1995, no industry covered under Hazardous and other Wastes (Management and Tran boundary Movement) Rules, 2016 shall be allowed to operate without valid authorization. It is also provided in the same orders that industries which are not complying with the conditions of authorization shall not be allowed to operate. Hence in case you fail to apply for authorization, before its expiry or fail to comply with conditions of the earlier authorization issued to you, closure order shall be issued against your industry without any further notice.
5. The applicant must file returns on prescribed Form- 4 along with a compliance report of this letter and should also maintain records on Form 3 and present it to Board's inspecting officials.

6. In case of occurrence of an accident, complete details on form must be sent to U.P. Pollution Control Board at the earliest along with details of mitigative and remedial measures taken.
7. The authorized person/agency shall not receive, collect, or store any hazardous waste from any unauthorized occupier or generator of hazardous wastes. In case any hazardous wastes is sold to any other reprocessing unit it must be ensured that such unit is fully complying with environmental requirements and has a valid authorization of the Board.
8. In no case any hazardous wastes shall be disposed off on land, in any drain or stream. All spillages of hazardous chemicals, used containers, of hazardous chemicals such as flammable corrosive, explosive and toxic nature must be safely collected and stored. Non-compatible wastes must be suitably and safely handled.
9. It is within the powers and functions of the U.P. Pollution Control Board to modify / revoke the terms and conditions of the authorization/Registration issued under the Rule – 7 of Hazardous and Other Wastes (Management and Tran boundary Movement) Rules, 2016.
10. You are directed to display on-line data/display board outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises. Necessary compliance should be sent within 15 days of receipt of this letter.
11. It is the mandatory duty of the authorized person/agency to comply with the guidelines for transportation of hazardous waste in accordance with rule 18 of Hazardous and Other Waste (Management and Tran boundary Movement) Rules, 2016.
12. It should be ensured that hazardous wastes shall be properly collected and packed in HDPE bags and then temporarily stored in a lined RCC tank/pit with suitable shed.
13. An ETP sludge test report of a laboratory approved under E.P. Act shall be submitted along with compliance of this letter of this office.
14. Used oil shall be sold only to recyclers registered with U.P. Pollution Control Board. The record shall be maintained.
15. The occupier, transporter and operator of a facility shall be liable for damages caused to the environment resulting due to improper handling and disposal of hazardous waste listed in schedule 1,2, and 3 and shall be liable to pay a fine as levied by the State Pollution Control Board under the rules.
16. Details of raw material (which is Hazardous waste) and product along with quantity shall be sent within a month.
17. You shall become the member of any common TSDF for S.L.F. which has been authorized by UPPCB and send the stored hazardous wastes for final disposal to the TSDF and report back to U.P.P.C.B. with the required manifesto (document of proof) within one/three month of this letter.
18. The unit shall ensure that H.W. is regularly sent to Authorized common TSDF and shall not store

for more than 90 days in accordance with under rule 8 of HOWM Rules, 2016.

19. Emission from the Common/Captive incinerator stack shall meet the prescribed standards under Environmental Protection Act. 1986.

20. Copies of Hazardous Waste Manifest in Form-10 shall be sent regularly to UPPCB for each category of waste sent to TSDF/Incinerator.

21. This authorization/Registration is valid till the industry is having valid consent as per the provisions of Air(Prevention and Control of Pollution) Act 1981 and Water (Prevention and Control of Pollution) Act, 1974.

22. Industry shall comply the provisions of EP Act, 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended and E-waste (Management and Handling) Rules, 2016.

23. The industry shall ensure renewal of agreement from TSDF before expiry date.

24. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

(Authorized Signatory)
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:07:38 +05'30'

Pramod Kumar Agarwal

UTTAR PRADESH POLLUTION CONTROL BOARD

Copy to: To the Regional Officer, U.P.Pollution Control Board, Regional Officer, ROUPPCB,
Lucknow. for information and necessary action .

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:09:58 +05'30'

CEO/EE, I/C Circle _____

Annexure-3

TEST REPORTS

**SIX MONTHLY
COMPLIANCE REPORT
(April, 2022 to September, 2022)**

Ambient Air : September, 2022
Stack Monitoring : September, 2022
Noise Monitoring : September, 2022
Ground Water : April, 2022 to September, 2022
Soil Quality : September, 2022

of

M/s Balrampur Chini Mills Limited
Unit: Gularia, Division: Chemical
Village: Gularia, P.O.: Nausar Gularia
Tehsil: Golagokarannath
District: Lakhimpur Kheri
Uttar Pradesh - 262901



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/261, Vishwas Khand, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etrclth.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986

ETRC/PM14/TE3-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/6136/2022	Date of Report: 11.04.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	06/04/2022	7	Analysis Start Date	06/04/2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	10/04/2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	392.4	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-6640 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	80.92	2.0 - 800	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	27.21	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	28.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F ⁻ C	0.34	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	46	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	31.2	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	292.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	264.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/261, Vishwas Khand, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etrindia.com

ISO 9001:2016, ISO 14001 : 2016, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986


Test Report Ref No.: ETRC/EPA/6136/2022

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.14	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.02	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.62	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

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Lab-Incharge




Authorized Signatory
(Ritu Garg)
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ETRC/PM14/TE5-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/0304/2022	Date of Report: 14/05/2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularfa, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	09/05/2022	7	Analysis Start Date	09/05/2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	13/05/2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	412.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	64.60	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	32.07	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	22.02	2.0 - 2000	260	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1988 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1988 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	34.0	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	272.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/6364/2022

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.14	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.02	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.28	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.06	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

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Lab-Incharge




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(Ritu Garg)
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ETRC/PM14/TEST-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/6503/2022	Date of Report: 18.06.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kharai (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	11/06/2022	7	Analysis Start Date	11/06/2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	17/06/2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	422.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5- 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.31	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	32.07	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	20.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.34	0.02 -5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001- 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	38.02	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	316.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	280.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015-5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.11	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.02	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.78	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

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TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/6662/2022	Date of Report: 14/07/2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	08/07/2022	7	Analysis Start Date	08/07/2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	13/07/2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3026 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3026 (Part-16): 1984 Reaffirmed: 2017	408.2	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5- 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	57.71	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3600 Mg, B	32.07	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	18.01	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.32	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001- 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	30.8	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	284.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	276.0	5.0 - 600	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015-5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.07	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.01	0.02- 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.88	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 -5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/ 100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/ 100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

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TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/1208/10496/2022	Date of Report: 12.08.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	07/08/2022	7	Analysis Start Date	07/08/2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	11/08/2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	424.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5- 10	0.6	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.31	2.0 - 800	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.99	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	28.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.44	0.02 -5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	22.64	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	312.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	292.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015-5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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Test Report Ref No.: ETRC/1208/10496/2022

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.10	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.03	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.62	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 -5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

..... END OF REPORT.....

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ETRC/PM14/TEST-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/2409/10487/2022		Date of Report: 24.09.2022	
Name /Address/Type of Industry		M/s Baframpur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	57	57
(d)	Average ambient temperature (°C)	27	27
(e)	Time of Sampling Started (Hours)	09:40 am (19.09.2022)	09:40 am (19.09.2022)
(f)	Time of Sampling completed (Hours)	09:38 am (20.09.2022)	09:38 am (20.09.2022)
(g)	Total time of sampling (minutes)	24 hour (1438 minutes)	24 hour (1438 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.167	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1678.14	• 23.724
	• GAS (liter)	• 719.0	

TEST RESULT

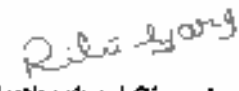
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2008
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m ³	84.23	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24) : 2019	µg/m ³	50.86	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	12.50	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	24.24	6.0 - 750	For 24 hour =80

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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/2409/10499/2022		Date of Report: 24.09.2022	
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Boiler House	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	57	57
(d)	Average ambient temperature (°C)	27	27
(e)	Time of Sampling Started (Hours)	09:52 am (19.09.2022)	09:52 am (19.09.2022)
(f)	Time of Sampling completed (Hours)	09:51 am (20.09.2022)	09:51 am (20.09.2022)
(g)	Total time of sampling (minutes)	24 hour (1439 minutes)	24 hour (1419 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.169	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1680.75	• 23.667
	• GAS (l/hr)	• 719.5	

TEST RESULT

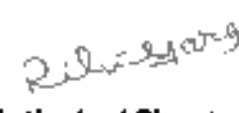
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	62.8	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	48.80	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.48	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	22.84	6.0 - 750	For 24 hour =80

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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/2409/10499/2022		Date of Report: 24.09.2022	
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Gularia	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	57	57
(d)	Average ambient temperature (°C)	28	28
(e)	Time of Sampling Started (Hours)	09:44 am (20.09.2022)	09:44 am (20.09.2022)
(f)	Time of Sampling completed (Hours)	09:38 am (21.09.2022)	09:38 am (21.09.2022)
(g)	Total time of sampling (minutes)	24 hour (1434 minutes)	24 hour (1434 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.166	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED • PM (m ³) • GAS (liter)	• 1672.044 • 717	• 23,749

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	92.4	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	46.82	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.18	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	21.92	8.0 - 750	For 24 hour =80

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ETRC/PM14/TE5-REP/FT/36

TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT

Test Report Ref No.: ETRC/2409/10500/2022		Date of Report: 24.09.2022
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
1. (a)	Date of monitoring	21.09.2022
(b)	Stack material	RCC
(c)	Height of stack from ground level	80 mts
(d)	Source to which stack attached	Boller
(e)	No of Source attached with capacity	01 No., 60 TPH
(f)	Type of fuel used	Slop + Bagasse
(g)	Details of APCS installed	ESP
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	28.0
(b)	Stack gas temperature (°C)	157.0
(c)	Stack gas velocity (m/sec)	12.29
(d)	Flow rate (LPM)	17
(e)	Sampling time (minutes)	62
(f)	Volume of air sampled (liters)	1054

TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing/ Limit of Detection
1	Particulate Matter (PM)	mg/Nm ³	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	48.2	2.0 - 1000
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS: 11255 (Part-2): 1985 Reaffirmed: 2014	34.6	1.0 - 2000
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	IS: 11255 (Part-1): 2006 Reaffirmed: 2017	54.8	2.0 - 1000
4	Carbon Dioxide (CO ₂)	%	ETRC/LABSOPA/11: 2015	10.4	0.1 - 20
5	Carbon Monoxide (CO)	%	ETRC/LABSOPA/13: 2015	0.48	0.01 - 5.0

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TEST REPORT AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No.: ETRC/2409/10501/2022		Date of Report: 24.09.2022
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
(a)	Date of monitoring	20/09/2022 (8:00 AM) to 21/09/2022 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Sampling Location	Within Plant Premises
(d)	Environmental Condition	Normal

TEST RESULT

Ambient Noise Level				
Sr. No.	Parameter	Unit	Results	Results
			DAY TIME (8:00 AM - 10:00 PM)	NIGHT TIME (10:00 PM - 6:00 AM)
1	Equivalent sound level	dB(A)	60.28	52.67

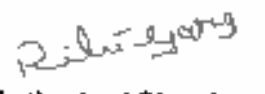
Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/2409/10502/2022	Date of Report: 24.09.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	6	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	8	Sample Collected By	ETRC Lucknow
3	Sample received date	21.09.2022	7	Analysis Start Date	21.09.2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	24.09.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	6 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	428.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	57.71	2.0 - 500	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.02	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	32.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.46	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-6530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	26.0	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	298.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	284.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986


Test Report Ref No.: ETRC/2409/10502/2022

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.06	0.06 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.06	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.84	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL-Below Detection Limit

..... END OF REPORT.....

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that the data reflects our best attempt to generate accurate results for the sample mentioned in the report as above
- The result relate only to the items tested.
- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results and/or the performance of the equipment contributing to the results
- All disputes subject to Lucknow jurisdiction
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing
- Complaint register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/281, Vishwas Khand, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etrclth.com

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An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA, 1986

ETRC/PM14/TEs-REP/FT/38

TEST REPORT SOIL ANALYSIS

Test Report Ref No.: ETRC/2409/10503/2022	Date of Report: 24.09.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Sampling Location	Near CPU	5	Packing Condition	Sealed
2	Sample Description	Soil Sample	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	21.09.2022	7	Analysis Start Date	21.09.2022
4	Sample Quantity	1.0 Kg	8	Analysis End Date	24.09.2022

TEST REPORT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.3	1 - 14
2	Electrical Conductivity	$\mu\text{mho/cm}$	IS: 14767: 2000 Reaffirmed: 2016	278	1 - 40000
3	Molsture content	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2015	2.24	1.0 - 50
4	Sulphur	Kg/Hec	IS :14885: 1999 Reaffirmed: 2014	12.08	5.0 - 100
5	Boron as B	mg/kg	ETRC/ LABSOPS/06	BDL	4.0 - 100
6	Copper as Cu	mg/kg	ETRC/ LABSOPS/07	0.38	0.3 - 500
7	Zinc as Zn	mg/kg	ETRC/ LABSOPS/08	2.12	1.0 - 500
8	Iron as Fe	mg/kg	ETRC/ LABSOPS/09	22.12	5.0 - 500
9	Manganese as Mn	mg/kg	ETRC/ LABSOPS/10	12.4	6.0 - 500

BDL = Below Detection Limits

..... END OF REPORT.....

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that the data reflects our best attempt to generate accurate results for the sample mentioned in the report as above.
- The result relate only to the items tested.
- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results and/or the performance of the equipment contributing to the results.
- All disputes subject to Lucknow jurisdiction.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Complain register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM

Annexure-4

Ground Water NOC from UPGWD



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (E)

[See rules 15(2)]

(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)

VALID UP TO : 08/07/2026

Registration No.: 202105000150			
Name of the Owner	NIRMAL KUMAR AGARWAL		
Address of the Applicant	Balrampur Chini Mills Ltd.Unit-Gularia,Division-Chemical VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901U.P	Application Form Serial No.	LMPK0521RIN0028
Date of Submission	15/05/2021	Specimen Signature	
Company Name	Balrampur Chini Mills Ltd UnitGularia Div. Chem.	Company Address	Vill Gularia P.O. Nausar Gularia Distt. Lakhimpur
Location Particulars			
District	Lakhimpur Kheri	Block	BIJUA
Plot No./Khasra No.	LAND DETAILS ENCLOSED.	Municipality/Corporation	Yes
Ward No./Holding No.			LAND DETAILS ENCLOSED.
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/05/2019		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	130.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	25.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	140.00
Date of Energization (In Case of Electric Pump)		01/01/2020	
Maximum Allowable Rate of Withdrawal (m3/hr.):	140.00	Maximum Allowable Running Hours Per Day:	3.00
Maximum Allowable Annual Extraction of Ground Water:			151200
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Date of expiry of CGWA NOC is 27 May 2021		
Against Case			
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (3) for extraction of ground water			

at a rate not exceeding that as shown at Sl. (3j), for running hours 1 day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters(conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) n case, any of the particulars l information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
 - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4” to 6”.
 - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
 - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site-specific requirement regarding safety and access for measurement may be taken care off.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars l information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.

- iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
- iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 15 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
- v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
- vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
- vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

This certificate is electronically generated and does not require digital signature



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (E)

[See rules 15(2)]

(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)

VALID UP TO : 08/07/2026

Registration No.: 202105000152			
Name of the Owner	NIRMAL KUMAR AGARWAL		
Address of the Applicant	Balrampur Chini Mills Ltd.Unit-Gularia,Division-Chemical VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901U.P	Application Form Serial No.	LMPK0521RIN0029
Date of Submission	15/05/2021	Specimen Signature	
Company Name	Balrampur Chini Mills Ltd Unit Gularia Div. Chem.	Company Address	Vill Gularia P.O. Nausar Gularia Distt. Lakhimpur
Location Particulars			
District	Lakhimpur Kheri	Block	BIJUA
Plot No./Khasra No.	LAND DETAILS ENCLOSED.	Municipality/Corporation	Yes
Ward No./Holding No.			LAND DETAILS ENCLOSED.
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/05/2019		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	130.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	25.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	140.00
Date of Energization (In Case of Electric Pump)	01/01/2020		
Maximum Allowable Rate of Withdrawal (m3/hr.):	140.00	Maximum Allowable Running Hours Per Day:	4.00
Maximum Allowable Annual Extraction of Ground Water:			201600
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Date of expiry CGWA NOC is 27 May 2021		
Against Case			
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (3) for extraction of ground water			

at a rate not exceeding that as shown at Sl. (3j), for running hours 1 day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

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- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
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- (7) In case, any of the particulars or information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
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 - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
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- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
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- Any other site-specific requirement regarding safety and access for measurement may be taken care off.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars or information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
 - (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.

- iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
- iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 15 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
- v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
- vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
- vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

This certificate is electronically generated and does not require digital signature

Annexure-5

Photographs of Plants & Green Belt



Pic :- 1 RCC Stack (Height -80mtr) alongwith Online Dust Monitoring System



Pic :- 2 Multi-effect Evaporator



Pic :- 3 Slop fired Boiler alongwith ESP (Incineration Boiler)



Pic :- 4 CPU (UASBR)



Pic :-5 RO Plant



Pic :- 6 Aerial View of CPU/ERP Plant



Pic-7 Mass Flow Meter Inlet/Outlet Of MEE Plant



Pic-8 Two Nos. Of Web Camera at Spent wash Storage Lagoon & MEE/Incineration Area



Pic -9 Green Belt at CPU Area



Pic-10 Green Belt at fermentation area



Pic-11 Green Belt at Distillation Area



Pic-12 Green Belt at spent wash Storage area



Pic-13 Green Belt at spent wash Storage area



Pic-14 Green Belt at Distillation Area



Pic-15 Co₂ Plant



Pic-16 Plantation of Plants



Pic-17 Plantation of Plants



Pic-18 Plantation of Plants

Annexure-6

Office Memorandum from MoEF&CC

F.No.22-65/2017-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan
Jor Bagh Road, Aligarj
New Delhi - 110003
e-mail: sharath.kr@gov.in

Dated: 30th September, 2020

Office Memorandum

Sub: Deliberation on the commitments made by project proponent and requirements to address the concerned raised during the public consultation and prescribe as specific condition(s) while recommending the proposal, for prior environment clearance, in physical terms in lieu of Corporate Environment Responsibility (CER) – regarding.

This is in supersession of the OM of even number dated 1st May, 2018, regarding guidelines in respect of Corporate Environment Responsibility. Ministry is in receipt of several representations regarding imposition of certain percentage of project cost or expansion cost as Corporate Environment Responsibility. Further, the said OM was also challenged before the Hon'ble High Court of Delhi in WP(C) No. 13252/2019 in the matter of CREDAI, NCR Versus Union of India and Ors.

The matter has since been examined in the Ministry and it is hereby decided that henceforth the Expert Appraisal Committee or State Level Expert Appraisal Committee shall deliberate on the commitments made by the project proponent to address the concerns raised during the public consultation and prescribe specific condition(s) in physical terms while recommending the proposal, for grant of prior environment clearance instead of allocation of funds under Corporate Environment Responsibility.

Further, it is directed that all the activities proposed by the project proponent or prescribed by the Expert Appraisal Committee or State Level Expert Appraisal Committee, as the case may be, shall be part of the Environment Management Plan.

This issues with the approval of competent authority.


(Sharath Kumar Palleria)
Scientist 'F'/Director (IA-Policy)

To,

1. Chairman and Member Secretary of Central Pollution Control Board

2. Chairpersons and Members of all the Expert Appraisal Committees
3. Chairpersons and Member Secretaries of all the SEIAA/SEACs
4. Chairpersons and Member Secretaries of all SPCBs/UTPCCs
5. Member Secretaries of all the Expert Appraisal Committees
6. All the officers of IA Division

Copy for information to:

1. PS to Minister for Environment, Forest and Climate Change
2. PS to MoS for Environment, Forest and Climate Change
3. PPS to Secretary (EF&CC)
4. PPS to AS(RA) / AS(RSP)
5. PPS to JS(GM) / JS(AKN)/JS(SKE)
6. Website, MoEF&CC
7. Guard File.

Sherath
20/9/2020
[Sherath Kumar Pallerla]
Scientist 'F'/Director (IA-Policy)

BALRAMPUR CHINI MILLS LIMITED:UNIT-GULARIA

Activities done under CER (Corporate Environment Responsibility) pertaining to Gularia Distillery Project

Years --->		Year 1 2020-21		Year 2 2021-22		Year 3 2022-23	
Sl No	Activity	Village name	Amount (Rs.Lakhs)	Village name	Amount (Rs.Lakhs)	Village name	Amount (Rs. Lakhs)
1	Solar infrastructure support including roof top solar plants, inverters, transformers and various other solar projects in villages	List to Villages as per Annexure-1	35.00	List to Villages as per Annexure-1	50.00	List of village will be decided after completion of project 2020-21 and 2021-2022	90.00
2	Plantation of trees on large scale	List of Village and School as per annexure-2	3.00	List of Village and School as per annexure-2	12.50	List of village and school will be decided after completion of project 2020-21 and 2021-2022	-
3	Hand Lamp Distribution for Study in School	Handlamp Distribution in 05 Villages School	2.00	Handlamp Distribution in 05 Villages School		Handlamp Distribution in 05 Villages School	-
3	Existing Water bodies rejuvenation and Charging Pit development	Bijua Block & 10 km radius-Annexure-3		Bijua Block & 10 km radius-Annexure-3	15.50	Bijua Block & 10 km radius-Annexure-3	20.00
4	Water conservation projects (Development of new Pounds and Cleaning etc)	As per Annexure-4; One more project will be allotted by Govt as work started and project approved	18.50	Next Project will be allotted by govt after completion of project	30.00	Next Project will be allotted by govt after completion of project	-
5	Development of Bijua Sub Delivery center- Permanent Infrastructure and Hospital equipments	Bijua Block Hospital- Hospital Buidling, Toilet & Water Supply,RO, Water Cooler, Dustbin, Treatment Equipement etc	20.00	Bijua Block Hospital- Hospital Buidling, Toilet & Water Supply,RO, Water Cooler, Dustbin, Treatment Equipement etc	50.50	Bijua Block Hospital- Hospital Buidling, Toilet & Water Supply,RO, Water Cooler, Dustbin, Treatment Equipement etc	60.00
5	Development of Schools & Hospital's parks and other Infrastrucure supprots like plastering, pictorial colouring , sports kit, science kit, library for smart classes	10 Km radius Schools + CHC + PHC etc As per Annexure-5	21.50	10 Km Schools + CHC+ PHC etc As per Annexure-5	50.00	10 Km Schools + CHC+ PHC etc As per Annexure-5	40.00
6	Toilet facility	10 Km Radius villages- CHC Bijua		10 Km Radius villages- Bijua Block Panhayat Bhawan	16.00	10 Km Radius villages- Bijua Block Panhayat Bhawan	35.00
7	Solid waste management. (Project is not success in Village area)						
8	Biogas project (Due to Ujawala Bio Gas project is not advised by Govt authority)						
9	Other Infrastructure Projects				30.00		
10	Animal Welfare						20.00
11	Drinking Water						15.00
12	Women Empowerment/ Old age Home						20.00
	Total Expenditure		99.29		253.09		32.32

Annexure-7

Medical Health Records of Employees

Ref.No. GCM/Medical/2021-22/

Date- 07-09-2022

CERTIFICATE

The health check-up program of all Officers and Employees of Distillery Division is organized by the Company in the factory campus. We have under taken medical check-up of Officers and workers of the company and no occupational disease were found.

**For Balrampur Chini Mills Ltd.,
Unit-Gularia, Division-Chemical**


Sr. Medical Officer

Encl- List Attached.

Dr. V. P. Singh
Medical Officer
Balrampur Chini Mills Ltd.
Unit-Gularia

EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 07/09/202

SR ID	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS									REPORT	
				BP (mm Hg)	PULSE (PER MIN)	Spo2 (%)	WEIGHT (KG.)	HEIGHT (CM)	CHEST	HEP. (B)	ABDOMEN	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
1	Vinod Kumar Mishra	Sri. Lal lan Mishra	Asst. Gen. Man.	120/84	74	98	72	173	Clear	-ve	Soft	94	✓	
1	Ratishresh Chandra	Sri. Ram Chandrak	Asst. Manager	130/90	116	97	135	179	Clear	-ve	Soft	90	✓	
1	Pravin Kumar Yadav	Sri. Ram Dhan Yadav	Sr. Typist	118/80	92	97	75	164	Clear	-ve	Soft	110	✓	
1	Ajeet K. Srivastava	Sri. X. N. Srivastava	Sr. officer	120/80	74	99	78	172	Clear	-ve	Soft	258	✓	
1	Subham Shukla	Sri. Sanjay K. Shukla	Microbiologist	110/70	86	97	80	165	Clear	-ve	Soft	81	✓	
1	Rajeev Kaushik	Sri. Ved Prakash Sharma	Asst. Manager	130/90	76	97	87	166	Clear	-ve	Soft	83	✓	
1	Dharmendra Nath Pandey	Sri. Ram Narayan Pandey	Asst. Manager	119/80	78	96	83	176	Clear	-ve	Soft	94	✓	
2	Pradeep K. Pandey	Sri. Surya Pal Pandey	Asst. Manager	110/80	90	98	80	167	Clear	-ve	Soft	110		
1	Ranaj Kumar Pandey	Sri. Om Prakash	officer	130/110	96	99	68	160	Clear	-ve	Soft	94	✓	
2	Subhita Roy	Sri. Santanu Roy	Asst. Chemist	120/80	100	98	87	173	Clear	-ve	Soft	114	✓	
1	Chandra Shekhar Singh	Sri. Kashinath Singh	Sr. CPU Chemist	120/84	82	97	63	172	Clear	-ve	Soft	103	✓	
2	Pradeep K. Bajpai	Sri. Umari Chandra	GPU Chemist	114/74	86	98	75	172	Clear	-ve	Soft	108	✓	
3	Harpal Singh	Sri. Prasan Singh	GPU Chemist	114/80	82	97	80	170	Clear	-ve	Soft	121	✓	

Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia

MEDICAL OFFICER

EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 07/09/2022

NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS									REPORT	
				BP (mm Hg)	PULSE (PER MIN)	SpO2 (%)	WEIGHT (KG.)	HEIGHT (CM)	CHEST	HEP. (R)	ABDOMEN	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
7	Amit Kumar	Sri Anil K. Gupta	Asst Manager	110/74	86	97	71	175	Clear	-ve	Soft	115	✓	
5	P. Sathish Kumar	Sri T.K. Palanisamy	Sr Eng.	112/70	70	99	63	169	Clear		Soft	89	✓	
1	Suresh Kumar	Sri Heera Singh	D.C.S Eng.	112/70	84	99	78	172	Clear	-ve	Soft	106	✓	
1	Vikash Kumar Mawaya	Sri Sri Ram	Terbin-opente	118/84	76	99	75	170	Clear	-ve	Soft	116	✓	
2	Subhash Kumar	Sri Nand Kishor Singh	Terbin-opente	110/80	88	99	70	168	Clear	-ve	Soft	113	✓	
1	Lipendra Kumar Shahi	Sri Ram Mahesh Lal	Terbin-opente	120/80	96	98	78	173	Clear	-ve	Soft	120	✓	
2	Vasundra Kustamba	Sri Mishai Kustamb	TBR welder	100/70	77	99	58	163	Clear	-ve	Soft	103	✓	
1	Vipin Kumar	Sri Buddhu Singh	Dipman/Cl	100/70	60	98	68	155	Clear	-ve	Soft	89	✓	
2	Mohammad Asif	Sri Mohammad Harsh	Dipman	100/70	70	96	55	164	Clear	-ve	Soft	83	✓	
3	Ram Babu Sharma	Sri Laxmi Thakur	Head Fitter	124/90	94	97	66	168	Clear	-ve	Soft	388		
7	Anupam Singh	Sri S. S. Babadur Singh	Fitter/H.Drain	100/70	90	96	62	168	Clear	-ve	Soft	111	✓	
5	Prabin Kumar Thakur	Sri A.K. Thakur	Sr Dist. opente	114/80	84	98	65	164	Clear	-ve	Soft	97	✓	
6	Mubesh Chandra Gupta	Sri A.P. Gupta	Sr Dist.opente	130/80	100	97	81	163	Clear	-ve	Soft	107	✓	

Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia

MEDICAL OFFICER

EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 07/09/2022

Sl. No.	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS								REPORT		
				BP (mm Hg)	PULSE (PER MIN)	Spo2 (N)	WEIGHT (KG.)	HEIGHT (CM)	CHEST	HEP. (B)	ABDOMEN	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
2	Harish Singh	Sri Ram Singh	Sr. Dist. operator	110/70	80	98	68	167	Clear	-ve	Soft	94	✓	
3	Nimlesh Kumar	Sri Bal Ram Singh	Esom. operator	118/82	70	99	63	166	Clear	-ve	Soft	77	✓	
7	Amarjeet Yadav	Sri Lallan P. Yadav	Sr. E. operator	110/70	78	99	72	168	Clear	-ve	Soft	92	✓	
2	Arun K. Kumar Tiwari	Sri S. K. Tiwari	Sr. MEE operator	118/80	90	99	69	169	Clear	-ve	Soft	119	✓	
1	Kuman Kumar Meena	Sri Rajkishan Meena	Sr. MEE operator	120/82	86	98	92	178	Clear	-ve	Soft	97	✓	
2	Arun Kumar Mishra	Sri Ramyan Mishra	MEE operator	105/70	74	97	70	174	Clear	-ve	Soft	83	✓	
3	Ajay Kumar Singh Gantner	Sri Shiv Prasad Singh	Sr. Electrician	114/80	90	96	63	165	Clear	-ve	Soft	96	✓	
7	Ramesh K. Kumar	Sri Surendra Mishra	Sr. Electrician	119/70	84	98	68	171	Clear	-ve	Soft	121	✓	
5	Abhimanyu K. Tiwari	Sri Narendra K. Tiwari	Inst. Technician	118/80	100	97	74	165	Clear	-ve	Soft	74	✓	
5	Ranjit Kumar Yadav	Sri Ramnand Yadav	Electrician	112/70	84	99	65	164	Clear	-ve	Soft	94	✓	
7	Santosh Kumar Vishwakarma	Sri G. P. Vishwakarma	Electrician	110/70	88	97	66	161	Clear	-ve	Soft	83	✓	
3	Pratiksha D. Jaiswal	Sri Manjilal Jaiswal	Sr. Fitter	120/80	72	99	72	164	Clear	-ve	Soft	93	✓	
7	Niraj K. Singh	Sri Mukhlal Singh	Fitter	100/70	82	97	52	166	Clear	-ve	Soft	89	✓	

Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia

MEDICAL OFFICER

EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 07/09/2022

NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS								REPORT		
			BP (mm Hg)	PULSE (PER MIN)	Spo2 (%)	WEIGHT (KG.)	HEIGHT (CM)	CHEST	HEP. (B)	ABDOMEN	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
1. Titendra Kumar	Sri Umashankar Pandey	Fitter	110/70	68	99	64	158	Clear	-ve	Soft	111	✓	
2. Dhnanjay Sharma	Sri Raghunath Sharma	Fitter	110/70	72	96	55	157	Clear	-ve	Soft	98	✓	
1. Rachit Gupta	Sri P. K. Gupta	Pump Operator	110/72	100	96	86	170	Clear	-ve	Soft	85	✓	
1. Dhruvendra Kr. Dixit	Sri Ved Prakash Dixit	Pump Operator	120/80	100	99	70	182	Clear	-ve	Soft	79	✓	
1. Ajay Yadav	Sri Ramkrishn Yadav	Pump Operator	110/70	72	97	58	162	Clear	-ve	Soft	89	✓	
1. Badari Narayan Sharma	Sri Ranchooj Sharma	Sn. Int. Tech.	120/80	86	98	54	162	Clear	-ve	Soft	120	✓	
5. Lal Bhadran	Sri. Harish Bhadran	Fitter	118/80	78	97	69	169	Clear	-ve	Soft	85	✓	
7. Nitin Kumar Singh	Sri Anup Kumar Singh	Tram. Eng.	120/84	76	99	65	171	Clear	-ve	Soft	91	✓	
1. Nishu Shukla	Sri C. S. Shukla	Grnd. Trainee	110/74	112	96	140	190	Clear	-ve	Soft	103	✓	
1. Sunil	Sri Bali Ram	Trub. Technician	100/70	98	100	62	165	Clear	-ve	Soft	115	✓	
3. Chandan Kr. Yadav	Sri Ran. Kripal Yadav	Head Trub. Tech.	118/80	86	98	67	166	Clear		Soft	74	✓	
1. Ankur Kaushik	Sri Raktash Kr. Kaushik	Electric/Eng.	130/90	96	99	75	168	Clear	-ve	Soft	96	✓	
2. Abid Hasan	Sri Abhtan Hasan	Manager P.P.	130/80	66	99	91	180	Clear	-ve	Soft	98	✓	


 Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia
MEDICAL OFFICER

EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 07/09/2022

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS									REPORT	
				BP (mm Hg)	PULSE (PER MIN)	Spo2 (%)	WEIGHT (KG.)	HEIGHT (CM)	CHEST	HEP. (B)	ABDOMEN	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
3.	Lal Chand Pandit	Sri Gauri Pandit	Store Clerk	118/80	100	96	85	170	Clear	-w	Soft	240	✓	
4.	Anit Kumar Mishra	Gulab Mishra	Supervisor	124/80	114	98	89	170	Clear	-w	Soft		✓	
5.	Yogendra Yadav	Ram Adhari Yadav	Gen. operator	100/70	96	98	72	163	Clear	-w	Soft		✓	
6.	Mahajan Mishra	Prabhukish Mishra	Gen. operator	130/100	86	100	72	166	Clear	-w	Soft	150	✓	
7.	Tikendra Kumar	Ramesh Mandal	SMF operator	141/80	78	100	67	166	Clear	-w	Soft	90	✓	
8.	Bhishm Dev Yadav	Vishu Dev Yadav	Ass. officer	130/100	86	99	89	181	Clear	-w	Soft	115	✓	
9.	Arun Kumar Singh	Ramegya Singh	SM Dist. operator	114/80	66	98	79	165	Clear	-w	Soft	156	✓	


 Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd
 Unit-Gularia

MEDICAL OFFICER

Annexure-8

Environmental Management Cell

BALRAMPUR CHINI MILLS LIMITED
UNIT-GULARIA: DIVISION-CHEMICAL

GCM/EC/2675

Date:02-12-2022

REVISED-ENVIRONMENTAL MANAGEMENT CELL

In order to ensure compliance of the terms and conditions of Environmental Clearance granted by the Govt. of India, Ministry of Environment, Forest & Climate Change, New Delhi vide letter No.F.No.J-11011/236/2018-IA-II(1) dated 05-11-2019, Point No. 9.1 (x) wherein it is mentioned that a separate Environmental Management Cell equipped with full-fledged laboratory activities shall be set up to carry out the Environmental Management and Monitoring functions, the undersigned is pleased to constitute a Revised Environmental Management Cell as under who will oversee in the matter.

Sl.	Name	Designation	Duties Performed
1.	Mr.Yogesh Kr. Singh	Chief General Manager	Overall Incharge of Unit
2.	Mr.Sanjay Kr.Mishra	DGM (Power Plant)	Overall Incharge of Power Plant
3.	Mr.Neeraj Sharma	AGM (QC)	Incharge of Sugar E.T.P.
4.	Mr.Vinod Kr. Mishra	AGM (Distillery)	Incharge of Distillery Process & Environment.
5.	Mr.Anil Kumar	Manager (EHS)	Incharge of EHS.
6.	Mr.Santosh Kr.Singh	Sr.Dy.Manager (HR & Legal)	Overall Incharge of HR & Legal.
7.	Mr.Mohit Kumar	Officer (Horticulture)	Incharge of Horticulture
8.	Mr.Niwas Kapri	Assistant Manager (Security)	Incharge of Security.


(YOGESH KUMAR SINGH)
CHIEF GENERAL MANAGER

Balrampur Chini Mills Limited, Unit - GULARIA

Ref.: GCM/ 1623

Dt.: 22-07-2022

CIRCULAR **REVISED SAFETY COMMITTEE**

The Safety Committee has been re-constituted considering the guidelines of the Factories Act, 1948 and the UP Factories Rules, 1950.

The revised Safety Committee is given below -

S. No.	Name	Designation	Position
Management Representative			
1	Shri Yogesh Kumar Singh	C.G.M.	Chairman
2	Shri Sanjay Singh	GM (Engg.)	Vice-Chairman
3	Shri Anil Kumar	Manager (EHS)	Secretary
4	Shri Tushar Agarwal	Addl.GM (Comml.)	Member
5	Shri Rakesh Kr.Singh	DGM (Prodn.)	Member
6	Shri Vinod Kumar Mishra	Chief Manager (Prodn.)	Member
7	Shri Akhilesh Kr.Dwivedi	Chief Manager (Materials)	Member
8	Shri Santosh Kumar Singh	Sr.Dy.Manager (HR & Legal)	Member
9	Shri Niwas Kapri	Asstt.Manager (Security)	Member
Workmen Representative			
1	Shri Amarjeet Yadav	Fermentation Operator	Member
2	Shri Ambrish Kr. Tiwari	Sr.MEE Operator	Member
3	Shri Ram Babu Sharma	Head Fitter (Distillery)	Member
4	Shri Ved Prakash	Head Electrician	Member
5	Shri Chandan Yadav	Sr.Technican (Instr.)	Member
6	Shri Dinanath Singh	Head Fitter (Boiler)	Member
7	Shri Rajesh Kumar	Sr.Evaporator Operator	Member
8	Shri Nishesh Tripathi	Safety Officer	Member
9	Shri Vijay Kumar Gaur	Sr.Head Fitter-cum-Supervisor	Member

The Safety Committee shall have tenure of 02 years and will meet once in every 02 months. All above employees must participate in the each scheduled meeting positively.


(YOGESH KUMAR SINGH)
CHIEF GENERAL MANAGER

Copy to:

- ✓ All Committee Members
- ✓ Time Office
- ✓ Security & Notice Boards

Annexure-9

Copy of Environmental Clearance

F. No.J-11011/236/2018-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jor bagh Road, New Delhi - 3
Dated. 5th November, 2019

To,

M/s Gularia Chini Mills, Distillery Unit
(A unit of Balrampur Chini Mills Limited),
Village Rudrapur Gularia, Tehsil Golagokarannath,
District Lakhimpur Kheri (UP)

Sub: Setting up molasses based distillery of 160 KLD by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No.IA/UP/IND2/75830/2018 dated 27th March, 2019, for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) in an area of 8.747 ha located at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP). The project also involves installation of 8 MW Co-generation power plant.
3. Land area available for the project is 8.747 ha. Industry shall develop greenbelt in an area of-2.88 ha, covering 33% of total project area. The estimated project cost is Rs 208 742 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 110 crores and the recurring cost (operation and maintenance) will be about Rs 11 crores per annum. Employment opportunity will be for 160persons.
4. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and Wildlife Corridors etc. within 10 km from the project site. Sharda River flows at 6.6 km in the East direction from the project location.
5. Total water requirement is estimated to be 2816 cum/day, which includes fresh water requirement of 960 cum/day, proposed to be met from ground water. The proposal in this regard has been recommended to CGWA by CGWB (Northern Region), Lucknow vide letter dated 22nd February, 2019.

Spent wash of 800 cum/day shall be treated in MEE and concentrate from MEE will be incinerated in Slop fired boiler. Other effluent of 1139 cum/day shall be treated through Condensate Polishing unit. Treated effluent shall be reused/recycled in the process/boiler/cooling tower. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement of 4.5 MW shall be met from own Co-Generation plant. Unit will install Strop fired boiler of 60 TPH capacity. Electro static precipitator with a stack of height of 72m will be installed to control particulate emissions.

Carbon di oxide will be generated from fermentation process shall be recovered from the process and sold to beverage industry. Ash of 60.03 TPD will be mixed with fermenter sludge and utilized as manure, in the proposed granulation plant.

6. The project/activity is covered under category A of item 5 (g) 'Distilleries' of the schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal/approval at Central level in the Ministry.

7. Standard Terms of Reference for the project was issued on 24th August, 2018. Public Hearing for the proposed distillery project has been conducted by the State Pollution Control Board on 22nd February, 2019. The main issues raised during the public hearing are related to employment, health issues, waste water, water sources and odour issues, etc.

8. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 6-8 May, 2019 & 26-28 June, 2019. The project proponent and their accredited consultant M/s Ascenso Enviro Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory, in consonance with the presented ToR, and recommended the project for grant of environmental clearance.

9. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills** at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

(a) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board as required.

(b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(d) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(e) Coal shall not be used as fuel in boiler.

(f) Total fresh water requirement shall not exceed 960 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

- (g) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- (h) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (i) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (j) The company shall undertake waste minimization measures as below:-
(i) Metering and control of quantities of active ingredients to minimize waste.
(ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
(iii) Use of automated filling to minimize spillage.
(iv) Use of Close Feed system into batch reactors.
(v) Venting equipment through vapour recovery system.
(vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (k) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (l) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.
- (m) At least 5% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (n) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (o) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (p) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (q) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- (r) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (s) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit

shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

(i) CO₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.

9.3 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.

(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

(iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(vi) The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.

(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.

(viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(xiv) The environmental statement for each financial year ending 31st March in Form V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.


(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.mca.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

12. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.


(Dr. R. B. Lal)
Scientist E

Copy to:

1. The Additional Principal Chief Conservator of Forests, MoEF&CC, Regional Office (CZ) Kendriya Bhavan, 5th Floor, Sector H, Aliganj, **Lucknow** - 226020
2. The Principal Secretary, Department of Environment, Government of Uttar Pradesh, Sachivalaya, Babu Bhawan, Adjacent to Vidhan Sabha, **Lucknow** - 226001 (UP)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Uttar Pradesh Pollution Control Board, PICUP Bhawan, Vibhuti Khand, Gomti Nagar, **Lucknow** (UP)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi** - 3
6. Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Man Singh Road, **New Delhi**-110011
7. District Collector, **Lakhimpur Kheri (UP)**
8. Guard File/Record File/Monitoring File/Website of MoEF&CC

(Dr R B Lal)
Scientist E



**Half - Yearly Compliance Report
On
Environmental Clearance Conditions**

**(MoEF & EE Letter No. J-11011//236/201/-IA-II (I) Dated 5th November 2019)
Period: October-2021 to March-2022**

**Submitted By:
M/s Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Chemical
P.O.-Nausar Gularia,
Distt: - Lakhimpur Khiri (U.P.)
Pin-262901**



BALRAMPUR CHINI MILLS LIMITED

UNIT-GULARIA

FACTORY ADDRESS : GULARIA CHINI MILLS, VILL. GULARIA, P.O. NAUSHAR GULARIA, DISTT. : LAKHIMPUR KHERI (U.P.) PIN-262901
PHONE : 05970-242902/906, 9721460393, 9455368547 SUPERFAX : 011-43850308, E-mail: bcml.geml@bcml.in
CIN. L15421WB1975PLC030118, GSTIN: 09AAACB9373Q1ZW

GCM/EC Compliance Report/ 1273

Dated: 19-05-2022

The Joint Director (Scientist)
Ministry of Environment, Forest and Climate Change
Kendriya Bhawan, 5th Floor
Sector-H, Allganj,
Lucknow-226024

Sub: Six Monthly Environmental Compliance Report & Data Sheet

Ref.:

1. Environmental Clearance letter No. J-11011/236/2018-IA-II(I) dated 5th November-2019 issued by the Scientist E, GOI, MoEF&CC, (IA-II Section), New Delhi
2. Your letter No. File No.IV/Env/UP/Ind-172/538/2019/397 dated 18-11-2019

Dear Sir/Madam,

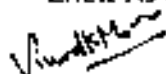
With reference to above, we are enclosing herewith six monthly Environmental Compliance Report along with Data Sheet of our Chemical Division for the period from October-2021 to March-2022 as per Environmental Clearance issued by the Scientist E, GOI, Ministry of Environment, Forest & Climate Change vide his letter No. J-11011/236/2018-IA-II(I) dated 5th November-2019 for your needful please.

Thanking you,

Yours faithfully
For Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Chemical


AUTHORISED SIGNATORY

Encl: As above



BALRAMPUR CHINI MILLS LTD.: UNIT-GULARIA, DIVISION-CHEMICAL
VIII. -Gularia P.O-Nausar Gularia, Distt-Lakhimpur Kheri-262901(U.P)
Sub-Compliance of Condition stipulated in Environmental Clearance issued for 160 KLD
Molasses Based Distillery vide MOEF & CC Environmental clearance Letter
No-F.No.J-11011/236/2018-IA-II(I), Dated-5th November, 2019.

Period of Compliance-October-2021 to March-2022

(A)	General Conditions	
S.No.	Conditions	Compliance Status
9 (a)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable from time to time, shall be obtained from the state Pollution control Board as required.	<p>All the Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable obtained from UPPCB, Lucknow as under :-</p> <p>1.) Consent Order (CTO) under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent vide letter No. 134022/UPPCB/Lucknow (UPCBRO)/CTO/air/Lucknow/2021 dated 18.08.2021.</p> <p>2) Consent Order (CTO) under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) vide letter No. 134026/UPPCB/Lucknow (UPCBRO)/CTO/water/Lucknow/2021 dated 18.08.2021 Annexure-1.</p>
(b)	As already committed by the project proponent, Zero liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	<p>Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve Zero Liquid Discharge and we are maintaining the same.</p> <p>Effluent other than spent wash like spent lees, Process condensate and utilities effluent is being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP), and treated water from CPU/ERP is being used in process & cooling tower makeup water.</p>

(c)	Necessary authorization required under the hazardous and other wastes (Management and Trans boundary Movement) Rules, 2016, solid waste management rules, 2016 shall be obtained and the provisions contained in the rules shall be strictly adhered to.	We have receipt Authorization for Hazardous Wastes from UPPCB, Lucknow. Ref.No. 11713/UPPCB/Lucknow (UPPCBRO)/HWM/LAKHIMPUR KHIRI/2020 dt. 04/05/2020 Annexure-1.
(d)	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	The gaseous emissions from various process units is as per load/mass based standards notified by the Ministry on 19th May, 1993 and standards prescribed from time to time by CPCB and UP Pollution Control Board. Stack Emission Monitoring Report is enclosed as Annexure-2.
(e)	Coal shall not be used as fuel in Boiler.	We are using only Slop & Bagasse in Incineration Boiler as a fuel for Steam and power generation.
(f)	Total fresh water requirements shall not exceed 980 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regards.	We have obtained necessary NOC from UPGWA, Lucknow vide Registration no. 202105000150, 202105000152 which is valid up to 08-07-2026 Annexur-3.
(g)	Hazardous chemical shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvents transfer through pumps.	We have already stored all the Hazardous chemical in tanks, tank farms, drums, carboys etc. Flame arrester is also provided on tank farm and the solvents transfer through pumps.
(h)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed-off to the TSDF.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and processed to produce Granular potash in Granulation Plant.
(i)	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of hazardous Chemical (MSHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.	The company has strictly complied with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemical (MSHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.
(j)	The company shall undertake waste minimization as below:-	
(i)	Meeting and Control of quantities of active ingredients to minimize waste.	We are using ingredients in optimum quantity for the control of wastage.

(ii)	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and processed to produce produced Granular potash in Granulation Plant.
(iii)	Use of automated filling to minimize spillage.	Automated filling system is already installed to minimize spillage.
(iv)	Use of close feed system into batch reactors.	Close feed system are used into batch reactors.
(v)	Venting equipment through vapour recovery system.	We have proper arrangement for vapour recovery System.
(vi)	Uses of high pressure hoses for equipment's cleaning to reduce waste water generation.	We are using High Pressure Jet Cleaning Machine for equipment's cleaning to reduce waste water generation.
(k)	The green Belt of 5-10m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road side etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State forest Department.	Provision of green belt in 33% of total project area has already been taken place and plantation is being done regularly inside factory premises as per CPCB & DFO advice. We have planted 6000 plants up to 31.03.2022 (Annexure-4).
(l)	All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.	All the Commitments made during the Public Hearing are complied.
(m)	At least 5% of the total project cost shall be allocated for Corporate Environmental Responsibility (CER) and item wise details along with time bound action plan shall be prepared and submitted to the Ministry regional Office.	As per the MoEF Office Memorandum dated 30.09.2020 superseding the Office Memorandum dated 01.05.20218 regarding Corporate Environmental Responsibility, the unit is committed and is providing education funds in training centers/support in nearby villages school, support in health care facilities, drinking water supply, and allocated funds for miscellaneous activities like solar street lights, battery, solar panel etc. in nearby villages. Copy of the Office memorandum dated 30.09.2020 is enclosed as Annexure-5.
(n)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustics enclosures shall be provided to DG set for controlling the noise pollution.	DG sets emission limits and stack height is as per conformity with extant regulations and the CPCB guidelines. Acoustics enclosures provided to DG Set for controlling the noise pollution.
(o)	The unit shall make the arrangement	Industry has already installed well

	for protection of possible fire hazardous during manufacturing process in material handling. Firefighting system shall be as per the norms.	established firefighting arrangement for protection of possible fire hazardous during manufacturing process in material handling. All the Firefighting system is as per the norms.
(p)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	An occupational health Surveillance program is already in our system. Medical facilities have been provided by industry for proper checkup the health of employees. For this purpose industry has well equipped hospital inside the factory Campus for regular monitoring of the employee's health and medical records of each employee are also maintained. Report is enclosed as Annexure-6.
(q)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Industry has already earmarked adequate space inside the plant premises for parking of vehicles for raw materials and finished products.
(r)	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	We have provided MS tanks for storage of raw material i.e. Molasses to prevent dust pollution and other fugitive emissions.
(s)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Online monitoring system (24 X 7 Monitoring devices) has been installed at stack emission, spent wash generation & slop consumption in boiler. As this is a zero liquid discharge based unit, hence web camera has been installed as per CPCB guidelines near spent wash storage lagoon and MEE & Incineration area of Distillery.
(t)	CO2 generated from the process shall be bottled/made solid ice and sold to authorize vendors.	CO2 Plant installed and Production of Liquid CO2 and Dry Ice started on dated 01.03.2021 and sold to authorize vendors.

Sr.No.	(A) Specific Conditions	Compliance Status
9.1 i	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) State Government and / or any other statutory authority.	Being adhered as per the stipulation made by UP Pollution Control Board and the State Government.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No expansion or modification work has been carried out without prior approval of The Ministry of Environment, Forest and Climate Change.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concern stations are anticipated.	Ambient Air quality monitoring stations have already been set up in consideration of maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission are regularly submitted to UPPCB/CPCB and Regional Office, of MoEFCC at Lucknow once in six months. Ambient Air Quality Monitoring Report is enclosed as Annexure-2.
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009 shall be complied with.	We have already complied The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009. Ambient Air quality Report are attached as Annexure-2.
v	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	We have already provided noise control measures including acoustic hoods, silencers, enclosures etc. on all the noise generating sources to maintain the overall noise level in and around the plant area are within the Standards (85dBA). Noise control measures has already been planned and enclosures would be put to keep the ambient noise level below 75 dBA (day time) and 70 dBA (night time). Noise Level Monitoring Report is enclosed as Annexure-2.

vi	The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.	Rain water harvesting measures are already taken for the recharge of ground water and to utilize the same for different industrial operations within the plant.
vii	Training shall be imparted to all employees on safety and health aspects of chemicals handling Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	We have imparted training to all employees on safety and health aspects of chemicals handling Pre-employment as well as routine periodical medical examinations for all employees undertaken on regular basis.
viii	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	All the environmental protection measures and safeguards recommended in EIA/EMP reports have been effectively implemented in respect of environmental management, risk mitigation measures and public hearing.
ix	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	We are already undertaking socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc. Besides this we have also organized free medical health check-up camps in nearby villages under supervision of expert Doctors.
x	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is in place and equipped with full fledged laboratory facility to carry our environmental monitoring functions (Annexure-7). We have full-fledged Environmental Laboratory for testing and monitoring of treatment units parameters. The equipment's available in Lab are as under:- <ul style="list-style-type: none"> • Laminar Flow • BOD incubator

		<ul style="list-style-type: none"> • Centrifugal Machine • Electric Oven • Muffle Furnace • pH Meter • Conductivity Meter and TDS Meter • Electronic Weighing Machine • COD reflux unit • Turbidity meter • DO meter • Oxygen Analyzer • Multi-gas Detector
xi	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management /pollution control measures shall not be diverted for any other purpose.</p>	<p>There is no paucity of funds for environmental pollution control measures (i.e.-Air Pollution Control, Water pollution control, Noise pollution control, Solid waste management, Environmental monitoring and Surveillance, Occupational Health Management & Green belt development) to implement the conditions stipulated by MOEF&CC as well as the State Pollution Control Board.</p>
xii	<p>A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p>	<p>Copy of Clearance Letter already sent to all concerned in compliance of guidelines.</p>
xiii	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six</p>	<p>Six monthly compliance reports (both in hard copies as well as by e-mail) along with monitored data are submitted to the Regional Office of MoEF&CC, CPCB and UP Pollution Control Board, Lucknow.</p>

	monthly compliance status reports shall be posted on the website of the company.	
Xiv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional officers of MoEF&CC by e-mail.	We have submitted the environmental statement report in Form-V to the state Pollution control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and also submitted to the Regional Office of the MoEF&CC at Lucknow.
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	Already advertised in two local newspapers i.e. Hindustan(Bartelly Edition) dated 03.12.2019 & Rashtriya Sahara (Lucknow Edition) dated. 01.12.2019. A copy of the same was already forwarded to the MoEF&CC, Regional Office, Lucknow under cover of our letter No.GCM/MoEF/3639 dated 03-12-2019.
10	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Environmental protection measures as stipulated are being completed with time frame. Concerted efforts are being put for implementation of all condition as directed.

11	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	We assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a clean and safe environment in an around manufacturing facility and continued our efforts for the same.
12	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	No any appeal is lying against this Environmental Clearance with the National Green Tribunal.
13	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	Provision of Compliance of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments are also complied as directed.

We once again assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a safe, clean & green environment in an around manufacturing facility and continued our efforts for the same.

Thanking you,

Yours faithfully,
For Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Distillery


Authorized Signatory
Vinod Kumar

MONITORING REPORT
PART-1
DATA SHEET

1.	Project Type : (DISTILLERY)	Production of RS/ENA/AA-200 KLPD on B-Heavy Molasses alongwith 7.56 MW Co-generation power plant.
2.	Name of Project	M/s. Balrampur Chini Mills Ltd., Unit- Gularia, Division-Distillery Village Rudrapur Gularia, Tehsil-Golagokarnnath, District-Lakhimpur Kheri-262901 (UP)
3.	Clearance letter/OM No. & Date	MoEF No.-J-11011/236/2018-IA-II(I) Date: 5 th November, 2019 - Annexure-8
4.	Location District State Latitude/Longitude	Lakhimpur Kheri Uttar Pradesh Latitude 28° 13'41.32"N and Longitude 80° 38'15.47"E
5.	Address for Correspondence Address of concerned Project Incharge	Shri Vinod Kumar Mishra Chief Manager (Production) Balrampur Chini Mills Ltd. Unit-Gularia, Division-Distillery Vill.-Rudrapur Gularia ,Post- Nausar Gularia, Tahsil- Golagokarnnath Distt- lakimpur Kheri-262901 (U.P.) Ph. 8218830589, 9410651692 Email- v.mishra@bcml.in
	Name & address of Nodal Officer with Phone No./Fax Number(s)/Mobile Nos.	Shri Vinod Kumar Mishra Chief Manager (Production) Balrampur Chini Mills Ltd. Unit-Gularia, Division-Distillery Vill.-Rudrapur Gularia ,Post- Nausar Gularia, Tahsil- Golagokarnnath Distt- lakimpur Kheri-262901 (U.P.) Ph. 8218830589, 9410651692 Email- v.mishra@bcml.in
6.	Salients Features of the Project	(a) Molasses based Distillery. (b) Plant Capacity - 200 KLPD RS/ENA/AA (c) Water consumption - 6 Lit/Lit of Spirit (d) Spent wash generation - 800 KLPD (e) Waste water discharge - ZLD (f) Waste water Treatment system - Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve zero discharge. Zero discharge condition is being maintained. Effluent other than spent wash like spent lees, Process condensate and utilities effluent are being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP) and treated water from CPU/ERP is being used in process & cooling tower makeup water.
(b)	of the Environmental Management Plan	Distillery is based on Zero Liquid discharge technology in which 100% spent wash is being concentrated in MEE and

		then Concentrated spent wash i.e. Slop used as a fuel and burn in Incineration Boiler.			
7.	Breakup of the Project area	Project area - 8.747 Hectare Green belt - 2.88 Hectare(33% of Project area)			
8.	Breakup of the project affected population with enumeration of those losing houses/ dwelling unit only units and agricultural land less labourers/ artisans. (a) SC/ST Adivasis (b) Others (c) Number of villages affected (d) Name and other particulars of Identified area for settlement. (e) Compensation package (f) Budget (g) Status	..... Not applicable			
9.	Financial details				
(a)	Project cost of originally planned subsequent revised estimated and the years of price referen.	Initially Project Cost: Rs. 208.742 Crores. Cost towards Environmental protection measures (Capital cost) :Rs.127 Crores Recurring cost towards Environmental control measures :Rs.1.90 crores			
(b)	Allocations made for Environment Management plans, with item wise breakup.	Sr.No	Description	Capital Cost (Lakhs)	Recurring Cost/annum (Lakhs)
		1.	Air Pollution control	153	3
		2.	Water Pollution Control(CPU/ERP Plant)	3563	14
		3.	Solid waste management(Granulation Plant, Ash handling area)	8148	162
		4.	Environmental monitoring and Management	88	2
		5.	Green belt Development	35	4
		6.	Rain water harvesting Measures & others	35	3
		7.	CO2 recovery	460	0
		8.	Miscellaneous (Online monitoring system & web camera)	218	2
		Total		12700	190
(c)	Benefit cost				

	ratio/internal rate of return and the year of assessment.	Shall be submitted as soon as possible
(d)	Whether (c) includes the cost of environmental management as shown in (b) above.	
(e)	Actual expenditure incurred on the Environmental Management plan so far.	We have invested Rs. 127 Crores up to 31-03-2022.
10.	Forest and requirement (a) The status of approval for a diversion of forest land for forest use. (b) The status of compensatory afforestation's, if any. (c) The status of clear felling. (d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.	----- Not Applicable -----
11.	The status of clear felling in non-forest is	----- Not Applicable -----
12.	Status of construction :	
(a)	Date of Commencement (actual and / or planned).	January-2020
(b)	Date of Completion (actual and/or planned)	Plant is running under consent of UPPCB.
13.	Compliance report on Environmental clearance conditions.	Enclosed herewith

For Balrampur Chini Mills Ltd.
Unit- Gularia, Division-Distillery

Authorized Signatory

Vinod Bha

-: List of Enclosed Annexures :-

Sr.No.	Particulars	Annexure No.
1	Copy of Air Consent Order to Operate Copy of Water Consent Order to Operate Copy of Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016	Annexure-1
2	Monitoring/Testing Report	Annexure-2
3	Copy of UPGWA NOC	Annexure-3
4	Photographs	Annexure-4
5	MoEF Office Memorandum	Annexure-5
6	Health Record of Employees	Annexure-6
7	Copy of Environmental Management Cell	Annexure-7
8	Copy of Environmental Clearance.	Annexure-8
9	CER Activity Photographs	Annexure-9

Annexure – 01

**Copy of CTO -Air
Copy of CTO - Water
Copy of Authorisation
issued under the
provisions of Hazardous
and Other Wastes
(Management and
Transboundary
Movement) Rules, 2016**



UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. - 134022/UPPCB/Lucknow(UPPCBRO)/CTO/air/LUCKNOW/2021

Dated : 18/08/2021

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
.LUCKNOW,262901
LUCKNOW

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical

Reference Application No. 13105695

Dated : 18/08/2021

1. With reference to the application for consent for emission of air pollutants from the plant of M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 18/08/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2021.08.18 11:21:36 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar Agarwal Digitally signed by Pramod Kumar
Agarwal
Date: 2021.08.18 11:22:13 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. Pollution Control Board

Dated : 18/08/2021

CONDITIONS OF CONSENT

- 1(a). The details of Air pollution sources and stacks attached with Boiler

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	01 nos. Slop Fired Boiler (capacity of 60.0 TPH)	Bagasse and slop	1	Particulate Matter	72 meter from GL

- 1(b) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	1	Particulate Matter	150 mg/Nm3

- The equipment for air pollution control system and monitoring, as proposed by the industry and approved by the Board should be installed in their premises itself.
- Industry shall dispose the incineration boiler ash in such a manner so that there should not be any adverse impact on public health at large and on Soil, Water & Air environment.
- The modification or installation in the existing pollution control equipment shall be done only by prior approval of the Board.
- The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants shall be in accordance with the standards prescribed by the Board/MoEF& CC/or otherwise mandatory.
- Unit shall do provisions for control of fugitive emissions from process as per the norms of the Board/MOEF & CC/or otherwise mandatory.
- The unit shall submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report analysed by Board/NABL accredited laboratory shall be submitted.
- In case of closure directions under section-5 of E (P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.
- Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com.
- Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
- Industry shall abide by orders / directions issued by Hon'ble Supreme court, Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time.

The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. CTO (Air) issued earlier vide letter no. 108586/UPPCB/Lucknow(LAB)/CTO/air/LUCKNOW/2020 dated 05.12.2021 (validity upto 31.12.2022) for production of 160 KLD ENA/RSA/AA using Molasses as raw material is hereby revoked.
2. This consent is issued for the production of Ethanol/RS/ENA/AA 160 KLD to 210 KLD using B-heavy Molasses as raw material and 8.0 MW Co-generation Power. If C-Heavy Molasses is used as raw material then the production capacity shall be 160 KLD.
3. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
4. The industry shall operate and maintain properly the 60 TPH boiler and ESP as per the conditions imposed in the CTE issued by the Board for the same.
5. Industry shall operate and maintain the installed APCS (ESP attached with the boiler of capacity 60 TPH) effectively and Stack monitoring report shall be submitted on quarterly basis.
6. Online Monitoring System shall be installed at the boiler and connected to CPCB and UPPCB server.
7. The industry shall operate and maintain the Air Pollution Control System efficiently and continuously so as to satisfy the prescribed emission standards.
8. The industry shall ensure to install adequate capacity CO₂ plant within 03 months.
9. The industry shall comply with the conditions of Environmental Clearance issued by MoEF & CC vide letter no J-11011/236/2018-IA-II(I) dated 05.11.2019.
10. The industry shall ensure compliance of conditions mentioned in the "No Increase in Pollution Load" certificate issued by the Board vide letter no. H 62112/C-5/L/NOC-1013/21 dated 04.06.2021.
11. Due to change in raw material from C-Heavy molasses to B-Heavy molasses based expansion of Ethanol production capacity from 160 KLD to 210 KLD shall result in "No Increase in Pollution Load" subject to the condition that the project is implemented strictly in accordance with the technical details submitted by the Project Proponent in the Board.
12. The Project Proponent shall submit the validation report for B-Heavy Molasses based 210 KLD Ethanol production from any reputed Institute such as NSI, Kanpur/VSI, Pune/any IIT within 03 months after starting B-Heavy molasses based operation.
13. If the validation report carried out by any reputed institute is same as claim made by the unit then the consent shall be valid otherwise stand automatically be revoked.
14. The unit shall restrict the spent wash storage capacity to 07 days only (B-Heavy molasses).
15. The unit should submit monthly data of following to UPPCB:
 - a. Fresh water consumption.
 - b. Ethanol Production.
 - c. Spent wash generation.
 - d. Slop generation.
 - e. Condensate generation.
 - f. Feed quantity of slop into incinerator.
 - g. Yeast sludge generation.
 - h. Boiler ash generation.
 - i. Quantity of granule generation and sold.
 - j. Quantity of Spent lees generation, recycle/reuse and treatment in CPU.
 - k. Quantity of effluent received into CPU, details of reuse/recycle etc.
 - l. Steam generation, fuel consumption.
 - m. CO₂ production.
16. The industry shall adhere to the ambient Air quality prescribed standards at all the time.

17. The unit shall develop green belt as per the Protocol attached with Board's office order H 16405 /220/2018/02 dated 16-2-2018, which is available on the Board's website- www.uppcb.com.
18. The ash generated from the Slop Boiler shall not be disposed off near any surface water body/pond/river/lake, etc.
19. Proposal for ash utilization shall be submitted to the Board within 02 months and the ash collected from the APCS shall be utilized accordingly.
20. Ash generated from boilers shall be stored in a safe place and proper arrangement of water sprinkling shall be done to suppress the dust particles.
21. The industry shall submit stack monitoring reports conducted by any NABL accredited laboratory within 15 days in the Board and after then on quarterly basis.
22. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
23. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.
24. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.
25. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
26. The industry shall ensure regular transmission of data of Continuous Online Emission Monitoring System for to the servers of CPCB and UPPCB. Industry shall submit regular stack monitoring report every month. The OCEMS shall be calibrated periodically.
27. The industry shall comply with the provisions of, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
28. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.
29. The consent shall be valid from the date of issuance of this certificate.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2021.08.18 11:22:48 +05'30'
Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

**Ref No. -
134026/UPPCB/Lucknow(UPPCBRO)/CTO/water/LUCKNOW/2021**

Dated : 18/08/2021

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
,LUCKNOW,262901
LUCKNOW

Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent to M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical

Reference Application No :13106250

Dated :18/08/2021

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure ,in reference to their foresaid application .
2. This consent is valid for the period from 18/08/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2021.08.18 11:56:36 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar Agarwal Digitally signed by Pramod Kumar
Agarwal
Date: 2021.08.18 11:57:00 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.Balrampur Chini Mills Limited Unit Gularia Division Chemical vide

Consent Order No. 13106250/ Water

Dated : 18/08/2021

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of 160 KLD to 210 KLD Ethanol/RS/ENA/AA (If using C-Heavy Molasses as raw material the production capacity will be 160 KLD alcohol production).

2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	20.0 KLD	STP
2	Industrial	1218 KLD (ZLD)	ETP

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. It should be ensured that domestic effluent should not be discharged in storm water drain.

4(a) The domestic effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms.

Domestic Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	100 mg/l
2	BOD	30 mg/l
3	COD	250 mg/l
4	Oil & Grease	10 mg/l

5. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry.

6. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under the Environment (Protection) Act, 1986.

7. The industry shall not discharge any trade effluent outside the premises and Zero Liquid Discharge (ZLD) shall be maintained all the time.

8. Molasses shall not be stored in kachcha pits.

9. If UPPCB or CPCB issues closure order against the industry, this consent shall remain suspended for the period till closure order is revoked, after which the consent will be effective again for the remaining period.

10. The unit should be operated in such a way so that there is no adverse impact on public and environment.

11. Unit must maintain on line connectivity of mass flow meters at the inlet and outlet of MEE and web cameras installed at the final outlet, MEE and Bio Compost yard and connected with server of CPCB and UPPCB.

12. The unit shall ensure deployment of qualified staff for self monitoring mechanism on 24 X7 hours basis.

13. Volume of spent wash shall be reduced to 40 % minimum and solid concentration shall be maintained minimum 30% at the outlet of MEE.

14. Unit shall identify recipient drains/rivulets and their upstream & downstream locations in consultation with UPPCB and shall carry out monthly monitoring of identified recipient drains at upstream & downstream location through recognized lab under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis by 10th of every month to CPCB and UPPCB.

15. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity at any stage shall not exceed 07 days equivalent of production in case of incineration boiler and 30 days equivalent of production in case of bio composting.
16. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
17. Industry shall ensure to send monthly reports regarding spent wash storage and details of spent wash in each lagoon constructed in industry.
18. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. CTO (water) issued earlier vide letter no. 108580/UPPCB/Lucknow(LAB)/CTO/Water/Lucknow/2020 dated 05.12.2020 (validity upto 31.12.2022) for production of 160 KLD ENA/RSA/AA using Molasses as raw material is hereby revoked.
2. This consent is issued for the production of Ethanol/RS/ENA/AA 160 KLD to 210 KLD by using B-heavy Molasses as raw material and for 8 MW Co generation. If C-Heavy Molasses is used as raw material, then production capacity shall be 160 KLD of Alcohol.
3. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
4. The industry shall ensure to operate and maintain properly the MEE, CPU, digester and RO to ensure Zero Liquid Discharge; failing which, this consent order shall be treated as cancelled.
5. The industry shall comply with all other directions issued under the Water (Prevention and Control of Pollution) Act, 1974 stipulated by Central Pollution Control Board, New Delhi to ensure achievement of Zero Liquid Discharge positively.
6. The industry shall ensure to install adequate capacity CO₂ plant within 03 months.
7. The industry shall comply with the conditions of Environmental Clearance issued by MoEF & CC vide letter no J-11011/236/2018-IA-II(I) dated 05.11.2019.
8. The industry shall ensure compliance of conditions mentioned in the "No Increase in Pollution Load" certificate issued by the Board vide letter no. H 62112/C-5/L/NOC-1013/21 dated 04.06.2021.
9. Due to change in raw material from C-Heavy molasses to B-Heavy molasses based expansion of Ethanol production capacity from 160 KLD to 210 KLD shall result in "No Increase in Pollution Load" subject to the condition that the project is implemented strictly in accordance with the technical details submitted by the Project Proponent in the Board.
10. The Project Proponent shall submit the validation report for B-Heavy Molasses based 210 KLD Ethanol production from any reputed Institute such as NSI, Kanpur/VSI, Pune/any IIT within 03 months after starting B-Heavy molasses based operation.
11. If the validation report carried out by any reputed institute is same as claim made by the unit then the consent shall be valid otherwise stand automatically be revoked.
12. The unit shall restrict the spent wash storage capacity to 07 days only (B-Heavy molasses).
13. The unit should submit monthly data of following to UPPCB:
 - a. Fresh water consumption.
 - b. Ethanol Production.
 - c. Spent wash generation.
 - d. Slop generation.
 - e. Condensate generation.
 - f. Feed quantity of slop into incinerator.
 - g. Yeast sludge generation.
 - h. Boiler ash generation.
 - i. Quantity of granule generation and sold.
 - j. Quantity of Spent lees generation, recycle/reuse and treatment in CPU.
 - k. Quantity of effluent received into CPU, details of reuse/recycle etc.
 - l. Steam generation, fuel consumption.
 - m. CO₂ production.
14. Industry shall operate and maintain measuring devices (water/flow meters) at required location (raw water consumption, solid separation system: feed, permeate and reject, evaporation concentration systems: feed concentrate and condensate, water reused in the process & concentrate utilized in drying system/equivalent technology) to record the water balance shortly without delay.
15. Industry shall install web cameras at each strategic location such as MEE, spent wash storage lagoon and CPU etc. for monitoring purpose and provide its URL & ID to the Board within a month.

16. Industry shall operate and maintain the effluent treatment system effectively and regularly. All the effluent treatment system shall be kept in good running condition all the time and failure (if any), shall be immediately rectified without delay otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Industry shall not discharge any treated / untreated effluent in to the river or any surface water bodies. No effluent shall be discharged outside of the factory premises in any circumstances; hence zero discharge condition shall be maintained at all the time.

17. Industry shall make proper arrangement for safe and scientific handling, storage, transportation and disposal of all solid wastes, sludge etc. generated.

18. Spent wash generation, storage shall be done as per the guidelines of CPCB.

19. Measuring system for spent wash storage shall be installed.

20. The industry shall submit ground water quality analysis report of the nearby areas on quarterly basis in coordination with UPPCB.

21. The PP shall obtain NOC from UP Ground Water Department for abstraction of ground water within 03 months and submit in the Board, failing for which CTO will automatically be stand revoked.

22. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.

23. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.

24. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.

25. The industry shall comply with the Plastic Waste Rules, 2016.

26. The industry shall submit on site disaster management plant.

27. The industry shall provide copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter reading connected with CPCB server etc. on monthly basis (by 10th of every month) to CPCB/UPPCB.

28. The industry shall provide adequate arrangement for control of odour nuisance. All internal roads shall be made pucca. Industry shall maintain good housekeeping within factory premises, around effluent treatment facilities etc.

29. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.

30. Analysis report from recognized laboratory for solid concentration at inlet and outlet of MEE should be submitted to the Board within one month from the date of issue of this certificate.

31. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

32. This consent will be valid from the date of issuance of this certificate.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD

TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226010

Ref. No : 11713/UPPCB/Lucknow(UPPCBRO)/HWM/LAKHIMPUR KHIRI/2020 Dated: 04/05/2020

To,

M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical
VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901 (U.P), LAKHIMPUR KHIRI, 262901

Tehsil : Gola Gokaran Nath

District : LAKHIMPUR KHIRI

Sub :- Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1. Number of authorization and date of issue 11713 and 04/05/2020 .
2. Reference of application (No. and date) 8280049 and 17/03/2020 .
3. Mr NK AGARWAL of M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, utilization, storage and disposal or any other use of hazardous or other wastes or both on the premises situated at VILL. RUDRAPUR GULARIA, NAUSAR GULARIA, LAKHIMPUR- .

Details of Authorisation

S No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing, etc.	Quantity (ton/annum)
1	Sch-1, Cat.-5.1 (Used/Waste Oil)	TSDF	9.0 MT/Annum

1. The authorization shall be valid for a period of 05/05/2024 from the date of issue of this letter .
2. The authorization is subject to the following general and specific conditions (please specify any conditions that need to be imposed over and above general conditions, if any) .

A General Conditions of Authorization -

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under .
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Board .
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization .
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation .
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time .

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and penalty .
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility .
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation .
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained .
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation .
11. The importer or exporter shall bear the cost of Import or export and mitigation of damages if any
12. An application for the renewal of an authorisation shall be made as laid down under these Rules .
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Changes or Central Pollution Control Board from time to time .
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year .

B Specific Conditions of Authorization

1. The authorization shall be valid for a period of Five Years from the date of issue, if not suspended or cancelled earlier.
2. The wastes must be safely collected in leak proof containers and shall be duly marked in a manner suitable for handling, storage and transport and the packaging shall be easily visible and be able to withstand physical conditions and climatic factors. All hazardous waste containers / bags shall be provided with a general label. The storage area should be at an isolated spot in the premises and must be fenced, covered and duly marked.
3. The authorized person/agency shall ensure that no adverse impact on the air, soil and water including groundwater takes place due to activities for which authorization has been requested. Comprehensive safety measures must be followed in handling of wastes and the staff must be properly trained.
4. It is brought to your notice that as per the order dated 14-11-2003 passed by the Hon'ble Supreme Court in W.P. (c) No. 657 of 1995, no industry covered under Hazardous and other Wastes (Management and Tran boundary Movement) Rules, 2016 shall be allowed to operate without valid authorization. It is also provided in the same orders that industries which are not complying with the conditions of authorization shall not be allowed to operate. Hence in case you fail to apply for authorization, before its expiry or fail to comply with conditions of the earlier authorization issued to you, closure order shall be issued against your industry without any further notice.
5. The applicant must file returns on prescribed Form- 4 along with a compliance report of this letter and should also maintain records on Form 3 and present it to Board's inspecting officials.

6. In case of occurrence of an accident, complete details on form must be sent to U.P. Pollution Control Board at the earliest along with details of mitigative and remedial measures taken.
7. The authorized person/agency shall not receive, collect, or store any hazardous waste from any unauthorized occupier or generator of hazardous wastes. In case any hazardous wastes is sold to any other reprocessing unit it must be ensured that such unit is fully complying with environmental requirements and has a valid authorization of the Board.
8. In no case any hazardous wastes shall be disposed off on land, in any drain or stream. All spillages of hazardous chemicals, used containers, of hazardous chemicals such as flammable corrosive, explosive and toxic nature must be safely collected and stored. Non-compatible wastes must be suitably and safely handled.
9. It is within the powers and functions of the U.P. Pollution Control Board to modify / revoke the terms and conditions of the authorization/Registration issued under the Rule – 7 of Hazardous and Other Wastes (Management and Tran boundary Movement) Rules, 2016.
10. You are directed to display on-line data/display board outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises. Necessary compliance should be sent within 15 days of receipt of this letter.
11. It is the mandatory duty of the authorized person/agency to comply with the guidelines for transportation of hazardous waste in accordance with rule 18 of Hazardous and Other Waste (Management and Tran boundary Movement) Rules, 2016.
12. It should be ensured that hazardous wastes shall be properly collected and packed in HDPE bags and then temporarily stored in a lined RCC tank/pit with suitable shed.
13. An ETP sludge test report of a laboratory approved under E.P. Act shall be submitted along with compliance of this letter of this office.
14. Used oil shall be sold only to recyclers registered with U.P. Pollution Control Board. The record shall be maintained.
15. The occupier, transporter and operator of a facility shall be liable for damages caused to the environment resulting due to improper handling and disposal of hazardous waste listed in schedule 1,2, and 3 and shall be liable to pay a fine as levied by the State Pollution Control Board under the rules.
16. Details of raw material (which is Hazardous waste) and product along with quantity shall be sent within a month.
17. You shall become the member of any common TSDF for S.L.F. which has been authorized by UPPCB and send the stored hazardous wastes for final disposal to the TSDF and report back to U.P.P.C.B. with the required manifesto (document of proof) within one/three month of this letter.
18. The unit shall ensure that H.W. is regularly sent to Authorized common TSDF and shall not store

for more than 90 days in accordance with under rule 8 of HOWM Rules, 2016.

19. Emission from the Common/Captive incinerator stack shall meet the prescribed standards under Environmental Protection Act. 1986.

20. Copies of Hazardous Waste Manifest in Form-10 shall be sent regularly to UPPCB for each category of waste sent to TSDF/Incinerator.

21. This authorization/Registration is valid till the industry is having valid consent as per the provisions of Air(Prevention and Control of Pollution) Act 1981 and Water (Prevention and Control of Pollution) Act, 1974.

22. Industry shall comply the provisions of EP Act, 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended and E-waste (Management and Handling) Rules, 2016.

23. The industry shall ensure renewal of agreement from TSDF before expiry date.

24. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

(Authorized Signatory)
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:07:38 +05'30'

Pramod Kumar Agarwal

UTTAR PRADESH POLLUTION CONTROL BOARD

Copy to: To the Regional Officer, U.P.Pollution Control Board, Regional Officer, ROUPPCB,
Lucknow. for information and necessary action .

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:09:58 +05'30'

CEO/EE, I/C Circle _____

Annexure – 02

Monitoring/Testing Report

**SIX MONTHLY
COMPLIANCE REPORT
(October, 2021 to March, 2022)**

Ambient Air : March, 2022
Stack Monitoring : March, 2022
Noise Monitoring : March, 2022
Ground Water : October, 2021 to March, 2022
Soil Quality : March, 2022

of

**Balrampur Chini Mills Limited
Unit: Gularia, Division: Chemical
Village: Gularia, P.O.: Nausar Gularia
Tehsil: Golagokarannath
District: Lakhimpur Kheri
Uttar Pradesh - 262901**



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ETRC/PM14/TE-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/5073/2021	Date of Report: 16.10.2021
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	11.10.2021	7	Analysis Start Date	11.10.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	15.10.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3026 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3026 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3026 (Part-16): 1984 Reaffirmed: 2017	388.4	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3026 (Part-40): 1991 Reaffirmed: 2019	59.2	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	28.24	0.2 - 400	90	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	30.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.36	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3026 (Part-28): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3026 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	28.4	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2920 B	284.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2940 C	256.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.12	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.03	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.58	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

..... END OF REPORT.....

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- The result relate only to the items tested.
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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/1711/9769/2021	Date of Report: 17.11.2021
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Khari (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	10.11.2021	7	Analysis Start Date	10.11.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	16.11.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	402.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	56.0	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	31.10	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	28.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.38	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1988 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1988 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	30.2	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	296.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	268.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 6.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.15	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.04	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.40	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	ug/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL-Below Detection Limit

..... END OF REPORT.....

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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TEs-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/5398/2021	Date of Report: 15.12.2021
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tahsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	08.12.2021	7	Analysis Start Date	08.12.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	14.12.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 ¹⁰ Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 ¹⁰ Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	412.6	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 ¹⁰ Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 ¹⁰ Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	52.8	2.0 - 800	75	200
9	Magnesium as Mg	mg/l	APHA 23 ¹⁰ Ed. 2017-3500 Mg, B	34.98	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 ¹⁰ Ed. 2017-4500-Cl B	32.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 ¹⁰ Ed. 2017-4500 F C	0.37	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 ¹⁰ Ed. 2017-5630 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 ¹⁰ Ed. 2017-4600- SO ₄ ²⁻	26.6	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 ¹⁰ Ed. 2017-2320 B	312.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 ¹⁰ Ed. 2017-2340 C	276.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 ¹⁰ Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 ¹⁰ Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 ¹⁰ Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.13	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.05	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.91	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/ 100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/ 100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

..... END OF REPORT.....

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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/5586/2022	Date of Report: 19.01.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Khari (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	industry self
3	Sample received date	13.01.2022	7	Analysis Start Date	13.01.2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	18.01.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	398.2	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	58.0	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	29.16	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	26.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.39	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	30.8	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	280.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.09	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.04	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.65	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

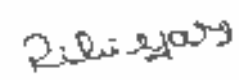
BDL=Below Detection Limit

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 Lab-Incharge




 Authorized Signatory
 (Ritu Garg)
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ETRC/PM14/TE5-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/5744/2022	Date of Report: 14.02.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	09.02.2022	7	Analysis Start Date	09.02.2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	14.02.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.6	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	418.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	62.4	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	30.13	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	30.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F ⁻ C	0.41	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-28): 1988 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3026 (Part-34): 1988 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.006	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	26.4	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	280.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.12	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.05	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.59	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 6.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL-Below Detection Limit

..... END OF REPORT.....

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ETRC/PM14/TE5-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/EPA/6008/2022		Date of Report: 26.03.2022	
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262801	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	66	66
(d)	Average ambient temperature (°C)	26	26
(e)	Time of Sampling Started (Hours)	09:42 am (21.03.2022)	09:42 am (21.03.2022)
(f)	Time of Sampling completed (Hours)	09:30 am (22.03.2022)	09:30 am (22.03.2022)
(g)	Total time of sampling (minutes)	24 hour (1422 minutes)	24 hour (1422 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.165	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1666.63	• 23.702
	• GAS (liter)	• 711.0	

TEST RESULT

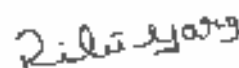
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m ³	82.5	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24) : 2019	µg/m ³	51.89	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2) : 2001 Reaffirmed: 2017	µg/m ³	14.56	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6) : 2006 Reaffirmed: 2017	µg/m ³	22.06	6.0 - 750	For 24 hour =80

..... END OF REPORT.....

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Lab-Incharge




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(Ritu Garg)
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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/6009/2022		Date of Report: 26.03.2022	
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Boiler House	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	56	56
(d)	Average ambient temperature (°C)	28	28
(e)	Time of Sampling Started (Hours)	09:55 am (21.03.2022)	09:55 am (21.03.2022)
(f)	Time of Sampling completed (Hours)	09:38 am (22.03.2022)	09:38 am (22.03.2022)
(g)	Total time of sampling (minutes)	24 hour (1419 minutes)	24 hour (1419 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.155	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1638.945	• 23.652
	• GAS (liter)	• 709.5	

TEST RESULT

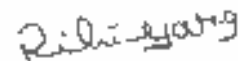
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	81.6	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	49.89	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	13.93	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	21.06	6.0 - 750	For 24 hour =80

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ETRC/PM14/TE5-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/8010/2022		Date of Report: 26.03.2022	
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kharl (UP) - 262901	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Gularia	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	56	56
(d)	Average ambient temperature (°C)	27	27
(e)	Time of Sampling Started (Hours)	09:45 am (22.03.2022)	09:45 am (22.03.2022)
(f)	Time of Sampling completed (Hours)	09:32 am (23.03.2022)	09:32 am (23.03.2022)
(g)	Total time of sampling (minutes)	24 hour (1425 minutes)	24 hour (1425 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.165	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1651.737	• 23.748
	• GAS (liter)	• 712.5	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2008 Reaffirmed: 2017	µg/m ³	89.6	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	45.90	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	12.42	6.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	17.38	6.0 - 750	For 24 hour =80

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ETRC/PM14/TEs-REP/FT/36

TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT


Test Report Ref No.: ETRC/EPA/6011/2022		Date of Report: 26.03.2022
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	21.03.2022
(b)	Stack material	RCC
(c)	Height of stack from ground level	80 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 No., 60 TPH
(f)	Type of fuel used	Slop + Bagasse
(g)	Details of APCS installed	ESP
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	29.0
(b)	Stack gas temperature (°C)	152.0
(c)	Stack gas velocity (m/sec)	12.10
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	65
(f)	Volume of air sampled (liters)	1040

TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing/ Limit of Detection
1	Particulate Matter (PM)	mg/Nm ³	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	86.6	2.0 - 1000
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS: 11255 (Part-2): 1985 Reaffirmed: 2014	26.2	1.0 - 2000
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	IS: 11255 (Part-1): 2008 Reaffirmed: 2017	56.4	2.0 - 1000
4	Carbon Dioxide (CO ₂)	%	ETRC/LABSOPA/11: 2015	11.2	0.1 - 20
5	Carbon Monoxide (CO)	%	ETRC/LABSOPA/13: 2015	0.53	0.01 - 5.0

..... END OF REPORT.....

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- All disputes subject to Lucknow jurisdiction.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Complaint register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-In-charge




Authorized Signatory
(Ritu Garg)
QM



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/261, Vishwas Khand, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etrindia.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

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TEST REPORT AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No.: ETRC/EPA/6012/2022		Date of Report: 26.03.2022
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
(a)	Date of monitoring	22/03/2022 (8:00 AM) to 23/03/2022 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Sampling Location	Within Plant Premises
(d)	Environmental Condition	Normal

TEST RESULT

Ambient Noise Level				
Sr. No.	Parameter	Unit	Results DAY TIME (8:00 AM - 10:00 PM)	Results NIGHT TIME (10:00 PM - 6:00 AM)
1	Equivalent sound level	dB(A)	62.14	60.28


Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

..... END OF REPORT.....

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- Complain register is available in our laboratory.


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(Sandeep Kr Verma)
Lab-Incharge**




**Authorized Signatory
(Ritu Garg)
QM**



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ETRC/PM14/TEST-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/6013/2022	Date of Report: 26.03.2022
Name /Address/Type of Industry	Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	ETRC Lucknow
3	Sample received date	23.03.2022	7	Analysis Start Date	23.03.2022
4	Sample Quantity	5.0 litre	8	Analysis End Date	26.03.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	6	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	416.4	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.08 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	50.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	29.16	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	28.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.38	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-28): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	30.1	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	292.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	272.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/6013/2022

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.10	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.04	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.71	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

..... END OF REPORT.....

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ETRC/PM14/TE5-REP/FT/38

TEST REPORT SOIL ANALYSIS

Test Report Ref No.: ETRC/EPA/6014/2022	Date of Report: 26.03.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Khari (UP) - 262901

SAMPLE DETAILS

1	Sampling Location	Near CPU	5	Packing Condition	Sealed
2	Sample Description	Soil Sample	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	23.03.2022	7	Analysis Start Date	23.03.2022
4	Sample Quantity	1.0 Kg	8	Analysis End Date	26.03.2022

TEST REPORT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.2	1 - 14
2	Electrical Conductivity	$\mu\text{mho/cm}$	IS: 14767: 2000 Reaffirmed: 2016	292	1 - 40000
3	Moisture content	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2015	2.85	1.0 - 50
4	Sulphur	Kg/Hec	IS : 14685: 1999 Reaffirmed: 2014	14.26	5.0 - 100
5	Boron as B	mg/kg	ETRC/ LABSOPS/06	BDL	4.0 - 100
6	Copper as Cu	mg/kg	ETRC/ LABSOPS/07	0.42	0.3 - 500
7	Zinc as Zn	mg/kg	ETRC/ LABSOPS/08	2.58	1.0 - 500
8	Iron as Fe	mg/kg	ETRC/ LABSOPS/09	24.26	5.0 - 500
9	Manganese as Mn	mg/kg	ETRC/ LABSOPS/10	8.12	5.0 - 500

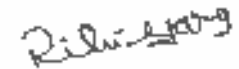
BDL = Below Detection Limits

..... END OF REPORT.....

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- Complete register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-In-charge




Authorized Signatory
(Ritu Garg)
QM

Annexure – 03

Copy of UPGWA NOC



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (E)

[See rules 15(2)]

(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)

VALID UP TO : 08/07/2026

Registration No.: 202105000150			
Name of the Owner	NIRMAL KUMAR AGARWAL		
Address of the Applicant	Balrampur Chini Mills Ltd.Unit-Gularia,Division-Chemical VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901U.P	Application Form Serial No.	LMPK0521RIN0028
Date of Submission	15/05/2021	Specimen Signature	
Company Name	Balrampur Chini Mills Ltd UnitGularia Div. Chem.	Company Address	Vill Gularia P.O. Nausar Gularia Distt. Lakhimpur
Location Particulars			
District	Lakhimpur Kheri	Block	BIJUA
Plot No./Khasra No.	LAND DETAILS ENCLOSED.	Municipality/Corporation	Yes
Ward No./Holding No.			LAND DETAILS ENCLOSED.
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/05/2019		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	130.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	25.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	140.00
Date of Energization (In Case of Electric Pump)	01/01/2020		
Maximum Allowable Rate of Withdrawal (m3/hr.):	140.00	Maximum Allowable Running Hours Per Day:	3.00
Maximum Allowable Annual Extraction of Ground Water:			151200
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Date of expiry of CGWA NOC is 27 May 2021		
Against Case			
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (3) for extraction of ground water			

at a rate not exceeding that as shown at Sl. (3j), for running hours 1 day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) In case, any of the particulars or information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
 - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
 - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
 - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site-specific requirement regarding safety and access for measurement may be taken care off.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars or information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
 - (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.

- iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
- iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 15 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
- v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
- vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
- vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

This certificate is electronically generated and does not require digital signature



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (E)

[See rules 15(2)]

(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)

VALID UP TO : 08/07/2026

Registration No.: 202105000152			
Name of the Owner	NIRMAL KUMAR AGARWAL		
Address of the Applicant	Balrampur Chini Mills Ltd.Unit-Gularia,Division-Chemical VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901U.P	Application Form Serial No.	LMPK0521RIN0029
Date of Submission	15/05/2021	Specimen Signature	
Company Name	Balrampur Chini Mills Ltd Unit Gularia Div. Chem.	Company Address	Vill Gularia P.O. Nausar Gularia Distt. Lakhimpur
Location Particulars			
District	Lakhimpur Kheri	Block	BIJUA
Plot No./Khasra No.	LAND DETAILS ENCLOSED.	Municipality/Corporation	Yes
Ward No./Holding No.			LAND DETAILS ENCLOSED.
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/05/2019		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	130.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	25.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	140.00
Date of Energization (In Case of Electric Pump)	01/01/2020		
Maximum Allowable Rate of Withdrawal (m3/hr.):	140.00	Maximum Allowable Running Hours Per Day:	4.00
Maximum Allowable Annual Extraction of Ground Water:			201600
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Date of expiry CGWA NOC is 27 May 2021		
Against Case			
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (3) for extraction of ground water			

at a rate not exceeding that as shown at Sl. (3j), for running hours 1 day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) In case, any of the particulars or information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
 - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
 - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
 - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No. of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone tapped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site-specific requirement regarding safety and access for measurement may be taken care off.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars or information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.

- iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
- iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 15 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
- v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
- vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
- vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

This certificate is electronically generated and does not require digital signature

Annexure – 04

Photographs



Pic :- 1 RCC Stack (Height -80mtr) alongwith Online Dust Monitoring System



Pic :- 2 Multi-effect Evaporator



Pic :- 3 Slop fired Boiler alongwith ESP (Incineration Boiler)



Pic :- 4 CPU (UASBR)



Pic :-5 RO Plant



Pic :- 6 Aerial View of CPU/ERP Plant



Pic-7 Mass Flow Meter Inlet/Outlet Of MEE Plant



Pic-8 Two Nos. Of Web Camera at Spent wash Storage Lagoon & MEE/Incineration Area



Pic -9 Green Belt at CPU Area



Pic-10 Green Belt at fermentation area



Pic-11 Green Belt at Distillation Area



Pic-12 Green Belt at spent wash Storage area



Pic-13 Green Belt at spent wash Storage area



Pic-14 Green Belt at Distillation Area



Pic-15 Co₂ Plant



Pic-16 Plantation of Plants



Pic-17 Plantation of Plants



Pic-18 Plantation of Plants

Annexure – 05

MoEF Office Memorandum

F.No.22-65/2017-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan
Jor Bagh Road, Aligarj
New Delhi - 110003
e-mail: sharath.kr@gov.in

Dated: 30th September, 2020

Office Memorandum

Sub: Deliberation on the commitments made by project proponent and requirements to address the concerned raised during the public consultation and prescribe as specific condition(s) while recommending the proposal, for prior environment clearance, in physical terms in lieu of Corporate Environment Responsibility (CER) – regarding.

This is in supersession of the OM of even number dated 1st May, 2018, regarding guidelines in respect of Corporate Environment Responsibility. Ministry is in receipt of several representations regarding imposition of certain percentage of project cost or expansion cost as Corporate Environment Responsibility. Further, the said OM was also challenged before the Hon'ble High Court of Delhi in WP(C) No. 13252/2019 in the matter of CREDAI, NCR Versus Union of India and Ors.

The matter has since been examined in the Ministry and it is hereby decided that henceforth the Expert Appraisal Committee or State Level Expert Appraisal Committee shall deliberate on the commitments made by the project proponent to address the concerns raised during the public consultation and prescribe specific condition(s) in physical terms while recommending the proposal, for grant of prior environment clearance instead of allocation of funds under Corporate Environment Responsibility.

Further, it is directed that all the activities proposed by the project proponent or prescribed by the Expert Appraisal Committee or State Level Expert Appraisal Committee, as the case may be, shall be part of the Environment Management Plan.

This issues with the approval of competent authority.


(Sharath Kumar Palleria)
Scientist 'F'/Director (IA-Policy)

To,

1. Chairman and Member Secretary of Central Pollution Control Board

2. Chairpersons and Members of all the Expert Appraisal Committees
3. Chairpersons and Member Secretaries of all the SEIAA/SEACs
4. Chairpersons and Member Secretaries of all SPCBs/UTPCCs
5. Member Secretaries of all the Expert Appraisal Committees
6. All the officers of IA Division

Copy for information to:

1. PS to Minister for Environment, Forest and Climate Change
2. PS to MoS for Environment, Forest and Climate Change
3. PPS to Secretary (EF&CC)
4. PPS to AS(RA) / AS(RSP)
5. PPS to JS(GM) / JS(AKN)/JS(SKE)
6. Website, MoEF&CC
7. Guard File.

Sherath
20/9/2020
[Sherath Kumar Pallerla]
Scientist 'F'/Director (IA-Policy)

Annexure – 06

Health Record of Employees

Ref. No GCM/Medical/2022

Date- 22/03/2022

CERTIFICATE

The health check-up program of all officers and employee of distillery division is organized by the company in the factory campus. We have under taken medical check-up of officers and workers of the company and no occupational disease were found.

For Balrampur Chini Mills Ltd.

Unit- Gularia



Sr. Medical Officer
Dr. V. P. Singh
Medical Officer
Balrampur Chini Mills Ltd.
Unit-Gularia

BLARAMPUR CHINI MILLS UNIT- GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 22/03/2022

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS									REPORT	
				WEIGHT (KG.)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	Spo2 (%)	PULSE / MIN.	ABDOMEN	CHEST	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
1	Ajay Kumar Yadav	Sri Ram Kishu Yadav	Pump operator	55	5.3	89	120/80	99	-	soft	clear	-	✓	
2	Amarjeet Yadav	Sri Lallan Prasad Yadav	Fermentation opt.	70	5.7	90	119/70	97	-	soft	clear	114	✓	
3	Niraj Kumar Singh	Sri Mukhlal Singh	fitter	51	5.7	90	100/70	97	-	Soft	clear	-	✓	
4	Ajeet Kumar Srivastava	Sri Yogendra Mohan Srivastava	officer (commercial)	78	5.6	102	116/74	99	-	Soft	clear	345	✓	
5	Bhism dev Yadav	Sri Visham dev Yadav	Asst. officer warehouse	89	6.0	84	118/80	99	-	Soft	clear	117	✓	
6	Ram babu Sharma	Sri. Lakshmi Prakar	Head fitter	64	5.6	84	118/80	98	-	Soft	clear	274	✓	
7	Arun Kumar Singh	Sri Ranjya Singh	Sri distillation opt.	80	5.6	68	110/74	99	-	Soft	clear	111	✓	
8	Lal Baladur	Sri Harihar Baladur	fitter	67	5.7	90	120/80	95	-	soft	clear	97	✓	
9	Mukesh Chandra Gupta	Sri Bal Ram Prasad Gupta	Sri distillation opt.	81	5.5	100	140/80	96	-	Soft	clear	153	✓	
10	Praveen Kumar Yadav	Sri Ramdyan Yadav	Sri Typist	78	5.4	100	110/74	99	-	Soft	clear	110	✓	
11	Rajnish Chandra	Sri Ramchandra Lal	manager Engineering	129	6.0	107	110/80	99	-	Soft	clear	161	✓	
12	Vivek Gupta	Sri Chandra Shekhar Gupta	G.T.E Engg	140	6.3	82	120/90	98	-	Soft	clear	120	✓	
13	Badari Manojan Sharma	Sri Ram Chhag Sharma	Sri Instrument Technician	52	5.4	86	100/70	97	-	Soft	clear	118	✓	


Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia

MEDICAL OFFICER

BLARAMPUR CHINI MILLS UNIT- GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 29/03/2022

NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS									REPORT	
				WEIGHT (KG.)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	SpO2 (%)	PULSE / MIN.	ABDOMEN	CHEST	BLOOD SUGAR (K) mg/dl	FIT	UNFIT
4	Rajeev Kaushik	Sri ved Prakash Chame	Sr. Dy. manj. Production	89	5.7	86	170/90	99	-	Soft	clear	133	✓	
5	Anuj Kumar Subty	Sri Anudhish Kumar Subty	warehouse clerk	62	5.9	78	110/80	98	-	Soft	clear	100	✓	
6	varun Kumar	Sri veer singh	Tr. chemist	62	5.11	77	110/70	98	-	Soft	clear	83	✓	
7	Surya Pratap singh	Sri. Jang Bahadur singh	Tr. chemist	65	5.11	86	119/70	97	-	Soft	clear	-	✓	
8	Subitran Roy	Sri Santanu Roy	Tr. chemist	79	5.8	66	112/80	98	-	Soft	clear	100	✓	
19	Chandro Sekhar singh	Sri Kashinath singh	CPU chemist	62	5.8	88	120/80	97	-	Soft	clear	118	✓	
20	Moh. Ashif	Sr. Moh. Hasam	weighment clerk	54	5.2	78	99/70	96	-	Soft	clear	-	✓	
21	Harish singh	Sri Ram singh	Sr. Dispenser Opt.	67	5.6	68	110/70	97	-	Soft	clear	99	✓	
22	Pradeep Kumar Bajpai	Sri umar chand	CPU chemist	75	5.10	76	110/74	96	-	Soft	clear	105	✓	
23	Rachit Gupta	Sri Pramod Kumar Gupta	Pump Opt.	82	5.5	90	120/80	96	-	Soft	clear	-	✓	
24	Vinod Kumar Mishra	Sri Lallesh Mishra	chief man. Production	87	5.8	96	120/86	98	-	Soft	clear	168	✓	
25	Pradeep Kumar Pandey	Sri Surya Pal Pandey	Asst man. Production	82	5.7	94	118/80	98	-	Soft	clear	105	✓	
26	Amresh Kumar Tiwari	Sri Shash Kant Tiwari	Sr. MPE Opt.	65	5.7	100	122/90	98	-	Soft	clear	100	✓	


Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia

MEDICAL OFFICER

BLARAMPUR CHINI MILLS UNIT- GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 22/03/2022

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS									REPORT	
				WEIGHT (KG.)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	Spo2 (%)	PULSE / MIN.	ABDOMEN	CHEST	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
27	Mamraj Kumar Mishra	Sri Prabhakaran Mishra	Fermentation Opt.	73	5.5	76	130/100	98	-	Soft	clear	128	✓	
28	Yogendra Yadav	Sri Ram Ashar Yadav	Fermentation Opt.	73	5.4	100	120/79	99	-	Soft	clear	111	✓	
29	Ardhesh Kumar	Sri Surendra Mishra	Ev. Electrician	66	5.8	84	110/74	97	-	Soft	clear	144	✓	
30	Dharmendra Nath Pandey	Sri Ram Tiwar Pandey	Asst. man. Production	85	5.11	77	110/79	97	-	Soft	clear	131	✓	
31	Sunil	Sri Bali Ram	Instrument Technician	62	5.4	90	119/70	99	-	Soft	clear	-	✓	
32	Jitendra Kumar	Sri Umashankar Pandey	Fitter	62	5.4	94	100/70	95	-	Soft	clear	-	✓	
33	Raman Kumar Varma	Sri Raj Kishor Varma	Ev. MFE Opt.	94	5.11	92	120/82	97	-	Soft	clear	-	✓	
34	Arun Kumar Mishra	Sri Ramayan Mishra	MFE Opt.	72	5.5	80	110/70	96	-	Soft	clear	-	✓	
35	Hare Krishna Singh Tomu	Sri Jagdish Singh Tomu	CPU Chemt	69	5.6	99	122/84	99	-	Soft	clear	114	✓	
36	Hitin Kumar Singh	Sri Anoop Kumar Singh	Tr. Engineer Electrical	66	5.3	64	100/70	98	-	Soft	clear	-	✓	
37	Vipin Kumar	Sri Buddha Singh	Dipman	65	5.2	82	120/82	99	-	Soft	clear	-	✓	
38	Subhash Kumar	Sri Harsh Kishor Singh	Turbine Opt.	70	5.7	78	116/80	99	-	Soft	clear	110	✓	
39	Milesh Kumar	Sri Phool Singh	Boiler Attendant	59	5.8	80	112/64	99	-	Soft	clear	-	✓	


 Dr. V. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia
MEDICAL OFFICER

BLARAMPUR CHINI MILLS UNIT- GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 22/03/2022

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS									REPORT	
				WEIGHT (KG.)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	Spo2 (%)	PULSE/Min	ABDOMEN	CHEST	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
0	Om Prakash Yadav	Sri Banta Yadav	fitter	63	5.8	100	108/84	99	-	Soft	clear	-	✓	
1	Balkeph	Si Lalman	Boiler Attendant	71	5.5	82	118/80	98	-	Soft	clear	-	✓	
2	Saabhram Gang	Sri Anil Kumar Gupta	Tr. chemist	70	5.5	100	114/82	98	-	Soft	clear	-	✓	
3	Vinay Kumar	Sri Mahender Singh	Auxiliary attendant	70	5.5	90	118/80	98	-	Soft	clear	99	✓	
4	Sanider Chaurasia	Sri Ramesh Chaurasia	De.s. Engineer	59	5.4	82	114/70	97	-	Soft	clear	-	✓	
5	Amit Kumar Dwivedi	Sri Gaurti Dwivedi	Auxiliary attendant	64	5.5	84	118/80	98	-	Soft	clear	110	✓	
6	Prifarmedeen Jaiswal	Sri Magesh Lal Jaiswal	Sr fitter	71	5.5	66	114/70	97	-	Soft	clear	102	✓	
7	Pankaj Kumar Vora	Sri. Om Prakash	officer Production	65	5.3	129	169/106	99	-	Soft	clear	527 (Hemoglobin-380)	✓	
8	Devenchre Kumar Rahuf	Sri Ram das Yadav	Jr. Eng. DCS	72	5.7	82	118/78	99	-	Soft	clear	-	✓	
9	P Satish Kumar	Sri. T. K. Palanisamy	Sr Eng. (Inst & electric)	61	5.7	94	116/80	96	-	Soft	clear	127	✓	
10	Ajay Singh Gaetan	Sri Shiv Pratap Singh	Sr. Electrician	60	5.5	99	106/64	97	-	Soft	clear	98	✓	
11	Santosh Kumar Vishwakarma	Sri Ganesk Prasad Vishwakarma	Electrician	61	5.7	84	99/69	99	-	Soft	clear	113	✓	
12	Lal Chandan Pandit	Sri Gauram Pandit	Stone clerk	80	5.5	106	190/100	97	-	Soft	clear	214	✓	


Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia
MEDICAL OFFICER

BLARAMPUR CHINI MILLS UNIT- GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 22/03/2022

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS									REPORT	
				WEIGHT (KG.)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	Spo2 (%)	PULSE / MIN.	ABDOMEN	CHEST	BLOOD SUGAR (R) mg/dl	FIT	UNFIT
53	Ajay Kumar Yadav	Sri Jai Prasan Yadav	Fitter	60	5.6	80	122/82	98	-	Soft	clear	131	✓	
54	Virendra Kumar	Sri Ram Mohan	Boiler Attendant	60	5.5	92	100/79	95	-	Soft	clear	115	✓	
55	Kankaiya Singh	Sri Hari Pal Singh	Bagasse Conv attend.	82	6.0	99	118/89	96	-	Soft	clear	-	✓	
56	Abhimanyu Nam Hwar	Sri. Harrendu Nam Hwar	Instrument technician	75	5.4	116	120/80	98	-	Soft	clear	87	✓	
57	Abid Hasan	Sri Akhtar Hasan	manojv Boiler & P P	95	5.10	82	120/80	96	-	Soft	clear	139	✓	
58	Ravikant	Sri Shivsankar Lal	Bagasse conv attendant.	52	5.5	72	100/70	97	-	Soft	clear	-	✓	
59	Samir Kumar Yadav	Sri Salik Ram Yadav	Bagasse conv attendant.	65	5.6	87	116/80	99	-	Soft	clear	-	✓	
60	Dhanraj Shrivastava	Sri Paghunam Shrivastava	fitter	57	5.3	72	122/89	96	-	Soft	clear	-	✓	
61	Ranjay Kumar Yadav	Sri Brij Bihari Yadav	fitter	52	5.6	68	118/89	96	-	Soft	clear	-	✓	
62	Chandan Kumar Yadav	Sri Ram Prasad Yadav	Instrument. tech.	65	5.6	79	119/80	97	-	Soft	clear	-	✓	
63	Ajay Rai	Sri Jagannathan Rai	Auxiliary Attendant	59	5.11	70	136/82	98	-	Soft	clear	-	✓	


Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.
 Unit-Gularia
 MEDICAL OFFICER

Annexure – 07

Copy of Environmental Management Cell

BALRAMPUR CHINI MILLS LIMITED
UNIT-GULARIA: DIVISION-CHEMICAL


GCM/EC/940

Date:01-03-2021

REVISED-ENVIRONMENTAL MANAGEMENT CELL

In order to ensure compliance of the terms and conditions of Environmental Clearance granted by the Govt. of India, Ministry of Environment, Forest & Climate Change, New Delhi vide letter No.F.No.J-11011/236/2018-IA-II(I) dated 05-11-2019, Point No. 9.1 (x) wherein it is mentioned that a separate Environmental Management Cell equipped with full-fledged laboratory activities shall be set up to carry out the Environmental Management and Monitoring functions, the undersigned is pleased to constitute a Revised Environmental Management Cell as under who will oversee in the matter.

Sl.	Name	Designation	Duties Performed
1.	Mr.N.K.Agarwal	Executive President	Overall Incharge of Unit
2.	Mr.Sanjay Kr.Mishra	DGM (Power Plant)	Overall Incharge of Power Plant
3.	Mr.Ajay Kr. Srivastava	Chief Manager (QC)	Incharge of Sugar E.T.P.
4.	Mr.Vinod Kr. Mishra	Manager (Prodn.), Distillery	Incharge of Distillery Process & Environment.
5.	Mr.Lakhan Lal Trivedi	Manager (HR & Admin.)	Overall Incharge of Personnel & Administration.
6.	Mr.Satendra Kr.Singh	Dy.Manager (Horticulture)	Incharge of Horticulture
7.	Mr.Niwas Kapri	Assistant Manager (Security)	Incharge of Security & Safety.
8.	Mr.Rakesh Pal	Safety Officer (M/s.Katyayan Security)	Incharge of Safety.


[N.K.AGARWAL]
EXECUTIVE PRESIDENT
10/1/21

BALRAMPUR CHINI MILLS LIMITED
UNIT-GULARIA, DIVISION-CHEMICAL

GCM/EHS/Distillery/ 597

Date:01-03-2021

REVISED EHS COMMITTEE

In order to implement Environmental, Health and Safety Policy of Balrampur Chini Mills Limited, Unit-Gularia, Division-Chemical, we are constituting revised EHS Committee as follows :-

1.	Shri Vinod Kr.Mishra	Manager (Prodn.)	Committee Head
2.	Shri Sanjay Kr.Mishra	DGM (PP)	Member
3.	Shri Lakhan Lal Trivedi	Manager (HR & Admin)	Member
4.	Shri Rajneesh Chandra	Manager (Engg.)	Member
5.	Shri Abid Hassan	Manager (Boiler & PP)	Member
6.	Shri Niwas Kapri	Asstt.Manger (Security)	Member
7.	Shri Rajesh Pal	Safety Officer	Member
8.	Shri Badri Nath Sharma	Sr.Instrument Technician	Member
9.	Shri Ram Babu Sharma	Fitter	Member

The committee will meet quarterly to review all the training programmes and compliances in accordance with EHS Policy in the Distillery unit . The committee will also submit a report to the undersigned for our perusal and further advice in the matter, if required.


[N.K.AGARWAL]
EXECUTIVE PRESIDENT


Annexure – 08

Copy of Environmental Clearance

F. No.J-11011/236/2018-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jor bagh Road, New Delhi - 3
Dated. 5th November, 2019

To,

M/s Gularia Chini Mills, Distillery Unit
(A unit of Balrampur Chini Mills Limited),
Village Rudrapur Gularia, Tehsil Golagokarannath,
District Lakhimpur Kheri (UP)

Sub: Setting up molasses based distillery of 160 KLD by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No.IA/UP/IND2/75830/2018 dated 27th March, 2019, for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) in an area of 8.747 ha located at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP). The project also involves installation of 8 MW Co-generation power plant.
3. Land area available for the project is 8.747 ha. Industry shall develop greenbelt in an area of-2.88 ha, covering 33% of total project area. The estimated project cost is Rs 208 742 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 110 crores and the recurring cost (operation and maintenance) will be about Rs 11 crores per annum. Employment opportunity will be for 160persons.
4. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and Wildlife Corridors etc. within 10 km from the project site. Sharda River flows at 6.6 km in the East direction from the project location.
5. Total water requirement is estimated to be 2816 cum/day, which includes fresh water requirement of 960 cum/day, proposed to be met from ground water. The proposal in this regard has been recommended to CGWA by CGWB (Northern Region), Lucknow vide letter dated 22nd February, 2019.

Spent wash of 800 cum/day shall be treated in MEE and concentrate from MEE will be incinerated in Slop fired boiler. Other effluent of 1139 cum/day shall be treated through Condensate Polishing unit. Treated effluent shall be reused/recycled in the process/boiler/cooling tower. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement of 4.5 MW shall be met from own Co-Generation plant. Unit will install Strop fired boiler of 60 TPH capacity. Electro static precipitator with a stack of height of 72m will be installed to control particulate emissions.

Carbon di oxide will be generated from fermentation process shall be recovered from the process and sold to beverage industry. Ash of 60.03 TPD will be mixed with fermenter sludge and utilized as manure, in the proposed granulation plant.

6. The project/activity is covered under category A of item 5 (g) 'Distilleries' of the schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal/approval at Central level in the Ministry.

7. Standard Terms of Reference for the project was issued on 24th August, 2018. Public Hearing for the proposed distillery project has been conducted by the State Pollution Control Board on 22nd February, 2019. The main issues raised during the public hearing are related to employment, health issues, waste water, water sources and odour issues, etc.

8. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 6-8 May, 2019 & 26-28 June, 2019. The project proponent and their accredited consultant M/s Ascenso Enviro Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory, in consonance with the presented ToR, and recommended the project for grant of environmental clearance.

9. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills** at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

(a) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board as required.

(b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(d) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(e) Coal shall not be used as fuel in boiler.

(f) Total fresh water requirement shall not exceed 960 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

- (g) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- (h) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (i) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (j) The company shall undertake waste minimization measures as below:-
- (i) Metering and control of quantities of active ingredients to minimize waste.
 - (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - (iii) Use of automated filling to minimize spillage.
 - (iv) Use of Close Feed system into batch reactors.
 - (v) Venting equipment through vapour recovery system.
 - (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (k) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (l) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.
- (m) At least 5% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (n) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (o) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (p) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (q) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- (r) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (s) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit

shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

(i) CO₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.

9.3 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.

(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

(iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(vi) The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.

(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.

(viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(xiv) The environmental statement for each financial year ending 31st March in Form V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.


(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.mca.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

12. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.


(Dr. R. B. Lal)
Scientist E

Copy to:

1. The Additional Principal Chief Conservator of Forests, MoEF&CC, Regional Office (CZ) Kendriya Bhavan, 5th Floor, Sector H, Aliganj, **Lucknow** - 226020
2. The Principal Secretary, Department of Environment, Government of Uttar Pradesh, Sachivalaya, Babu Bhawan, Adjacent to Vidhan Sabha, **Lucknow** - 226001 (UP)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Uttar Pradesh Pollution Control Board, PICUP Bhawan, Vibhuti Khand, Gomti Nagar, **Lucknow** (UP)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi** - 3
6. Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Man Singh Road, **New Delhi**-110011
7. District Collector, **Lakhimpur Kheri (UP)**
8. Guard File/Record File/Monitoring File/Website of MoEF&CC

(Dr R B Lal)
Scientist E

Annexure – 09

CER ACTIVITY PHTOGRAPHHS



ITI COLLEGE COMPUTER SKILL LAB



ITI COLLEGE COMPUTER SKILL LAB



BENCH & DESK DISTRIBUTION IN GOVT. SCHOOL



BENCH & DESK DISTRIBUTION IN GOVT. SCHOOL



PAHADAPUR VILLAGE TALAB RENNOVATION



PAHADAPUR VILLAGE TALAB RENNOVATION



RAIN BASERA BUILDING IN BIJUWA CHC

सूरज सिंह

हिन्दुस्तान

बिजुआ सीएचसी में रैन बसेरे का तोहफा

बिजुआ-खीरी। बलरामपुर फाउंडेशन के तहत गुलरिया चीनी मिल ने बिजुआया सीएचसी पर एक रैनबसेरा का निर्माण कराया। इसका शुभारम्भ भाजपा जिलाध्यक्ष सुनील ने फीता काटकर किया।

बिजुआ सीएचसी ब्लॉक कस्बा होने के बावजूद यहाँ किसी फरियादी या तोमारदार के रुकने की कोई व्यवस्था नहीं थी। लोगों को इधर उधर भटकना पड़ता था। जिसकी समस्या को देखते हुए गुलरिया चीनी मिल ने बलरामपुर फाउंडेशन के तहत वहाँ एक रैनबसेरा का निर्माण कराया। करीब 22 लाख की लागत से बने रैनबसेरा का शुभारम्भ बुधवार को भाजपा के जिलाध्यक्ष सुनील सिंह ने



बिजुआ सीएचसी में रैनबसेरा का उद्घाटन करते जिलाध्यक्ष सुनील सिंह

फीता काटकर किया। इस दौरान चीनी मिल के एसआर हेड लखनलाल जिवेदी, सीएचसी अधीक्षक अमित

सिंह, अभिनेप मिश्रा, सन्तोष सिंह, उपेंद्र मिश्रा, मनोज अवस्थी, धीरेन्द्र सिंह, फौजी ओमकार सिंह मौजूद रहे।

RAIN BASERA BUILDING IN BIJUWA CHC



**Half - Yearly Compliance Report
On
Environmental Clearance Conditions**

(MoEF & EE Letter No. J-11011//236/201/-IA-II (I) Dated 5th November 2019)

Period: April-2021 to September-2021

**Submitted By:
M/s Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Distillery
P.O.-Nausar Gularia,
Distt:- Lakhimpur Khiri (U.P.)
Pin-262901**



BALRAMPUR CHINI MILLS LIMITED

UNIT-GULARIA

FACTORY ADDRESS : GULARIA CHINI MILLS, VILL. GULARIA, P.O. NAUSHAR GULARIA, DISTT. : LAKHIMPUR KHERI (U.P.) PIN-262801
PHONE : 05870-242902/908, 9721450393, 9455369547 SUPERFAX : 011-43850308, E-mail: bcml.gcm@bcml.in
CIN: L15421WB1875PLC030118, GSTIN: 09AAACB9373Q1ZW

GCM/EC Compliance Report/ 2514

Dated: 17-11-2021

The Joint Director (Scientist)
Ministry of Environment, Forest and Climate Change
Kendriya Bhawan, 5th Floor
Sector-H, Aliganj,
Lucknow-226024

Sub: Six Monthly Environmental Compliance Report & Data Sheet

Ref.:

1. Environmental Clearance letter No. J-11011/236/2018-IA-II(I) dated 5th November-2019 issued by the Scientist E, GOI, MoEF&CC, (IA-II Section), New Delhi
2. Your letter No. File No.IV/Env/UP/Ind-172/538/2019/397 dated 18-11-2019

Dear Sir/Madam,

With reference to above, we are enclosing herewith six monthly Environmental Compliance Report along with Data Sheet of our Chemical Division for the period from April-2021 to September-2021 as per Environmental Clearance issued by the Scientist E, GOI, Ministry of Environment, Forest & Climate Change vide his letter No. J-11011/236/2018-IA-II(I) dated 5th November-2019 for your needful please.

Thanking you,

Yours faithfully
For Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Distillery


AUTHORISED SIGNATORY

Encl: As above

BALRAMPUR CHINI MILLS LTD.: UNIT-GULARIA, DIVISION-CHEMICAL
Vill.-Gularia P.O-Nausar Gularia, Distt-Lakhimpur Kheri-262901(U.P)
Sub-Compliance of Condition stipulated in Environmental Clearance issued for 160 KLD
Molasses Based Distillery vide MOEF & CC Environmental clearance Letter
No-F.No.J-11011/236/2018-IA-II(I), Dated-5th November, 2019.

Period of Compliance-April-2021 to September-2021

(A)	General Conditions	
S.No.	Conditions	Compliance Status
9 (a)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable from time to time, shall be obtained from the state Pollution control Board as required.	<p>All the Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable obtained from UPPCB, Lucknow as under :-</p> <p>1.) Consent Order (CTO) under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent vide letter No. 108580/UPPCB/ Lucknow (LAB)/ CTO/air/LUC dated 05/12/2020.</p> <p>2) Consent Order (CTO) under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) vide letter No. 108586/UPPCB/ Lucknow (LAB)/ CTO/air/Lucknow/2020 dated 05/12/2020. Annexure-1.</p>
(b)	As already committed by the project proponent, Zero liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	<p>Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve Zero Liquid Discharge and we are maintaining the same.</p> <p>Effluent other than spent wash like spent lees, Process condensate and utilities effluent is being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP), and treated water from CPU/ERP is being used in process & cooling tower makeup water.</p>

(c)	Necessary authorization required under the hazardous and other wastes (Management and Trans boundary Movement) Rules, 2016, solid waste management rules, 2016 shall be obtained and the provisions contained in the rules shall be strictly adhered to.	We have receipt Authorization for Hazardous Wastes from UPPCB, Lucknow. Ref.No. 11713/UPPCB/Lucknow(UPPCBRO)/HWM/L AKHIMPUR KHIRI/2020 dt. 04/05/2020 Annexure-1
(d)	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	The gaseous emissions from various process units is as per load/mass based standards notified by the Ministry on 19th May, 1993 and standards prescribed from time to time by CPCB and UP Pollution Control Board. Stack Emission Monitoring Report is enclosed as Annexure-2.
(e)	Coal shall not be used as fuel in Boiler.	We are using only Slop & Bagasse in Incineration Boiler as a fuel for Steam and power generation.
(f)	Total fresh water requirements shall not exceed 960 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regards.	We have obtained necessary NOC from UPGWA, Lucknow vide Registration no. 202105000150, 202105000152 which is valid upto 08-07-2026. Annexur-3.
(g)	Hazardous chemical shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvents transfer through pumps.	We have already stored all the Hazardous chemical in tanks, tank farms, drums, carboys etc. Flame arrester is also provided on tank farm and the solvents transfer through pumps.
(h)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed-off to the TSDF.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and are in process to produce produced Granular potash in Granulation Plant.
(i)	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of hazardous Chemical (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.	The company has strictly complied with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.
(j)	The company shall undertake waste minimization as below:-	
(i)	Meeting and Control of quantities of active ingredients to minimize waste.	We are using ingredients in optimum quantity for the control of wastage.

(ii)	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and are in process to produce produced Granular potash in Granulation Plant.
(iii)	Use of automated filling to minimize spillage.	Automated filling system is already installed to minimize spillage.
(iv)	Use of close feed system into batch reactors.	Close feed system are used into batch reactors.
(v)	Venting equipment through vapour recovery system.	We have proper arrangement for vapour recovery System.
(vi)	Uses of high pressure hoses for equipment's cleaning to reduce waste water generation.	We are using High Pressure Jet Cleaning Machine for equipment's cleaning to reduce waste water generation.
(k)	The green Belt of 5-10m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road side etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State forest Department.	Provision of green belt in 33% of total project area has already been taken place and plantation is being done regularly inside factory premises as per CPCB & DFO advice. We have planted 6000 plants up to 30.09.2021.(Annexure-4)
(l)	All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.	All the Commitments made during the Public Hearing are complied.
(m)	At least 5% of the total project cost shall be allocated for Corporate Environmental Responsibility (CER) and item wise details along with time bound action plan shall be prepared and submitted to the Ministry regional Office.	As per the MoEF Office Memorandum dated 30.09.2020 superseding the Office Memorandum dated 01.05.20218 regarding Corporate Environmental Responsibility, the unit is committed and is providing education funds in training centers/support in nearby villages school, support in health care facilities, drinking water supply, and allocated funds for miscellaneous activities like solar street lights, battery, solar panel etc. in nearby villages. Copy of the Office memorandum dated 30.09.2020 is enclosed as Annexure-5.
(n)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustics enclosures shall be provided to DG set for controlling the noise pollution.	DG sets emission limits and stack height is as per conformity with extant regulations and the CPCB guidelines. Acoustics enclosures provided to DG Set for controlling the noise pollution.

(o)	The unit shall make the arrangement for protection of possible fire hazardous during manufacturing process in material handling. Firefighting system shall be as per the norms.	Industry has already installed well established firefighting arrangement for protection of possible fire hazardous during manufacturing process in material handling. All the Firefighting system is as per the norms.
(p)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	An occupational health Surveillance program is already in our system. Medical facilities have been provided by industry for proper checkup the health of employees. For this purpose industry has well equipped hospital inside the factory Campus for regular monitoring of the employee's health and medical records of each employee are also maintained. Report is enclosed as Annexure-6.
(q)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Industry has already earmarked adequate space inside the plant premises for parking of vehicles for raw materials and finished products.
(r)	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	We have provided MS tanks for storage of raw material i.e. Molasses to prevent dust pollution and other fugitive emissions.
(s)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Online monitoring system (24 X 7 Monitoring devices) has been installed at stack emission, spent wash generation & slop consumption in boiler. As this is a zero liquid discharge based unit, hence web camera has been installed as per CPCB guidelines near spent wash storage lagoon and MEE & Incineration area of Distillery.
(t)	CO2 generated from the process shall be bottled/made solid ice and sold to authorize vendors.	Co2 Plant installed and Production of Liquid Co2 and Dry Ice started on dated 01.03.2021 and sold to authorized vendors.
S.No.	(A) Specific Conditions	Compliance Status
9.1	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) State Government and / or any other statutory authority.	Being adhered as per the stipulation made by UP Pollution Control Board and the State Government.

ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No expansion or modification work has been carried out without prior approval of The Ministry of Environment, Forest and Climate Change.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concern stations are anticipated.	Ambient Air quality monitoring stations have already been set up in consideration of maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission are regularly submitted to UPPCB/CPCB and Regional Office, of MoEF&CC at Lucknow once in six months. Ambient Air Quality Monitoring Report is enclosed as Annexure-2.
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009 shall be complied with.	We have already complied The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009. Ambient Air quality Report are attached as Annexure-2.
v	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dEA (night time).	We have already provided noise control measures including acoustic hoods, silencers, enclosures etc. on all the noise generating sources to maintain the overall noise level in and around the plant area are within the Standards (85dBA). Noise control measures has already been planned and enclosures would be put to keep the ambient noise level below 75 dBA (day time) and 70 dBA (night time). Noise Level Monitoring Report is enclosed as Annexure-2.
vi	The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.	Rain water harvesting measures are already taken for the recharge of ground water and to utilize the same for different industrial operations within the plant.
vii	Training shall be imparted to all employees on safety and health aspects of chemicals handling Pre-	We have imparted training to all employees on safety and health aspects of chemicals handling Pre-employment as

	employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	well as routine periodical medical examinations for all employees undertaken on regular basis.
Viii	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	All the environmental protection measures and safeguards recommended in EIA/EMP reports have been effectively implemented in respect of environmental management, risk mitigation measures and public hearing.
ix	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	We are already undertaking socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc. Besides this we have also organized free medical health check-up camps in nearby villages under supervision of expert Doctors.
x	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is in place and equipped with full fledge laboratory facility to carry our environmental monitoring functions. (Annexure-7) We have full-fledged Environmental Laboratory for testing and monitoring of treatment units parameters. The equipment's available in Lab are as under:- <ul style="list-style-type: none"> • Laminar Flow • BOD incubator • Centrifugal Machine • Electric Oven • Muffle Furnace • pH Meter • Conductivity Meter and TDS Meter • Electronic Weighing Machine • COD reflux unit • Turbidity meter • DO meter • Oxygen Analyzer • Multi-gas Detector

Xi	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management /pollution control measures shall not be diverted for any other purpose.	There is no paucity of funds for environmental pollution control measures (i.e.-Air Pollution Control, Water pollution control, Noise pollution control, Solid waste management, Environmental monitoring and Surveillance, Occupational Health Management & Green belt development) to implement the conditions stipulated by MOEF&CC as well as the State Pollution Control Board.
Xii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Copy of Clearance Letter already sent to all concerned in compliance of guidelines.
xiii	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Six monthly compliance reports (both in hard copies as well as by e-mail) along with monitored data are submitted to the Regional Office of MoEF&CC, CPCB and UP Pollution Control Board, Lucknow .
Xiv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the	We have submitted the environmental statement report in Form-V to the state Pollution control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and also submitted to the Regional Office of the MoEF&CC at Lucknow.

	company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional officers of MoEF&CC by e-mail.	
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	Already advertised in two local newspapers i.e. Hindustan(Barielly Edition) dated 03.12.2019 & Rashtriya Sahara (Lucknow Edition) dated. 01.12.2019. A copy of the same was already forwarded to the MoEF&CC, Regional Office, Lucknow under cover of our letter No.GCM/MoEF/3639 dated 03-12-2019.
10	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Environmental protection measures as stipulated are being completed with time frame. Concerted efforts are being put for implementation of all condition as directed.
11	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	We assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a clean and safe environment in an around manufacturing facility and continued our efforts for the same.
12	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a	No any appeal is lying against this Environmental Clearance with the National Green Tribunal.

	period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
13	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	Provision of Compliance of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments are also complied as directed.

We once again assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a safe, clean & green environment in an around manufacturing facility and continued our efforts for the same.

Thanking you,

Yours faithfully,
 For Balrampur Chini Mills Ltd.
 Unit-Guiaria, Division-Distillery


 Authorized Signatory

MONITORING REPORT
PART-1
DATA SHEET

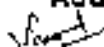
1.	Project Type : (DISTILLERY)	Production of RS/ENA/AA-160 KLPD alongwith 7.56 MW Co-generation power plant.
2.	Name of Project	M/s. Balrampur Chini Mills Ltd., Unit- Gularia, Division-Distillery Village Rudrapur Gularia, Tehsil-Golagokarnath, District-Lakhimpur Kheri-262901(UP)
3.	Clearance letter/OM No. & Date	MoEF No.-J-11011/236/2018-IA-II(I) Date: 5 th November,2019 - Annexure-8
4.	Location District State Latitude/Longitude	Lakhimpur Kheri Uttar Pradesh Latitude 28° 13'41.32"N and Longitude 80° 38'15.47"E
5.	Address for Correspondence Address of concerned Project Incharge	Shri Vinod Kumar Mishra Chief Manager (Production) Balrampur Chini Mills Ltd. Unit-Gularia, Division-Distillery Vill.-Rudrapur Gularia ,Post- Nausar Gularia, Tahsil- Golagokarnath Distt- lakimpur Kheri-262901(U.P.) Ph. 8218830589, 9410651692 Email- v.mishra@bcml.in
	Name & address of Nodal Officer with Phone No./Fax Number(s)/Mobile Nos.	Shri Vinod Kumar Mishra Chief Manager (Production) Balrampur Chini Mills Ltd. Unit-Gularia, Division-Distillery Vill.-Rudrapur Gularia ,Post- Nausar Gularia, Tahsil- Golagokarnath Distt- lakimpur Kheri-262901(U.P.) Ph. 8218830589, 9410651692 Email- v.mishra@bcml.in
6.	Salients Features of the Project	(a) Molasses based Distillery. (b) Plant Capacity - 160 KLPD RS/ENA/AA (c) Water consumption - 6 Lit/Lit of Spirit (d) Spent wash generation - 800 KLPD (e) Waste water discharge - ZLD (f) Waste water Treatment system - Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve zero discharge. Zero discharge condition is being maintained. Effluent other than spent wash like spent lees, Process condensate and utilities effluent are being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP) and treated water from CPU/ERP is being used in process & cooling tower makeup water.
(b)	of the Environmental Management Plan	Distillery is based on Zero Liquid discharge technology in which 100% spent wash is being concentrated in MEE and

		then Concentrated spent wash i.e. Slop used as a fuel and burn in Incineration Boiler.			
7.	Breakup of the Project area	Project area - 8.747 Hectare Green belt - 2.88 Hectare(33% of Project area)			
8.	Breakup of the project affected population with enumeration of those losing houses/ dwelling unit only units and agricultural land less labourers/ artisans. (a) SC/ST Adivasis (b) Others (c) Number of villages affected (d) Name and other particulars of identified area for settlement. (e) Compensation package (f) Budget (g) Status	----- Not applicable -----			
9.	Financial details				
(a)	Project cost of originally planned subsequent revised estimated and the years of price referen.	Initially Project Cost: Rs. 208,742 Crores. Cost towards Environmental protection measures (Capital cost) :Rs.110 Crores Recurring cost towards Environmental control measures :Rs.11 crores			
(b)	Allocations made for Environment Management plans, with item wise breakup.	S.No	Description	Capital Cost (Lakhs)	Recurring Cost/annum (Lakhs)
		1.	Air Pollution control	418	52
		2.	Water Pollution Control(CPU/ERP Plant)	85	5
		3.	Solid waste management(Granulation Plant, Ash handling area)	100	2
		4.	Environmental monitoring and Management	25	2
		5.	Green belt Development	35	4
		6.	Rain water harvesting Measures & others	35	3
		7.	CO2 recovery	350	40
		8.	Miscellaneous (Online monitoring system & web camera)	52	2
		Total		1100	110
(c)	Benefit cost ratio/internal rate of	Shall be submitted as soon as possible			

	return and the year of assessment.	
(d)	Whether (c) includes the cost of environmental management as shown in (b) above.	
(e)	Actual expenditure incurred on the Environmental Management plan so far.	We have invested Rs. 110 Crores up to 30-09-2019.
10.	Forest and requirement (a) The status of approval for a diversion of forest land for forest use. (b) The status of compensatory afforestation's, if any. (c) The status of clear felling. (d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.	----- Not Applicable -----
11.	The status of clear felling in non-forest is.	----- Not Applicable -----
12.	Status of construction :	
(a)	Date of Commencement (actual and / or planned).	January-2020
(b)	Date of Completion (actual and/or planned)	Plant is running under consent of UPPCB,
13.	Compliance report on Environmental clearance conditions.	Enclosed herewith

For **Balrampur Chini Mills Ltd.**
Unit- Gularia, Division-Distillery


Authorized Signatory



:- List of Enclosed Annexures :-

Sl.No.	Particulars	Annexure No.
1	Copy of Air Consent Order to Operate Copy of Water Consent Order to Operate Copy of Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016	Annexure-1
2	Monitoring/Testing Report	Annexure-2
3	Copy of UPGWA NOC	Annexure-3
4	Photographs	Annexure-4
5	MoEF Office Memorandum	Annexure-5
6	Health Record of Employees	Annexure-6
7	Copy of Environmental Management Cell	Annexure-7
8	Copy of Environmental Clearance.	Annexure-8

Annexure – 01

**Copy of CTO -Air
Copy of CTO - Water
Copy of Authorisation
issued under the
provisions of Hazardous
and Other Wastes
(Management and
Transboundary
Movement) Rules, 2016**



UTTAR PRADESH POLLUTION CONTROL BOARD
Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. - 108586/UPPCB/Lucknow(LAB)/CTO/air/LUCKNOW/2020

Dated : 05/12/2020

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
.LUCKNOW,262901
LUCKNOW

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical

Reference Application No. 9928583

Dated : 05/12/2020

1. With reference to the application for consent for emission of air pollutants from the plant of M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 01/01/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2020.12.05 13:34:10 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar
Agarwal

Digitally signed by Pramod
Kumar Agarwal
Date: 2020.12.05 13:34:40 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. Pollution Control Board

Dated : 05/12/2020

CONDITIONS OF CONSENT

- 1(a). The details of Air pollution sources and stacks attached with Boiler

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	01nos. Slop Fired Boiler (capacity - 60 TPH)	Bagasse and slop	1	Particulate Matter	72 meter

- 1(b) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	1	Particulate Matter	150 mg/Nm3

- The equipment for air pollution control system and monitoring, as proposed by the industry and approved by the Board should be installed in their premises itself.
- Industry shall dispose the incineration boiler ash in such a manner so that there should not be any adverse impact on public health at large and on Soil, Water & Air environment.
- The modification or installation in the existing pollution control equipment shall be done only by prior approval of the Board.
- The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants shall be in accordance with the standards prescribed by the Board/MoEF& CC/or otherwise mandatory.
- Unit shall do provisions for control of fugitive emissions from process as per the norms of the Board/MOEF & CC/or otherwise mandatory.
- The unit shall submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report analysed by Board/NABL accredited laboratory shall be submitted.
- In case of closure directions under section-5 of E (P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.
- Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com.
- Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
- Industry shall abide by orders / directions issued by Hon'ble Supreme court, Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time.

The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This consent is valid for the production of 160 KLD ENA/RSA/AA using 720 TPD Molasses as main raw material and 8.0 MW co-power generation.
2. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
3. The industry shall operate and maintain properly the 60 TPH slop fired Incineration boiler and ESP as per the conditions imposed in the CTE issued by the Board for the same.
4. Online Emission Monitoring System shall be installed at the boiler stack and connected to CPCB and UPPCB server.
5. The industry shall operate and maintain the Air Pollution Control System efficiently and continuously so as to satisfy the prescribed emission standards.
6. The industry shall adhere to the ambient Air quality prescribed standards at all the time.
7. The unit shall develop green belt as per the Protocol attached with Board's office order H 16405 /220/2018/02 dated 16-2-2018, which is available on the Board's website- www.uppcb.com.
8. The Ash generated from the Slop Boiler shall be utilized for making manure and its record be sent to the Board regularly. The total ash generated shall be disposed in such a way that it should not affect the soil and the surrounding environment.
9. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
10. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.
11. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.
12. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
13. The industry shall comply with the provisions of, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
14. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .
Prمود Kumar Agarwal Digitally signed by Pramod Kumar
Agarwal
Date: 2020.12.05 13:35:22 +05'30'
Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

**Ref No. -
108580/UPPCB/Lucknow(LAB)/CTO/water/LUC
KNOW/2020**

Dated : 05/12/2020

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
,LUCKNOW,262901
LUCKNOW

**Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974
(as amended) for discharge of effluent to M/s. Balrampur Chini Mills Limited Unit Gularia
Division Chemical**

Reference Application No :9928065

Dated :05/12/2020

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tant/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 01/01/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Previntion and Controt of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.12.05 13:31:01 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.12.05 13:31:31 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.Balrampur Chini Mills Limited Unit Gularia Division Chemical vide

Consent Order No. 9928065/ Water

Dated : 05/12/2020

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of 160 KLD ENA/RSA/AA and 8.0 MW co-power generation.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	20.0 KLD	Septic Tank
2	Industrial	960 KLD (ZLD)	ETP

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. It should be ensured that domestic effluent should not be discharged in storm water drain.
- 4(a) The domestic effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms.

Domestic Effluent		
S.No	Parameter	Standard

5. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry.
6. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under the Environment (Protection) Act, 1986.
7. The industry shall not discharge any trade effluent outside the premises and Zero Liquid Discharge (ZLD) shall be maintained all the time.
8. Molasses shall not be stored in kachcha pits.
9. If UPPCB or CPCB issues closure order against the industry, this consent shall remain suspended for the period till closure order is revoked, after which the consent will be effective again for the remaining period.
10. The unit should be operated in such a way so that there is no adverse impact on public and environment.
11. Unit must maintain on line connectivity of mass flow meters at the inlet and outlet of MEE and web cameras installed at the final outlet, MEE and Bio Compost yard and connected with server of CPCB and UPPCB.
12. The unit shall ensure deployment of qualified staff for self monitoring mechanism on 24 X7 hours basis.
13. Volume of spent wash shall be reduced to 40 % minimum and solid concentration shall be maintained minimum 30% at the outlet of MEE.
14. Unit shall identify recipient drains/rivulets and their upstream & downstream locations in consultation with UPPCB and shall carry out monthly monitoring of identified recipient drains at upstream & downstream location through recognized lab under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis by 10th of every month to CPCB and UPPCB.
15. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity at any stage shall not exceed 07 days equivalent of production in case of incineration boiler and 30 days equivalent of production in case of bio composting.
16. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.

17. Industry shall ensure to send monthly reports regarding spent wash storage and details of spent wash in each lagoon constructed in industry.
18. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This consent is valid for the production of 160 KLD ENA/RSA/AA using 720 TPD Molasses as main raw material and 8.0 MW co-power generations.
2. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
3. The industry shall ensure to operate and maintain properly the MEE and the condensate polishing unit (CPU) to ensure Zero Liquid Discharge; failing which, this consent order shall be treated as cancelled.
4. The industry shall comply with all other directions issued under the Water (Prevention and Control of Pollution) Act, 1974 stipulated by Central Pollution Control Board, New Delhi to ensure achievement of Zero Liquid Discharge positively.
5. Industry shall operate and maintain measuring devices (water/ flow meters) at required location (raw water consumption, solid separation system, feed, permeate and reject, evaporation concentration systems, feed concentrate and condensate, water reused in the process & concentrate utilized in drying system/equivalent technology) to record the water balance shortly without delay.
6. Industry shall install web cameras at each strategic location such as MEE, and CPU, spent wash storage lagoon etc. for monitoring purpose. The web cam should be connected to the server of CPCB and UPPCB.
7. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity of concentrated spent wash, at any stage shall not exceed 07 days equivalent of production.
8. Industry shall operate and maintain the effluent treatment system effectively and regularly. All the effluent treatment system shall be kept in good running condition all the time and failure (if any), shall be immediately rectified without delay otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Industry shall not discharge any treated / untreated effluent in to the river or any surface water bodies. No effluent shall be discharged outside of the factory premises in any circumstances; hence zero discharge condition shall be maintained at all the time.
9. Industry shall make proper arrangement for safe and scientific handling, storage, transportation and disposal of all solid wastes, sludge etc. generated.
10. Spent wash generation, storage shall be done as per the guidelines of CPCB.
11. Measuring system for spent wash storage shall be installed.
12. The industry shall submit ground water quality analysis report of the nearby areas on quarterly basis in coordination with UPPCB.
13. The industry shall ensure strict compliance with the conditions mentioned in the Environmental Clearance issued by MoEFF & CC.
14. The industry shall ensure strict compliance with the conditions mentioned in the NOC dated 04.12.2017 issued to it by CGWA for abstraction of ground water.
15. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.
16. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
17. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.
18. The industry shall submit approved on site disaster management plan.

19. The industry shall provide copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter reading connected with CPCB server etc. on monthly basis (by 10th of every month) to CPCB/UPPCB.
20. The industry shall provided adequate arrangement for control of odour nuisance. All internal roads shall be made pucca. Industry shall maintain good housekeeping within factory premises, around effluent treatment facilities etc.
21. No waste water will be discharged outside the industry premises and zero liquid discharge shall always be maintained.
22. The industry shall ensure to keep the Bio-compost yard completely empty before the onset of rainy season.
23. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
24. Analysis report from recognized laboratory for Solid concentration at inlet and outlet of MEE should be submitted to the Board within one month from the date of issue of this certificate.
25. The industry shall comply with the provisions of, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
26. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2020.12.05 13:32:17 +05'30'
Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD

TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226010

Ref. No : 11713/UPPCB/Lucknow(UPPCBRO)/HWM/LAKHIMPUR KHIRI/2020 Dated: 04/05/2020

To,

M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical
VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901 (U.P), LAKHIMPUR KHIRI, 262901

Tehsil : Gola Gokaran Nath

District : LAKHIMPUR KHIRI

Sub :- Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1. Number of authorization and date of issue 11713 and 04/05/2020 .
2. Reference of application (No. and date) 8280049 and 17/03/2020 .
3. Mr NK AGARWAL of M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, utilization, storage and disposal or any other use of hazardous or other wastes or both on the premises situated at VILL. RUDRAPUR GULARIA, NAUSAR GULARIA, LAKHIMPUR- .

Details of Authorisation

S No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing, etc.	Quantity (ton/annum)
1	Sch-1, Cat.-5.1 (Used/Waste Oil)	TSDF	9.0 MT/Annum

1. The authorization shall be valid for a period of 05/05/2024 from the date of issue of this letter .
2. The authorization is subject to the following general and specific conditions (please specify any conditions that need to be imposed over and above general conditions, if any) .

A General Conditions of Authorization -

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under .
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Board .
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization .
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation .
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time .

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and penalty .
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility .
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation .
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained .
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation .
11. The importer or exporter shall bear the cost of Import or export and mitigation of damages if any
12. An application for the renewal of an authorisation shall be made as laid down under these Rules .
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Changes or Central Pollution Control Board from time to time .
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year .

B Specific Conditions of Authorization

1. The authorization shall be valid for a period of Five Years from the date of issue, if not suspended or cancelled earlier.
2. The wastes must be safely collected in leak proof containers and shall be duly marked in a manner suitable for handling, storage and transport and the packaging shall be easily visible and be able to withstand physical conditions and climatic factors. All hazardous waste containers / bags shall be provided with a general label. The storage area should be at an isolated spot in the premises and must be fenced, covered and duly marked.
3. The authorized person/agency shall ensure that no adverse impact on the air, soil and water including groundwater takes place due to activities for which authorization has been requested. Comprehensive safety measures must be followed in handling of wastes and the staff must be properly trained.
4. It is brought to your notice that as per the order dated 14-11-2003 passed by the Hon'ble Supreme Court in W.P. (c) No. 657 of 1995, no industry covered under Hazardous and other Wastes (Management and Tran boundary Movement) Rules, 2016 shall be allowed to operate without valid authorization. It is also provided in the same orders that industries which are not complying with the conditions of authorization shall not be allowed to operate. Hence in case you fail to apply for authorization, before its expiry or fail to comply with conditions of the earlier authorization issued to you, closure order shall be issued against your industry without any further notice.
5. The applicant must file returns on prescribed Form- 4 along with a compliance report of this letter and should also maintain records on Form 3 and present it to Board's inspecting officials.

6. In case of occurrence of an accident, complete details on form must be sent to U.P. Pollution Control Board at the earliest along with details of mitigative and remedial measures taken.
7. The authorized person/agency shall not receive, collect, or store any hazardous waste from any unauthorized occupier or generator of hazardous wastes. In case any hazardous wastes is sold to any other reprocessing unit it must be ensured that such unit is fully complying with environmental requirements and has a valid authorization of the Board.
8. In no case any hazardous wastes shall be disposed off on land, in any drain or stream. All spillages of hazardous chemicals, used containers, of hazardous chemicals such as flammable corrosive, explosive and toxic nature must be safely collected and stored. Non-compatible wastes must be suitably and safely handled.
9. It is within the powers and functions of the U.P. Pollution Control Board to modify / revoke the terms and conditions of the authorization/Registration issued under the Rule – 7 of Hazardous and Other Wastes (Management and Tran boundary Movement) Rules, 2016.
10. You are directed to display on-line data/display board outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises. Necessary compliance should be sent within 15 days of receipt of this letter.
11. It is the mandatory duty of the authorized person/agency to comply with the guidelines for transportation of hazardous waste in accordance with rule 18 of Hazardous and Other Waste (Management and Tran boundary Movement) Rules, 2016.
12. It should be ensured that hazardous wastes shall be properly collected and packed in HDPE bags and then temporarily stored in a lined RCC tank/pit with suitable shed.
13. An ETP sludge test report of a laboratory approved under E.P. Act shall be submitted along with compliance of this letter of this office.
14. Used oil shall be sold only to recyclers registered with U.P. Pollution Control Board. The record shall be maintained.
15. The occupier, transporter and operator of a facility shall be liable for damages caused to the environment resulting due to improper handling and disposal of hazardous waste listed in schedule 1,2, and 3 and shall be liable to pay a fine as levied by the State Pollution Control Board under the rules.
16. Details of raw material (which is Hazardous waste) and product along with quantity shall be sent within a month.
17. You shall become the member of any common TSDF for S.L.F. which has been authorized by UPPCB and send the stored hazardous wastes for final disposal to the TSDF and report back to U.P.P.C.B. with the required manifesto (document of proof) within one/three month of this letter.
18. The unit shall ensure that H.W. is regularly sent to Authorized common TSDF and shall not store

for more than 90 days in accordance with under rule 8 of HOWM Rules, 2016.

19. Emission from the Common/Captive incinerator stack shall meet the prescribed standards under Environmental Protection Act. 1986.

20. Copies of Hazardous Waste Manifest in Form-10 shall be sent regularly to UPPCB for each category of waste sent to TSDF/Incinerator.

21. This authorization/Registration is valid till the industry is having valid consent as per the provisions of Air(Prevention and Control of Pollution) Act 1981 and Water (Prevention and Control of Pollution) Act, 1974.

22. Industry shall comply the provisions of EP Act, 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended and E-waste (Management and Handling) Rules, 2016.

23. The industry shall ensure renewal of agreement from TSDF before expiry date.

24. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

(Authorized Signatory)
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:07:38 +05'30'

Pramod Kumar Agarwal

UTTAR PRADESH POLLUTION CONTROL BOARD

Copy to: To the Regional Officer, U.P.Pollution Control Board, Regional Officer, ROUPPCB,
Lucknow. for information and necessary action .

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:09:58 +05'30'

CEO/EE, I/C Circle _____

Annexure – 02

Monitoring/Testing Report

**SIX MONTHLY
COMPLIANCE REPORT
(April, 2021 to September, 2021)**

Ambient Air : September, 2021
Stack Monitoring : September, 2021
Noise Monitoring : September, 2021
Ground Water : April, 2021 to September, 2021
Soil Quality : September, 2021

of

**Balrampur Chini Mills Limited
Unit: Gularia, Division: Chemical
Village: Gularia, P.O.: Nausar Gularia
Tehsil: Golagokarannath
District: Lakhimpur Kheri
Uttar Pradesh - 262901**



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Email: ETRCLTH@YAHOO.IN, Web: www.etrccindia.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

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ETRC/PM14/TEST-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4321/2021	Date of Report : 10.04.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	06.04.2021	7	Analysis Start Date	06.04.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	09.04.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	416.2	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	52.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	33.04	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	32.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	24.6	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	292.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	268.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/4321/2021

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.11	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.05	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.55	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 7 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	


BDL=Below Detection Limit

..... END OF REPORT.....

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that this data reflects our best attempt to generate accurate results for the sample mentioned in the report as above.
- The result relate only to the items tested.
- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results and/or the performance of the equipment constituting to the results.
- All disputes subject to Lucknow jurisdiction.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Complaint register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TEST-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4496/2021	Date of Report : 18.05.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	12.05.2021	7	Analysis Start Date	12.05.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	17.05.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	424.6	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ -F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	52.8	2.0 - 800	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.02	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	26.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	29.14	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	284.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	272.0	5.0 - 600	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.016 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/4496/2021

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.12	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.06	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.39	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	>2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

..... END OF REPORT.....

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that this data reflects our best attempt to generate accurate results for the sample, mentioned in the report as above.
- The result relate only to the items tested.
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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TEs-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4511/2021	Date of Report : 10.06.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	05.06.2021	7	Analysis Start Date	05.06.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	09.06.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	430.6	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	56.0	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.99	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	28.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.39	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500 SO ₄ ²⁻	26.8	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	284.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/4511/2021

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.12	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.56	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

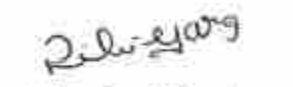
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 (Sandeep Kr Verma)
 Lab-Incharge




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 (Ritu Garg)
 QM



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ETRC/PM14/TES-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4675/2021	Date of Report : 10.07.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	05.07.2021	7	Analysis Start Date	05.07.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	09.07.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	8.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	432.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	54.4	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.0	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500 Cl ⁻ B	28.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F ⁻ C	0.38	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	24.6	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	296.0	2.0 - 1000	200	500
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	276.0	5.0 - 800	200	500
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/4675/2021

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.08	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.03	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.81	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

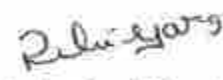
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Lab-Incharge




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ETRC/PM14/TEST-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4821/2021	Date of Report : 16.08 2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	11.08.2021	7	Analysis Start Date	11.08.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	16.08.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	430.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	29.16	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	30.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-28): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	26.2	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	272.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.10	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.06	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.55	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample.	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample.	


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ETRC/PM14/TES-REP/FT/36

TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT


Test Report Ref No.: ETRC/EPA/4927/2021		Date of Report : 14.09.2021
Name /Address/Type of Industry		Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	08.09.2021
(b)	Stack material	RCC
(c)	Height of stack from ground level	80 mts.
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 No., 60 TPH
(f)	Type of fuel used	Slop + Bagasse
(g)	Details of APCS installed	ESP
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	30.0
(b)	Stack gas temperature (°C)	158.0
(c)	Stack gas velocity (m/sec)	12.13
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	64
(f)	Volume of air sampled (liters)	1024

TEST RESULT


Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing/ Limit of Detection
1	Particulate Matter (PM)	mg/Nm ³	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	81.4	2.0 - 1000
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS: 11255 (Part-2): 1985 Reaffirmed: 2014	27.6	1.0 - 2000
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	IS: 11255 (Part-1): 2006 Reaffirmed: 2017	52.2	2.0 - 1000
4	Carbon Dioxide (CO ₂)	%	ETRC/LABSOPA/11: 2015	10.8	0.1 - 20
5	Carbon Monoxide (CO)	%	ETRC/LABSOPA/13: 2015	0.37	0.01 - 5.0

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ETRC/PM14/TEST-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/EPA/4924/2021		Date of Report : 14.09.2021	
Name /Address/Type of Industry		Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	58	58
(d)	Average ambient temperature (°C)	28	28
(e)	Time of Sampling Started (Hours)	10:38 am (07.09.2021)	10:38 am (07.09.2021)
(f)	Time of Sampling completed (Hours)	10:21 am (08.09.2021)	10:21 am (08.09.2021)
(g)	Total time of sampling (minutes)	24 hour (14:15 minutes)	24 hour (14:15 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.14	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1612.872	• 23.578
	• GAS (liter)	• 707.4	

TEST RESULT

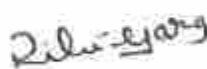
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m ³	85.6	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24) : 2019	µg/m ³	53.02	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2) : 2001 Reaffirmed: 2017	µg/m ³	14.16	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6) : 2006 Reaffirmed: 2017	µg/m ³	21.82	6.0 - 750	For 24 hour =80

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ETRC/PM14/TES-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/EPA/4925/2021		Date of Report : 14.09.2021	
Name /Address/Type of Industry		Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Boiler House	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	58	58
(d)	Average ambient temperature (°C)	28	28
(e)	Time of Sampling Started (Hours)	10:52 am (07.09.2021)	10:52 am (07.09.2021)
(f)	Time of Sampling completed (Hours)	10:30 am (08.09.2021)	10:30 am (08.09.2021)
(g)	Total time of sampling (minutes)	24 hour (1407 minutes)	24 hour (1407 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.165	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1639.155	• 23.415
	• GAS (liter)	• 703.5	

TEST RESULT

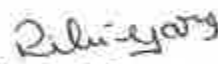
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m ³	80.6	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24) : 2019	µg/m ³	49.97	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	13.75	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	20.22	6.0 - 750	For 24 hour =80

..... END OF REPORT

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- Complain register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
OM



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ETRC/PM14/TEs-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/4926/2021		Date of Report : 14.09.2021	
Name /Address/Type of Industry		Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Gularia	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	56	56
(d)	Average ambient temperature (°C)	27	27
(e)	Time of Sampling Started (Hours)	10:43 am (08.09.2021)	10:43 am (08.09.2021)
(f)	Time of Sampling completed (Hours)	10:20 am (09.09.2021)	10:20 am (09.09.2021)
(g)	Total time of sampling (minutes)	24 hour (1418 minutes)	24 hour (1418 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.165	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1651.737	• 23.626
	• GAS (liter)	• 708.9	

TEST RESULT

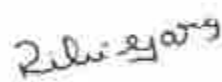
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	76.5	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	42.33	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	12.38	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	16.67	6.0 - 750	For 24 hour =80

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(Ritu Garg)
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ETRC/PM14/TEST-REP/FT/36

TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT


Test Report Ref No.: ETRC/EPA/4927/2021		Date of Report : 14.09.2021
Name /Address/Type of Industry		Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	08.09.2021
(b)	Stack material	RCC
(c)	Height of stack from ground level	80 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 No., 60 TPH
(f)	Type of fuel used	Slop + Bagasse
(g)	Details of APCS installed	ESP
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	30.0
(b)	Stack gas temperature (°C)	158.0
(c)	Stack gas velocity (m/sec)	12.13
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	64
(f)	Volume of air sampled (liters)	1024

TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing/ Limit of Detection
1	Particulate Matter (PM)	mg/Nm ³	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	81.4	2.0 - 1000

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TEST REPORT

AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No.: ETRC/EPA/4928/2021		Date of Report : 14.09.2021	
Name /Address/Type of Industry		Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901	
Monitored by		ETRC, Lucknow	
Sr. No.	GENERAL INFORMATION	DETAILS	
(a)	Date of monitoring	08/09/2021 (6:00 AM) to 09/09/2021 (6:00 AM)	
(b)	Sample Description	Ambient Noise	
(c)	Sampling Location	Within Plant Premises.	
(d)	Environmental Condition	Normal	

TEST RESULT

Ambient Noise Level				
Sr. No.	Parameter	Unit	Results	Results
			DAY TIME (6:00 AM - 10:00 PM)	NIGHT TIME (10:00 PM - 6:00 AM)
1	Equivalent sound level	dB(A)	61.86	49.22

Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

----- END OF REPORT -----

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ETRC/PM14/TEST-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4929/2021	Date of Report : 14.09.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	ETRC Lucknow
3	Sample received date	09.09.2021	7	Analysis Start Date	09.09.2021
4	Sample Quantity	5.0 litre	8	Analysis End Date	13.09.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ¹	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	435.0	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	52.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	33.04	0.2 - 400	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	22.02	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	28.4	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	284.0	2.0 - 1000	200	500
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	268.0	5.0 - 800	200	500
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/4929/2021

21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.11	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.68	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2.0	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/ 100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/ 100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

..... END OF REPORT.....

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ETRC/PM14/TES-REP/FT/38

TEST REPORT SOIL ANALYSIS

Test Report Ref No.: ETRC/EPA/4930/2021	Date of Report : 14.09.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited Unit: Gularia, Division: Chemical Village: Gularia, P.O.: Nausar Gularia Tehsil: Golagokarannath District: Lakhimpur Kheri (UP) - 262901

SAMPLE DETAILS

1	Sampling Location	Near CPU	5	Packing Condition	Sealed
2	Sample Description	Soil Sample	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	09.09.2021	7	Analysis Start Date	09.09.2021
4	Sample Quantity	1.0 Kg	8	Analysis End Date	13.09.2021

TEST REPORT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.4	1 - 14
2	Electrical Conductivity	$\mu\text{mho/cm}$	IS: 14767: 2000 Reaffirmed: 2016	288	1 - 40000
3	Moisture content	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2015	3.15	1.0 - 50
4	Sulphur	Kg/Hec	IS: 14685: 1999 Reaffirmed: 2014	13.6	5.0 - 100
5	Boron as B	mg/kg	ETRC/ LABSOPS/06	BDL	4.0 - 100
6	Copper as Cu	mg/kg	ETRC/ LABSOPS/07	0.39	0.3 - 500
7	Zinc as Zn	mg/kg	ETRC/ LABSOPS/08	2.59	1.0 - 500
8	Iron as Fe	mg/kg	ETRC/ LABSOPS/09	15.84	5.0 - 500
9	Manganese as Mn	mg/kg	ETRC/ LABSOPS/10	7.99	5.0 - 500

BDL = Below Detection Limits

END OF REPORT

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(Ritu Garg)
QM

Annexure – 03

Copy of UPGWA NOC



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (E)

[See rules 15(2)]

(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)

VALID UP TO : 08/07/2026

Registration No.: 202105000150			
Name of the Owner	NIRMAL KUMAR AGARWAL		
Address of the Applicant	Balrampur Chini Mills Ltd.Unit-Gularia,Division-Chemical VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901U.P	Application Form Serial No.	LMPK0521RIN0028
Date of Submission	15/05/2021	Specimen Signature	
Company Name	Balrampur Chini Mills Ltd UnitGularia Div. Chem.	Company Address	Vill Gularia P.O. Nausar Gularia Distt. Lakhimpur
Location Particulars			
District	Lakhimpur Kheri	Block	BIJUA
Plot No./Khasra No.	LAND DETAILS ENCLOSED.	Municipality/Corporation	Yes
Ward No./Holding No.			LAND DETAILS ENCLOSED.
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/05/2019		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	130.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	25.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	140.00
Date of Energization (In Case of Electric Pump)	01/01/2020		
Maximum Allowable Rate of Withdrawal (m3/hr.):	140.00	Maximum Allowable Running Hours Per Day:	3.00
Maximum Allowable Annual Extraction of Ground Water:			151200
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Date of expiry of CGWA NOC is 27 May 2021		
Against Case			
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (3) for extraction of ground water			

at a rate not exceeding that as shown at Sl. (3j), for running hours 1 day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) In case, any of the particulars or information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
 - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
 - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
 - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No. of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone tapped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site-specific requirement regarding safety and access for measurement may be taken care off.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars or information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.

- iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
- iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 15 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
- v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
- vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
- vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

This certificate is electronically generated and does not require digital signature



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (E)

[See rules 15(2)]

(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)

VALID UP TO : 08/07/2026

Registration No.: 202105000152			
Name of the Owner	NIRMAL KUMAR AGARWAL		
Address of the Applicant	Balrampur Chini Mills Ltd.Unit-Gularia,Division-Chemical VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901U.P	Application Form Serial No.	LMPK0521RIN0029
Date of Submission	15/05/2021	Specimen Signature	
Company Name	Balrampur Chini Mills Ltd Unit Gularia Div. Chem.	Company Address	Vill Gularia P.O. Nausar Gularia Distt. Lakhimpur
Location Particulars			
District	Lakhimpur Kheri	Block	BIJUA
Plot No./Khasra No.	LAND DETAILS ENCLOSED.	Municipality/Corporation	Yes
Ward No./Holding No.			LAND DETAILS ENCLOSED.
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/05/2019		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	130.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	25.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	140.00
Date of Energization (In Case of Electric Pump)	01/01/2020		
Maximum Allowable Rate of Withdrawal (m3/hr.):	140.00	Maximum Allowable Running Hours Per Day:	4.00
Maximum Allowable Annual Extraction of Ground Water:			201600
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Date of expiry CGWA NOC is 27 May 2021		
Against Case			
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (3) for extraction of ground water			

at a rate not exceeding that as shown at Sl. (3j), for running hours 1 day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at SL (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS/ IS standards) having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) In case, any of the particulars or information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
 - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
 - The depth of the piezometer should be same as is case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
 - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No.of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm. the reported measurement should be given in meter up to two decimals.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used for accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone taped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analyzed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site-specific requirement regarding safety and access for measurement may be taken care off.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars or information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
- (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.

- iii) All industries abstracting ground water in excess of 100 m³/d shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
- iv) Construction of observation well(s) (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the project proponent. The piezometer (observation well) shall be constructed at a minimum distance of 15 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
- v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
- vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
- vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water flow meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

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Annexure – 04

Photographs



Pic :- 1 RCC Stack (Height -80mtr) alongwith Online Dust Monitoring System



Pic :- 2 Multi-effect Evaporator



Pic :- 3 Slop fired Boiler alongwith ESP (Incineration Boiler)



Pic :- 4 CPU (UASBR)



Pic :-5 RO Plant



Pic :- 6 Aerial View of CPU/ERP Plant



Pic-7 Mass Flow Meter Inlet/Outlet Of MEE Plant



Pic-8 Two Nos. Of Web Camera at Spent wash Storage Lagoon & MEE/Incineration Area



Pic -9 Green Belt at CPU Area



Pic-10 Green Belt at fermentation area



Pic-11 Green Belt at Distillation Area



Pic-12 Green Belt at spent wash Storage area



Pic-13 Green Belt at spent wash Storage area



Pic-14 Green Belt at Distillation Area



Pic-15 Co₂ Plant



Pic-16 Plantation of Plants



Pic-17 Plantation of Plants



Pic-18 Plantation of Plants

Annexure – 05

MoEF Office Memorandum

F.No.22-65/2017-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan
Jor Bagh Road, Aligarj
New Delhi - 110003
e-mail: sharath.kr@gov.in

Dated: 30th September, 2020

Office Memorandum

Sub: Deliberation on the commitments made by project proponent and requirements to address the concerned raised during the public consultation and prescribe as specific condition(s) while recommending the proposal, for prior environment clearance, in physical terms in lieu of Corporate Environment Responsibility (CER) - regarding.

This is in supersession of the OM of even number dated 1st May, 2018, regarding guidelines in respect of Corporate Environment Responsibility. Ministry is in receipt of several representations regarding imposition of certain percentage of project cost or expansion cost as Corporate Environment Responsibility. Further, the said OM was also challenged before the Hon'ble High Court of Delhi in WP(C) No. 13252/2019 in the matter of CREDAI, NCR Versus Union of India and Ors.

The matter has since been examined in the Ministry and it is hereby decided that henceforth the Expert Appraisal Committee or State Level Expert Appraisal Committee shall deliberate on the commitments made by the project proponent to address the concerns raised during the public consultation and prescribe specific condition(s) in physical terms while recommending the proposal, for grant of prior environment clearance instead of allocation of funds under Corporate Environment Responsibility.

Further, it is directed that all the activities proposed by the project proponent or prescribed by the Expert Appraisal Committee or State Level Expert Appraisal Committee, as the case may be, shall be part of the Environment Management Plan.

This issues with the approval of competent authority.


(Sharath Kumar Palleria)
Scientist 'F'/Director (IA-Policy)

To,

1. Chairman and Member Secretary of Central Pollution Control Board

2. Chairpersons and Members of all the Expert Appraisal Committees
3. Chairpersons and Member Secretaries of all the SEIAA/SEACs
4. Chairpersons and Member Secretaries of all SPCBs/UTPCCs
5. Member Secretaries of all the Expert Appraisal Committees
6. All the officers of IA Division

Copy for information to:

1. PS to Minister for Environment, Forest and Climate Change
2. PS to MoS for Environment, Forest and Climate Change
3. PPS to Secretary (EF&CC)
4. PPS to AS(RA) / AS(RSP)
5. PPS to JS(GM) / JS(AKN)/JS(SKE)
6. Website, MoEF&CC
7. Guard File.

Sherath
20/9/2020
[Sherath Kumar Pallerla]
Scientist 'F'/Director (IA-Policy)

Annexure – 06

Health Record of Employees

Ref.No. GCM/Medical/2021

Date- 01-11-2021

CERTIFICATE

The health check-up program of all Officers and Employees of Distillery Division is organized by the Company in the factory campus. We have under taken medical check-up of Officers and workers of the company and no occupational disease were found.

**For Balrampur Chini Mills Ltd.,
Unit-Gularia, Division-Chemical**


Sr. Medical Officer

Encl- List Attached.

Dr. V. P. Singh
Medical Officer
Balrampur Chini Mills Ltd.
Unit-Gularia

BLARAMPUR CHINI MILLS UNIT - GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 13-09-2021


SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS										REPORT	
				WEIGHT (KGS)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	SpO2 (%)	CHEST	ABDOMEN	Hemoglobin % gm/dl	BLOOD SUGAR (R) mg/dl	URINE (U/M)	FIT	UNFIT
1	Vinod Kumar Mishra	Lallan Mishra	Chf. Man. (Prod)	87	5-8	90	120/80	97	clear	soft	13.3	145	NAD	✓	
2	Rajnish Chandra	Ramchandra Lal	Sr. Man. (Eng.)	120	6	84	114/80	100	clear	soft	14.2	105	Protein +	✓	
3	Abid Hassan	Akhbar Hassan	Man. (P.P.)	92	6	82	114/80	96	clear	soft	11.2	140	NAD	✓	
4	Rejeer Kaushik	Ved Prakash Sharma	Sr. Dyt. mm	89	5.6	92	138/100	98	clear	soft	13.3	160	Protein ++	✓	
5	Armit Kumar	Arnil Kumar Gupta	Asst. Man.	75	5.5	100	122/82	94	clear	soft	16.7	150	Bacteria +	✓	
6	Dharmendra Nath Pandey	Ram Niwas Pandey	Asst. Man.	78	5.6	90	124/80	96	clear	soft	13.8	109	Protein +	✓	
7	Pradeep Kumar Pandey	Surya Pal Pandey	Asst. Man.	78	5.5	74	116/80	97	clear	soft	10.7	118	NAD	✓	
8	P. Satish Kumar	T.K. Palanisamy	Sr. Engg.	63	5.3	78	119/84	99	clear	soft	13.1	121	NAD	✓	
9	Hari Laxmi Kaman	Kannan Srinivasan	Sr. DCS Eng	76	5.6	76	119/80	98	clear	soft	13.6	143	NAD	✓	
10	Ajeef Kumar Srivastava	Y. N. Srivastava	Officer Commercial	80	5.5	80	118/70	100	clear	soft	11.6	229	Sugar +++	✓	
11	Pankaj Kumar Verma	Om Prakash	Officer	67	5.3	92	120/89	100	clear	soft	15.5	423	Sugar +++	✓	
12	Sou Kiran	I. S. Rao	Asst. Eng.	84	5.8	96	114/82	98	clear	soft	13.0	96	NAD	✓	
13	Bhismdev Yadav	Vishamdev Yadav	Asst. Officer	90	6.0	72	120/79	97	clear	soft	14.3	170	NAD	✓	

v. P. Singh
Dr. V. P. Singh
Medical Officer
Balrampur Chini Mills Ltd.
Gularia
MEDICAL OFFICER

**BLARAMPUR CHINI MILLS UNIT- GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS**

DATE: 13-09-2021


SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS										REPORT	
				WEIGHT (KG)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm/Hg)	SpO2 (%)	CHEST	ABDOMEN	Hemoglobin % gm/dl	BLOOD SUGAR (40 mg/dl)	URINE (R/M)	HT	UNIT
14	Subham Suktla	Saroj Kumar Suktla	Microbiologist	77	5.6	88	112/70	97	clear	soft	14.5	115	Bacteria +	✓	
15	Paarveen Kumar Yadav	Ramdhyan Yadav	Sr. Typist	80	5.4	76	116/80	96	clear	soft	10.3	139	Uric Acid crystals +	✓	
16	Lalchandra Pandit	Gaemi Pandit	Store clerk	85	5.7	90	190/90	99	clear	soft	11.3	314	Sugar + + + +	✓	
17	Pradeep Kumar Baspai	Uman Chandra	CPU chemist	75	5.8	92	102/80	96	clear	soft	14.6	105	Bacteria +	✓	
18	Harry Krishna Singh Tomar	Jagdish Singh Tomar	CPU chemist	68	5.4	100	114/70	96	clear	soft	14.2	127	Calcium oxalate crystals +	✓	
19	Chandra Shekhar Singh	Kashi nam Singh	CPU chemist	61	5.7	82	120/74	98	clear	soft	14.5	111	NAD	✓	
20	Harpal Singh	Puran Singh	CPU chemist	79	5.6	100	120/82	100	clear	soft	13.2	100	NAD	✓	
21	Anuj Kumar Suktla	Avdesh Kumar Suktla	warehouse clerk	61	5.6	90	116/70	99	clear	soft	13.2	85	Calcium oxalate +	✓	
22	Armit Kumar Mishra	Gulab Mishra	Granulation Plant Supervisor	85	5.6	100	120/80	98	clear	soft	14.1	100	Calcium oxalate crystals +	✓	
23	Ajay Kumar Singh Gautam	Shiv Pratap Singh	Sr. Electrician	63	5.5	97	123/82	96	clear	soft	14.1	132	Bacteria +	✓	
24	Pankaj Kumar Yadav	Ramesh Chandra Yadav	Electrician	63	5.3	78	118/80	98	clear	soft	12.9	131	NAD	✓	
25	Subhash Kumar	Nand Krishna Singh	Turbine oppt	71	5.8	76	124/82	98	clear	soft	11.6	123	NAD	✓	
26	Upendra Kumar Shahi	R. M. Shahi	Turbine oppt	86	5.5	78	129/80	98	clear	soft	12.5	166	NAD		


Dr. V. P. Singh
 Medical Officer
 Balrampur Chini Mills Ltd.,
 Unit-Gularia
MEDICAL OFFICER

BLARAMPUR CHINI MILLS UNIT- GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 13-09-2021

Sl. NO.	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS										REPORT	
				WEIGHT (KG)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	SpO2 (%)	CHEST	ABDOMEN	Hemoglobin % (g/dl)	BLOOD SUGAR (mg/dl)	URINE (R/M)	FIT	UNFIT
27	Virendra Kumar	Ram Mohan	Boiler attendant	66	5.2	97	116/80	99	clear	soft	14.6	102	NKD	✓	
28	Virendra Keshwaha	Mishri Keshwaha	Welder	58	5.2	100	120/74	100	clear	soft	15.3	115	NKD	✓	
29	Arvheshi Kumar	Surender Mishra	Sr. Electrician	69	5.7	98	119/80	96	clear	soft	12.5	349	Sugar++	✓	
30	Balkesh	Lalman	Boiler attend.	72	5.3	78	120/90	97	clear	soft	15.7	138	NKD	✓	
31	Nilesh Kumar	Phool Singh	Boiler attend.	69	5.4	76	119/70	98	clear	soft	13.4	120	NKD	✓	
32	Om Prakash Prajapati	Jitan Prajapati	Boiler attend.	75	5.4	94	118/80	100	clear	soft	14.3	177	Protein + Bacteria++	✓	
33	Anandesh Kumar Tiwari	Shashi Kant Tiwari	Sr. MEE Spt.	67	5.8	88	114/74	100	clear	soft	13.4	121	NKD	✓	
34	Bachhi Harayan Sharma	Ram Chaug Sharma	Sr. Instrument technician	55	5.4	92	120/80	96	clear	soft	11.6	117	Bacteria +	✓	
35	Vipin Kumar	Budhu Singh	Dip man	66	5.2	74	119/80	98	clear	soft	15.2	112	Calcium oxalate Crystals +	✓	
36	Charidan Kumar Yadav	Ram Kripal Yadav	Sr. Instrument technician	64	5.6	74	120/84	99	clear	soft	11.9	100	NKD	✓	
37	Ramesh Kumar Verma	Rajkishor Verma	Sr. MEE Spt.	95	5.10	88	120/80	96	clear	soft	13.8	135	NKD	✓	
38	Jitenesh Kumar	Uma Shankar Pandey	fitter	67	5.5	70	114/74	97	clear	soft	12.4	115	Calcium oxalate++	✓	
39	Ajay Kumar Yadav	Jai Prasad Yadav	fitter	61	5.4	96	114/80	98	clear	soft	13.8	183	Protein +	✓	


Dr. V. P. Singh
Medical Officer
Bairampur Chini Mills Ltd.
Unit-Gularia
MEDICAL OFFICER

BLAIRAMPUR CHINI MILLS UNIT - GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 13-09-2021

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS										REPORT	
				WEIGHT (KG)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	SpO2 (%)	CHEST	ABDOMEN	Hemoglobin % g/dl	BLOOD SUGAR (H) mg/dl	URINE (U/M)	HT	UNIT
40	Hari Shankar Kushwaha	R.D. Kushwaha	Gr. fitter	63	5-4	100	116/80	98	clear	Soft	14-1	93	Calcium oxalate Crystals ++	✓	
41	Santosh Kumar Vishwakarma	G.P. Vishwakarma	Electrician	75	5-5	92	119/89	98	clear	Soft	13-1	153	NAD	✓	
42	Vinay Kumar	Mahendra Singh	Auxiliary Attendant	75	5-6	92	119/70	100	clear	Soft	13-4	153	NAD	✓	
43	Pankaj Kumar Yadav	Shiv Bihari Yadav	fitter	54	5-6	92	119/70	100	clear	Soft	12-0	99	NAD	✓	
44	Amit Kumar Dwivedi	Gomati dwivedi	Auxiliary attendant	64	5-5	90	120/80	98	clear	Soft	14-0	163	NAD	✓	
45	Anupam Singh	S.B. Singh	fitter cum Hydro driver	67	5-4	80	120/79	100	clear	Soft	14-1	109	NAD	✓	
46	Ram Babu Sharma	Laxmi Sharma	Head fitter	69	5-6	85	119/70	96	clear	Soft	14-4	149	NAD	✓	
47	Hitenra Kumar	Ram Das Mandal	MEE OPA	67	5-5	94	118/80	99	clear	Soft	13-6	115	Bacteria ++	✓	
48	Praveen Kumar Sharma	Ashwani Kumar Sharma	Sr. Distillation opt.	67	5-5	100	112/70	100	clear	Soft	13-7	120	NAD	✓	
49	Arcin Kumar Singh	Ramagya Singh	Sr. Distillation OPA	81	5-3	72	118/80	100	clear	Soft	12-9	110	Calcium oxalate Crystals +	✓	
50	Mukesh Kumar Gupta	Balaram Prasad Gupta	Sr. Distillation opt.	78	5-5	80	122/80	98	clear	Soft	13-7	93	NAD	✓	
51	Ankarna Deen Jaiswal	Maury Lal Jaiswal	Gr. fitter	70	5-3	76	112/70	97	clear	Soft	13-8	112	NAD	✓	
52	Moh. Ashif	Moh. Hassan	Weightment clerk	54	5-3	90	112/70	97	clear	Soft	13-7	107	Protein ++ Spurmatized ++	✓	

v.p.s.
Dr. V. P. Singh
Medical Officer
Blairampur Chini Mills Ltd.
Gularia
MEDICAL OFFICER

BLARAMPUR CHINI MILLS UNIT - GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 13-09-2021

SE NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS										REPORT	
				WEIGHT (KG)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm.Hg)	SpO2 (%)	CHEST	ABDOEN	Hemoglobin % gm/dl	BLOOD SUGAR (R) mg/dl	URINE (U/M)	HT	UNIT
53	Sunil	Baliram	Instrument technician	60	5.5	98	126/84	98	clear	soft	15.2	137	Protein +	✓	
54	Abhimanyu Nath Tiwari	Narenath Nath Tiwari	Instrument technician	76	5.9	98	122/80	99	clear	Soft	15.0	150	Protein + Bacteria + +	✓	
55	Niraj Kumar Singh	Mukh Lal Singh	fitter	50	5.7	72	112/70	96	clear	soft	13.9	100	Bacteria + +	✓	
56	Arjun Kumar Mishra	Ramayan Mishra	MEE opf.	71	5.10	82	112/70	97	clear	Soft	13.2	74	NAD	✓	
57	Dhyanjay Sharma	Raghunath Sharma	fitter	59	5.3	72	112/70	97	clear	soft	13.2	117	NAD	✓	
58	Hemish Singh	Ram Singh	As Distillation opf.	66	5.6	82	116/70	98	clear	soft	11.7	172	NAD	✓	
59	Ravi Kant	shiv Sankar Lal	Bagasse carrier attend.	52	5.5	96	110/70	100	clear	soft	11.9	127	NAD	✓	
60	Vinlesh Kumar	Balram Singh	fermentation opf.	61	5.1	100	119/70	100	clear	soft	6.7	114	NAD	✓	
61	Anuraj Yadav	Lallan Prasad Yadav	fermentation opf.	74	5.7	70	119/72	98	clear	soft	10.2	139	Calcium oxalate +	✓	
62	Yogendra Yadav	Ram Ashok Yadav	fermentation opf.	68	5.5	78	120/80	99	clear	soft	11.2	108	NAD	✓	
63	Ajay Yadav	Ram Krit Yadav	Pump opf.	54	5.4	76	120/80	96	clear	soft	14.3	107	Protein + Spermatozoa +	✓	
64	Subhan Roy	Santana Roy	Tr. chemist	76	5.8	78	118/70	98	clear	soft	17.6	91	Bacteria + +	✓	
65	vivek Sult	C.S. Sult	Graduate Tr.	140	6.3	78	120/80	100	clear	soft	15.1	111	Protein + Bacteria +	✓	

v. P. Singh
Dr. V. P. Singh
Medical Officer
Balrampur Chini Mills Ltd.
Unit Gularia
MEDICAL OFFICER

BLARAMPUR CHINI MILLS UNIT - GULARIA - CHEMICAL DIVISION
EMPLOYEE MEDICAL CHECKUP DETAILS

DATE: 13-09-2021

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS											REPORT	
				WEIGHT (KG.)	HEIGHT (FEET)	PULSE (PER MIN)	BP (mm Hg)	SPO2 (%)	CP-EST	ABDOMEN	Hemoglobin (g/dl)	BLOOD SUGAR (R/mg/dl)	URINE (R/M)	HT	UNFX	
66	Surya Pratap singh	J. B. Singh	Tr. chemist	66	5-11	92	119/70	90	clear	soft	11.5	190	Positive + +	✓		
67	Hitin Karmar Singh	Anoop Karmar Singh	Tr. Engineer	63	5-9	78	110/70	100	clear	soft	15.5	129	NAD	✓		
68	Devenak kumar Rahul	Ram Narend Yadav	Jr. Eng. (P.P)	70	5-7	76	100/80	99	clear	soft	12.6	86	NAD	✓		
69	Avinash chaudhary	Ompal singh	Sr. Eng. (P.P)	89	6-3	72	119/74	99	clear	soft	12.1	98	NAD	✓		
70	Ajay Rai	Jagmohan	auxiliary attendt	88	5-11	95	118/74	96	clear	soft	15.6	112	NAD	✓		

V.P.S.
Dr. V. P. Singh
Medical Officer
Blarampur Chini Mills Ltd
MEDICAL OFFICER

Annexure – 07

Copy of Environmental Management Cell

BALRAMPUR CHINI MILLS LIMITED
UNIT-GULARIA: DIVISION-CHEMICAL


GCM/EC/940

Date:01-03-2021

REVISED-ENVIRONMENTAL MANAGEMENT CELL

In order to ensure compliance of the terms and conditions of Environmental Clearance granted by the Govt. of India, Ministry of Environment, Forest & Climate Change, New Delhi vide letter No.F.No.J-11011/236/2018-IA-II(I) dated 05-11-2019, Point No. 9.1 (x) wherein it is mentioned that a separate Environmental Management Cell equipped with full-fledged laboratory activities shall be set up to carry out the Environmental Management and Monitoring functions, the undersigned is pleased to constitute a Revised Environmental Management Cell as under who will oversee in the matter.

Sl.	Name	Designation	Duties Performed
1.	Mr.N.K.Agarwal	Executive President	Overall Incharge of Unit
2.	Mr.Sanjay Kr.Mishra	DGM (Power Plant)	Overall Incharge of Power Plant
3.	Mr.Ajay Kr. Srivastava	Chief Manager (QC)	Incharge of Sugar E.T.P.
4.	Mr.Vinod Kr. Mishra	Manager (Prodn.), Distillery	Incharge of Distillery Process & Environment.
5.	Mr.Lakhan Lal Trivedi	Manager (HR & Admin.)	Overall Incharge of Personnel & Administration.
6.	Mr.Satendra Kr.Singh	Dy.Manager (Horticulture)	Incharge of Horticulture
7.	Mr.Niwas Kapri	Assistant Manager (Security)	Incharge of Security & Safety.
8.	Mr.Rakesh Pal	Safety Officer (M/s.Katyayan Security)	Incharge of Safety.


[N.K.AGARWAL]
EXECUTIVE PRESIDENT
10/1/21

BALRAMPUR CHINI MILLS LIMITED
UNIT-GULARIA, DIVISION-CHEMICAL

GCM/EHS/Distillery/ 597

Date:01-03-2021

REVISED EHS COMMITTEE

In order to implement Environmental, Health and Safety Policy of Balrampur Chini Mills Limited, Unit-Gularia, Division-Chemical, we are constituting revised EHS Committee as follows :-

1.	Shri Vinod Kr.Mishra	Manager (Prodn.)	Committee Head
2.	Shri Sanjay Kr.Mishra	DGM (PP)	Member
3.	Shri Lakhan Lal Trivedi	Manager (HR & Admin)	Member
4.	Shri Rajneesh Chandra	Manager (Engg.)	Member
5.	Shri Abid Hassan	Manager (Boiler & PP)	Member
6.	Shri Niwas Kapri	Asstt.Manger (Security)	Member
7.	Shri Rajesh Pal	Safety Officer	Member
8.	Shri Badri Nath Sharma	Sr.Instrument Technician	Member
9.	Shri Ram Babu Sharma	Fitter	Member

The committee will meet quarterly to review all the training programmes and compliances in accordance with EHS Policy in the Distillery unit . The committee will also submit a report to the undersigned for our perusal and further advice in the matter, if required.


[N.K.AGARWAL]
EXECUTIVE PRESIDENT


Annexure – 08

Copy of Environmental Clearance

F. No.J-11011/236/2018-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jor bagh Road, New Delhi - 3
Dated. 5th November, 2019

To,

M/s Gularia Chini Mills, Distillery Unit
(A unit of Balrampur Chini Mills Limited),
Village Rudrapur Gularia, Tehsil Golagokarannath,
District Lakhimpur Kheri (UP)

Sub: Setting up molasses based distillery of 160 KLD by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No.IA/UP/IND2/75830/2018 dated 27th March, 2019, for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) in an area of 8.747 ha located at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP). The project also involves installation of 8 MW Co-generation power plant.
3. Land area available for the project is 8.747 ha. Industry shall develop greenbelt in an area of-2.88 ha, covering 33% of total project area. The estimated project cost is Rs 208 742 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 110 crores and the recurring cost (operation and maintenance) will be about Rs 11 crores per annum. Employment opportunity will be for 160persons.
4. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and Wildlife Corridors etc. within 10 km from the project site. Sharda River flows at 6.6 km in the East direction from the project location.
5. Total water requirement is estimated to be 2816 cum/day, which includes fresh water requirement of 960 cum/day, proposed to be met from ground water. The proposal in this regard has been recommended to CGWA by CGWB (Northern Region), Lucknow vide letter dated 22nd February, 2019.

Spent wash of 800 cum/day shall be treated in MEE and concentrate from MEE will be incinerated in Slop fired boiler. Other effluent of 1139 cum/day shall be treated through Condensate Polishing unit. Treated effluent shall be reused/recycled in the process/boiler/cooling tower. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement of 4.5 MW shall be met from own Co-Generation plant. Unit will install Stopp fired boiler of 60 TPH capacity. Electro static precipitator with a stack of height of 72m will be installed to control particulate emissions.

Carbon dioxide will be generated from fermentation process shall be recovered from the process and sold to beverage industry. Ash of 60.03 TPD will be mixed with fermenter sludge and utilized as manure, in the proposed granulation plant.

6. The project/activity is covered under category A of item 5 (g) 'Distilleries' of the schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal/approval at Central level in the Ministry.

7. Standard Terms of Reference for the project was issued on 24th August, 2018. Public Hearing for the proposed distillery project has been conducted by the State Pollution Control Board on 22nd February, 2019. The main issues raised during the public hearing are related to employment, health issues, waste water, water sources and odour issues, etc.

8. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 6-8 May, 2019 & 26-28 June, 2019. The project proponent and their accredited consultant M/s Ascenso Enviro Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory, in consonance with the presented ToR, and recommended the project for grant of environmental clearance.

9. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills** at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

(a) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board as required.

(b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(d) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(e) Coal shall not be used as fuel in boiler.

(f) Total fresh water requirement shall not exceed 960 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

- (g) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- (h) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (i) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (j) The company shall undertake waste minimization measures as below:-
- (i) Metering and control of quantities of active ingredients to minimize waste.
 - (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - (iii) Use of automated filling to minimize spillage.
 - (iv) Use of Close Feed system into batch reactors.
 - (v) Venting equipment through vapour recovery system.
 - (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (k) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (l) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.
- (m) At least 5% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (n) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (o) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (p) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (q) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- (r) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (s) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit

shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

(i) CO₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.

9.3 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.

(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

(iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(vi) The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.

(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.

(viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(xiv) The environmental statement for each financial year ending 31st March in Form V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.


(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.mca.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

12. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.


(Dr. R. B. Lal)
Scientist E

Copy to:

1. The Additional Principal Chief Conservator of Forests, MoEF&CC, Regional Office (CZ) Kendriya Bhavan, 5th Floor, Sector H, Aliganj, **Lucknow** - 226020
2. The Principal Secretary, Department of Environment, Government of Uttar Pradesh, Sachivalaya, Babu Bhawan, Adjacent to Vidhan Sabha, **Lucknow** - 226001 (UP)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Uttar Pradesh Pollution Control Board, PICUP Bhawan, Vibhuti Khand, Gomti Nagar, **Lucknow** (UP)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi** - 3
6. Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Man Singh Road, **New Delhi**-110011
7. District Collector, **Lakhimpur Kheri (UP)**
8. Guard File/Record File/Monitoring File/Website of MoEF&CC

(Dr R B Lal)
Scientist E



**Half – Yearly Compliance Report
On
Environmental Clearance Conditions**

(MoEF & EE Letter No. J-11011//236/201/-IA-II (I) Dated 5th November 2019)

Period: October-2020 to March-2021

Submitted By:

M/s Balrampur Chini Mills Ltd.

Unit-Gularia, Division-Distillery

P.O.-Nausar Gularia,

Distt: - Lakhimpur Khiri (U.P.)

Pin-262901



BALRAMPUR CHINI MILLS LIMITED

UNIT-GULAHIA

FACTORY ADDRESS : BALRAMPUR CHINI MILLS, VILL. BALRAMPUR, P.O. BALRAMPUR, GULAHIA, DISTT. BALRAMPUR (UP) PIN-201302
PHONE : 05275-242000/006, 05274-62000, 042026047 BALRAMPUR - 011-4386000, E-mail: unitg@bclm.com
CIN : U28298UP1999PLD000194, USTIN: 09AAAC060750106

GCMEC Compliance Report *9/15*

Date: 23.04.2021

The Joint Director (Scientist)
Ministry of Environment, Forest and Climate Change
Kendriya Bhawan, 5th Floor
Sector-11, Aliganj,
Lucknow-226023

Subj: Six Monthly Environmental Compliance Report & Data Sheet

Ref.:

1. Environmental Clearance letter no. J-11011/216/2018-IA-3(I) dated 05-11-2019 issued by the Scientist E, OCH, MoEF&CC, (IA-II Section), New Delhi
2. Ymc letter No., Ehc.No./V/Env/UP/Ind-120518/2019/097 dated 18-11-2019

Dear Sir/Madam,

With reference to above, we are enclosing herewith six monthly Environmental Compliance Report along with Data Sheet of our Chemical Division for the period from October-2020 to March-2021 as per Environmental Clearance issued by the Scientist E, GOI, Ministry of Environment, Forest & Climate Change vide his letter No. J-11011/236/2018-IA-II (I) dated 1st November-2019 for your record please.

Thanking you,

Yours faithfully,
Balrampur Chini Mills Ltd.
Unit-Gulaha, Division-Distillery


AUTHORIZED SIGNATORY

Encl.: As above

BALRAMPUR CHINI MILLS LTD.: UNIT-GULARIA, DIVISION-CHEMICAL
Vill.-Gularia P.O-Nausar Gularia, Distt-Lakhimpur Kheri-262901(U.P)
Sub-Compliance of Condition stipulated in Environmental Clearance issued for 160 KLD Molasses
Based Distillery vide MOEF & CC Environmental clearance Letter
No-F.No.J-11011/236/2018-IA-II (I), Dated-5th November, 2019.

Period of Compliance October 2020- March 2021

2	The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) in an area of 8.747 ha located at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP). The project also involves installation of 8 MW Co-generation power plant.
3.	Land area available for the project is 8.747 ha. Industry shall develop greenbelt in an area of 2.88 ha, covering 33% of total project area. The estimated project cost is Rs 208.742 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 110 crores and the recurring cost (operation and maintenance) will be about Rs. 11 crores per annum. Employment opportunity will be for 160 persons.
4.	There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and Wildlife Corridors etc. within 10 km from the project site. Sharda River flows at 6.6 km in the East direction from the project location.
5.	Total water requirement is estimated to be 2816 cum/day, which includes fresh water requirement of 960 cum/day, proposed to be met from ground water. The proposal in this regard has been recommended to CGWA by CGWB (Northern Region), Lucknow vide letter dated 22 February, 2019. Spent wash of 800 cum/day shall be treated in MEE and concentrate from MEE will be incinerated in Slop fired boiler. Other effluent of 1139 cum/day shall be treated through Condensate Polishing unit. Treated effluent shall be reused/recycled in the process/boiler/cooling tower. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge. Power requirement of 4.5 MW shall be met from own Co-Generation plant. Unit will install Slop fired boiler of 60 TPH capacity. Electro static precipitator with a stack of height of 72m will be installed to control particulate emissions. Carbon dioxide will be generated from fermentation process shall be recovered from the process and sold to beverage industry. Ash of 60.03 TPD will be mixed with fermenter sludge and utilized as manure, in the proposed granulation plant.
6.	The project/activity is covered under category A of item 5 (g) 'Distilleries of the schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal/approval at Central level in the Ministry
7.	Standard Terms of Reference for the project was issued on 24 th August, 2018. Public Hearing for the proposed distillery project has been conducted by the State Pollution Control Board on 22 February, 2019. The main issues raised during the public hearing are related to employment, health issues. waste water, water sources and odour issues, etc.
8.	The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 6-8 May 2019 & 26-28 June, 2019. The project proponent and their accredited consultant M/s Ascenso Enviro Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory, in consonance with the presented ToR, and recommended the project for grant of environmental clearance.
9.	Based on the proposal submitted by the project proponent and recommendations of the EAC (industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills at Village Rudrapur Gularia, Tehsil Gola-Gokarannath District Lakhimpur Khen (UP), under the provisions of the EIA Notification, 2006, and the amendments there in, subject to compliance of the terms and conditions as under.

Sr. No.	Conditions	Compliance Status
9 (a)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable from time to time, shall be obtained from the state Pollution control Board as required.	<p>All the Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable obtained from UPPCB, Lucknow as under :-</p> <p>1.) Consent Order (CTO) under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent vide letter No. 108580/UPPCB/ Lucknow (LAB)/ CTO/air/LUC dated 05/12/2020.</p> <p>2) Consent Order (CTO) under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) vide letter No. 108586/UPPCB/ Lucknow (LAB)/ CTO/air/Lucknow/2020 dated 05/12/2020.</p> <p>Is enclosed as Annexure-1.</p>
(b)	As already committed by the project proponent, Zero liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	<p>Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve Zero Liquid Discharge and we are maintaining the same.</p> <p>Effluent other than spent wash like spent lees, Process condensate and utilities effluent is being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP), and treated water from CPU/ERP is being used in process & cooling tower makeup water.</p>

(c)	Necessary authorization required under the hazardous and other wastes (Management and Trans boundary Movement) Rules, 2016, solid waste management rules, 2016 shall be obtained and the provisions contained in the rules shall be strictly adhered to.	We have receipt Authorization for Hazardous Wastes from UPPCB, Lucknow. Ref. No. 11713/UPPCB/Lucknow (UPPCBRO)/HWM/LA KHIMPUR KHIRI/2020 dt. 04/05/2020
(d)	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	The gaseous emissions from various process units is as per load/mass based standards notified by the Ministry on 19th May, 1993 and standards prescribed from time to time by CPCB and UP Pollution Control Board. Stack Emission Monitoring Report is enclosed as Annexure-2 .
(e)	Coal shall not be used as fuel in Boiler.	We are using only Slop & Bagasse in Incineration Boiler as a fuel for Steam and power generation.
(f)	Total fresh water requirements shall not exceed 960 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regards.	We have obtained necessary NOC from CGWA, New Delhi vide letter No. CGWA/NOC/IND/ORIG /2019/5428 which is valid up to 27-05-2021 is enclosed as Annexure-3 .
(g)	Hazardous chemical shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvents transfer through pumps.	We have already stored all the Hazardous chemical in tanks, tank farms, drums, carboys etc. Flame arrester is also provided on tank farm and the solvents transfer through pumps.
(h)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed-off to the TSDF.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and are producing Granular potash in our Granulation Plant.

(i)	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of hazardous Chemical (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.	The company has strictly complied with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.
(j)	The company shall undertake waste minimization as below:-	
(i)	Meeting and Control of quantities of active ingredients to minimize waste.	We are using ingredients in optimum quantity for the control of wastage.
(ii)	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and are producing Granular potash in our Granulation Plant.
(iii)	Use of automated filling to minimize spillage.	Automated filling system is already installed to minimize spillage.
(iv)	Use of close feed system into batch reactors.	Close feed system are used into batch reactors.
(v)	Venting equipment through vapour recovery system.	We have proper arrangement for vapours recovery System.
(vi)	Uses of high pressure hoses for equipment's cleaning to reduce waste water generation.	We are using High Pressure Jet Cleaning Machine for equipment's cleaning to reduce waste water generation.
(k)	The green Belt of 5-10m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road side etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State forest Department.	Provision of green belt in 33% of total project area has already been taken place and plantation is being done regularly inside factory premises as per CPCB & DFO advice. We have planted 12500 plants up to 31.03.2021. Photographs are annexed as Annexure-4 .

(l)	All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.	All the Commitments made during the Public Hearing are complied.
(m)	At least 5% of the total project cost shall be allocated for Corporate Environmental Responsibility (CER) and item wise details along with time bound action plan shall be prepared and submitted to the Ministry Regional Office.	As per the MoEF Office Memorandum dated 30.09.2020 superseding the Office Memorandum dated 01.05.2018 regarding the Corporate Environmental Responsibility, the unit is committed and is providing education funds in training centers/support in nearby villages school, support in health care facilities, drinking water supply, and allocated funds for miscellaneous activities like solar street lights, battery, solar panel etc. in nearby villages. Copy of the Office Memorandum dated 30.09.2020 is enclosed as Annexure- 5 .
(n)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustics enclosures shall be provided to DG set for controlling the noise pollution.	DG sets emission limits and stack height is as per conformity with extant regulations and the CPCB guidelines. Acoustics enclosures provided to DG Set for controlling the noise pollution.
(o)	The unit shall make the arrangement for protection of possible fire hazardous during manufacturing process in material handling. Firefighting system shall be as per the norms.	Industry has already installed well established firefighting arrangement for protection of possible fire hazardous during manufacturing process in material handling. All the Firefighting system is as per the norms.

(p)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	An occupational health Surveillance program is already in our system. Medical facilities have been provided by industry for proper checkup the health of employees. For this purpose industry has well equipped hospital inside the factory Campus for regular monitoring of the employee's health and medical records of each employee are also maintained. Report is enclosed as Annexure-6 .
(q)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Industry has already earmarked adequate space inside the plant premises for parking of vehicles for raw materials and finished products.
(r)	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	We have provided MS tanks for storage of raw material i.e. Molasses to prevent dust pollution and other fugitive emissions.
(s)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Online monitoring system (24 X 7 Monitoring devices) has been installed at stack emission, spent wash generation & slop consumption in boiler. As this is a zero liquid discharge based unit, hence web camera has been installed as per CPCB guidelines near spent wash storage lagoon and MEE & Incineration area of Distillery.
(t)	CO ₂ generated from the process shall be bottled/made solid ice and sold to authorize vendors.	CO ₂ Plant installed and Production of Liquid CO ₂ and Dry Ice started on dated 01.03.2021 and sold to authorize vendors.

Sr.No.	(A) Specific Conditions	Compliance Status
9.1 I	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) State Government and / or any other statutory authority.	Being adhered as per the stipulation made by UP Pollution Control Board and the State Government.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No expansion or modification work has been carried out without prior approval of The Ministry of Environment, Forest and Climate Change.
iii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concern stations are anticipated.	Ambient Air quality monitoring stations have already been set up in consideration of maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission are regularly submitted to UPPCB/CPCB and Regional Office, of MoEF & CC at Lucknow once in six months. Ambient Air Quality Monitoring Report is enclosed as Annexure-2
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16 th November, 2009 shall be complied with.	We have already complied The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009.Ambient Air quality Report are attached as Annexure-2

V	<p>The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p>	<p>We have already provided noise control measures including acoustic hoods, silencers, enclosures etc. on all the noise generating sources to maintain the overall noise level in and around the plant area are within the Standards (85dBA). Noise control measures have already been planned and enclosures would be put to keep the ambient noise level below 75 dBA (day time) and 70 dBA (night time). Noise Level Monitoring Report is enclosed as Annexure-2.</p>
Vi	<p>The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.</p>	<p>Rain water harvesting measures are already taken for the recharge of ground water and to utilize the same for different industrial operations within the plant.</p>
Vii	<p>Training shall be imparted to all employees on safety and health aspects of chemicals handling Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.</p>	<p>We have imparted training to all employees on safety and health aspects of chemicals handling Pre-employment as well as routine periodical medical examinations for all employees undertaken on regular basis.</p>
Viii	<p>The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.</p>	<p>All the environmental protection measures and safeguards recommended in EIA/EMP reports have been effectively implemented in respect of environmental management, risk mitigation measures and public hearing.</p>

Ix	<p>The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.</p>	<p>We are already undertaking socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.</p> <p>Besides this we have also organized free medical health check-up camps in nearby villages under supervision of expert Doctors.</p>
x	<p>A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.</p>	<p>Environmental Management Cell is in place and equipped with full fledge laboratory facility to carry our environmental monitoring functions.</p> <p>Annexure-7</p> <p>We have full-fledged Environmental Laboratory for testing and monitoring of treatment units parameters.</p> <p>The equipment's available in Lab are as under:-</p> <ul style="list-style-type: none"> ▪ Laminar Flow ▪ BOD incubator ▪ Centrifugal Machine ▪ Electric Oven ▪ Muffle Furnace ▪ pH Meter ▪ Conductivity Meter and TDS Meter ▪ Electronic Weighing Machine ▪ COD reflux unit ▪ Turbidity meter ▪ DO meter ▪ Oxygen Analyzer ▪ Multi-gas Detector

Xi	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management /pollution control measures shall not be diverted for any other purpose.	There is no paucity of funds for environmental pollution control measures (i.e.-Air Pollution Control, Water pollution control, Noise pollution control, Solid waste management, Environmental monitoring and Surveillance, Occupational Health Management & Green belt development) to implement the conditions stipulated by MOEF&CC as well as the State Pollution Control Board.
Xii	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	Copy of Clearance Letter already sent to all concerned in compliance of guidelines.
xiii	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.	Six monthly compliance reports (both in hard copies as well as by e-mail) along with monitored data are submitted to the Regional Office of MoEF&CC, CPCB and UP Pollution Control Board, Lucknow.
Xiv	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional officers of MoEF&CC by e-mail.	We have submitted the environmental statement report in Form-V to the state Pollution control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and also submitted to the Regional Office of the MoEF&CC at Lucknow.
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely	Already advertised in two local newspapers i.e. Hindustan(Barielly Edition) dated 03.12.2019 & Rashtriya Sahara (Lucknow Edition) dated.

	circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	01.12.2019. A copy of the same was already forwarded to the MoEF&CC, Regional Office, Lucknow under cover of our letter No.GCM/MoEF/3639 dated 03-12-2019.
10	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Environmental protection measures as stipulated are being completed with time frame. Concerted efforts are being put for implementation of all condition as directed.
11	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	We assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a clean and safe environment in an around manufacturing facility and continued our efforts for the same.
12	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	No any appeal is lying against this Environmental Clearance with the National Green Tribunal.
13	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	Provision of Compliance of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments are also complied as directed.

We once again assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a safe, clean & green environment in an around manufacturing facility and continued our efforts for the same.

Thanking you,

Yours faithfully,

**For Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Distillery**

A handwritten signature in black ink, appearing to read 'N. K. Ghoshal', is written over a faint rectangular stamp.

Authorized Signatory

MONITORING REPORT
PART-1
DATA SHEET

1.	Project Type : (DISTILLERY)	Production of RS/ENA/AA-160 KLPD alongwith 7.56 MW Co-generation power plant.
2.	Name of Project	M/s. Balrampur Chini Mills Ltd., Unit- Gularia, Division-Distillery Village Rudrapur Gularia, Tehsil-Golagokarannath, District-Lakhimpur Kheri-262901(UP)
3.	Clearance letter/OM No. & Date	MoEF No.-J-11011/236/2018-IA-II(I) Date: 5 th November,2019
4.	Location District State Latitude/Longitude	Lakhimpur Kheri Uttar Pradesh Latitude 28°13'41.32"N and Longitude 80°38'15.47"E
5.	Address for Correspondence Address of concerned Project Incharge	Shri Vinod Kumar Mishra Manager (Production) Balrampur Chini Mills Ltd. Unit-Gularia, Division-Distillery Vill.-Rudrapur Gularia ,Post- Nausar Gularia, Tahsil- Golagokarnnath Distt- lakimpur Kheri-262901(U.P.) Ph. 8218830589, 9410651692 Email- v.mishra@bcml.in
	Name & address of Nodal Officer with Phone No./Fax Number(s)/Mobile Nos.	Shri Vinod Kumar Mishra Manager (Production) Balrampur Chini Mills Ltd. Unit-Gularia, Division-Distillery Vill.-Rudrapur Gularia ,Post- Nausar Gularia, Tahsil- Golagokarnnath Distt- lakimpur Kheri-262901(U.P.) Ph. 8218830589, 9410651692 Email- v.mishra@bcml.in
6. (a)	Salients Features of the Project	(a) Molasses based Distillery. (b) Plant Capacity – 160 KLPD RS/ENA/AA (c) Water consumption - 6 Lit/Lit of Spirit (d) Spent wash generation – 800 KLPD (e) Waste water discharge - ZLD (f) Waste water Treatment system – Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve zero discharge. Zero discharge condition is being maintained. Effluent other than spent wash like spent lees, Process condensate and utilities effluent are being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP) and treated water from CPU/ERP is being used in process & cooling tower makeup water.
(b)	of the Environmental Management Plan	Distillery is based on Zero Liquid discharge technology in which 100% spent wash is being concentrated in MEE and then Concentrated spent wash i.e. Slop used as a fuel and burn in Incineration Boiler.

7.	Breakup of the Project area	Project area - 8.747 Hectare Green belt - 2.88 Hectare(33% of Project area)			
8.	Breakup of the project affected population with enumeration of those losing houses/ dwelling unit only units and agricultural land less labourers/ artisans. (a) SC/ST Adivasis (b) Others (c) Number of villages affected (d) Name and other particulars of Identified area for settlem. (e) Compensation package (f) Budget (g) Status	----- Not applicable -----			
9.	Financial details				
(a)	Project cost of originally planned subsequent revised estimated and the years of price referen.	Initially Project Cost: Rs. 208.742 Crores. Cost towards Environmental protection measures (Capital cost) :Rs.110 Crores Recurring cost towards Environmental control measures :Rs.11 crores			
(b)	Allocations made for Environment Management plans, with item wise breakup.	S. No.	Description	Capital Cost (Lakhs)	Recurring Cost/annum (Lakhs)
		1.	Air Pollution control	418	52
		2.	Water Pollution Control(CPU/ERP Plant)	85	5
		3.	Solid waste management(Granulation Plant, Ash handling area)	100	2
		4.	Environmental moni-toring and Management	25	2
		5.	Green belt Development	35	4
		6.	Rain water harvesting Measures & others	35	3
		7.	CO2 recovery	350	40
		8.	Miscellaneous (Online monitoring system & web camera)	52	2
		Total		1100	110
(c)	Benefit cost ratio/internal rate of return and the year of assessment.	Shall be submitted as soon as possible			

(d)	Whether (c) includes the cost of environmental management as shown in (b) above.	
(e)	Actual expenditure incurred on the Environmental Management plan so far.	We have invested Rs. 110 Crores up to 30-09-2019.
10.	<p>Forest and requirement</p> <p>(a) The status of approval for a diversion of forest land for forest use.</p> <p>(b) The status of compensatory afforestation's, if any.</p> <p>(c) The status of clear felling.</p> <p>(d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.</p>	----- Not Applicable -----
11.	The status of clear felling in non-forest is.	----- Not Applicable -----
12.	Status of construction :	
(a)	Date of Commencement (actual and / or planned).	January-2020
(b)	Date of Completion (actual and/or planned)	Plant is running under consent of UPPCB.
13.	Compliance report on Environmental clearance conditions.	Enclosed herewith

For **Balrampur Chini Mills Ltd.**
Unit- Gularia,Division-Distillery



Authorized Signatory

:- List of Enclosed Annexures :-

Sl. No.	Particulars	Annexure No.
1	Copy of Air & Water Consent to Operate	Annexure-1
2	Monitoring/Testing Report	Annexure-2
3	Copy of CGWA NOC	Annexure-3
4	Photographs	Annexure-4
5	MoEF Office Memorandum	Annexure-5
6	Health Record of Employees	Annexure-6
7	Copy of Environmental Management Cell	Annexure-7
8.	Copy of Environmental Clearance.	Annexure-8

Annexure 1

**Copy of Air & Water
Consent to Operate**



UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

**Ref No. -
108580/UPPCB/Lucknow(LAB)/CTO/water/LUC
KNOW/2020**

Dated : 05/12/2020

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
,LUCKNOW,262901
LUCKNOW

**Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974
(as amended) for discharge of effluent to M/s. Balrampur Chini Mills Limited Unit Gularia
Division Chemical**

Reference Application No :9928065

Dated :05/12/2020

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tant/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 01/01/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Previntion and Controt of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.12.05 13:31:01 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.12.05 13:31:31 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.Balrampur Chini Mills Limited Unit Gularia Division Chemical vide

Consent Order No. 9928065/ Water

Dated : 05/12/2020

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of 160 KLD ENA/RSA/AA and 8.0 MW co-power generation.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	20.0 KLD	Septic Tank
2	Industrial	960 KLD (ZLD)	ETP

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. It should be ensured that domestic effluent should not be discharged in storm water drain.
- 4(a) The domestic effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms.

Domestic Effluent		
S.No	Parameter	Standard

5. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry.
6. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under the Environment (Protection) Act, 1986.
7. The industry shall not discharge any trade effluent outside the premises and Zero Liquid Discharge (ZLD) shall be maintained all the time.
8. Molasses shall not be stored in kachcha pits.
9. If UPPCB or CPCB issues closure order against the industry, this consent shall remain suspended for the period till closure order is revoked, after which the consent will be effective again for the remaining period.
10. The unit should be operated in such a way so that there is no adverse impact on public and environment.
11. Unit must maintain on line connectivity of mass flow meters at the inlet and outlet of MEE and web cameras installed at the final outlet, MEE and Bio Compost yard and connected with server of CPCB and UPPCB.
12. The unit shall ensure deployment of qualified staff for self monitoring mechanism on 24 X7 hours basis.
13. Volume of spent wash shall be reduced to 40 % minimum and solid concentration shall be maintained minimum 30% at the outlet of MEE.
14. Unit shall identify recipient drains/rivulets and their upstream & downstream locations in consultation with UPPCB and shall carry out monthly monitoring of identified recipient drains at upstream & downstream location through recognized lab under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis by 10th of every month to CPCB and UPPCB.
15. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity at any stage shall not exceed 07 days equivalent of production in case of incineration boiler and 30 days equivalent of production in case of bio composting.
16. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.

17. Industry shall ensure to send monthly reports regarding spent wash storage and details of spent wash in each lagoon constructed in industry.
18. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This consent is valid for the production of 160 KLD ENA/RSA/AA using 720 TPD Molasses as main raw material and 8.0 MW co-power generations.
2. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
3. The industry shall ensure to operate and maintain properly the MEE and the condensate polishing unit (CPU) to ensure Zero Liquid Discharge; failing which, this consent order shall be treated as cancelled.
4. The industry shall comply with all other directions issued under the Water (Prevention and Control of Pollution) Act, 1974 stipulated by Central Pollution Control Board, New Delhi to ensure achievement of Zero Liquid Discharge positively.
5. Industry shall operate and maintain measuring devices (water/ flow meters) at required location (raw water consumption, solid separation system, feed, permeate and reject, evaporation concentration systems, feed concentrate and condensate, water reused in the process & concentrate utilized in drying system/equivalent technology) to record the water balance shortly without delay.
6. Industry shall install web cameras at each strategic location such as MEE, and CPU, spent wash storage lagoon etc. for monitoring purpose. The web cam should be connected to the server of CPCB and UPPCB.
7. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity of concentrated spent wash, at any stage shall not exceed 07 days equivalent of production.
8. Industry shall operate and maintain the effluent treatment system effectively and regularly. All the effluent treatment system shall be kept in good running condition all the time and failure (if any), shall be immediately rectified without delay otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Industry shall not discharge any treated / untreated effluent in to the river or any surface water bodies. No effluent shall be discharged outside of the factory premises in any circumstances; hence zero discharge condition shall be maintained at all the time.
9. Industry shall make proper arrangement for safe and scientific handling, storage, transportation and disposal of all solid wastes, sludge etc. generated.
10. Spent wash generation, storage shall be done as per the guidelines of CPCB.
11. Measuring system for spent wash storage shall be installed.
12. The industry shall submit ground water quality analysis report of the nearby areas on quarterly basis in coordination with UPPCB.
13. The industry shall ensure strict compliance with the conditions mentioned in the Environmental Clearance issued by MoEFF & CC.
14. The industry shall ensure strict compliance with the conditions mentioned in the NOC dated 04.12.2017 issued to it by CGWA for abstraction of ground water.
15. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.
16. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
17. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.
18. The industry shall submit approved on site disaster management plan.

19. The industry shall provide copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter reading connected with CPCB server etc. on monthly basis (by 10th of every month) to CPCB/UPPCB.
20. The industry shall provided adequate arrangement for control of odour nuisance. All internal roads shall be made pucca. Industry shall maintain good housekeeping within factory premises, around effluent treatment facilities etc.
21. No waste water will be discharged outside the industry premises and zero liquid discharge shall always be maintained.
22. The industry shall ensure to keep the Bio-compost yard completely empty before the onset of rainy season.
23. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
24. Analysis report from recognized laboratory for Solid concentration at inlet and outlet of MEE should be submitted to the Board within one month from the date of issue of this certificate.
25. The industry shall comply with the provisions of, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
26. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2020.12.05 13:32:17 +05'30'
Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD
Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. - 108586/UPPCB/Lucknow(LAB)/CTO/air/LUCKNOW/2020

Dated : 05/12/2020

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
.LUCKNOW,262901
LUCKNOW

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical

Reference Application No. 9928583

Dated : 05/12/2020

1. With reference to the application for consent for emission of air pollutants from the plant of M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 01/01/2021 to 31/12/2022 .
3. Inspite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2020.12.05 13:34:10 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar
Agarwal

Digitally signed by Pramod
Kumar Agarwal
Date: 2020.12.05 13:34:40 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. Pollution Control Board

Dated : 05/12/2020

CONDITIONS OF CONSENT

- 1(a). The details of Air pollution sources and stacks attached with Boiler

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	01nos. Slop Fired Boiler (capacity - 60 TPH)	Bagasse and slop	1	Particulate Matter	72 meter

- 1(b) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	1	Particulate Matter	150 mg/Nm3

- The equipment for air pollution control system and monitoring, as proposed by the industry and approved by the Board should be installed in their premises itself.
- Industry shall dispose the incineration boiler ash in such a manner so that there should not be any adverse impact on public health at large and on Soil, Water & Air environment.
- The modification or installation in the existing pollution control equipment shall be done only by prior approval of the Board.
- The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants shall be in accordance with the standards prescribed by the Board/MoEF& CC/or otherwise mandatory.
- Unit shall do provisions for control of fugitive emissions from process as per the norms of the Board/MOEF & CC/or otherwise mandatory.
- The unit shall submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report analysed by Board/NABL accredited laboratory shall be submitted.
- In case of closure directions under section-5 of E (P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.
- Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com.
- Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
- Industry shall abide by orders / directions issued by Hon'ble Supreme court, Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time.

The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This consent is valid for the production of 160 KLD ENA/RSA/AA using 720 TPD Molasses as main raw material and 8.0 MW co-power generation.
2. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
3. The industry shall operate and maintain properly the 60 TPH slop fired Incineration boiler and ESP as per the conditions imposed in the CTE issued by the Board for the same.
4. Online Emission Monitoring System shall be installed at the boiler stack and connected to CPCB and UPPCB server.
5. The industry shall operate and maintain the Air Pollution Control System efficiently and continuously so as to satisfy the prescribed emission standards.
6. The industry shall adhere to the ambient Air quality prescribed standards at all the time.
7. The unit shall develop green belt as per the Protocol attached with Board's office order H 16405 /220/2018/02 dated 16-2-2018, which is available on the Board's website- www.uppcb.com.
8. The Ash generated from the Slop Boiler shall be utilized for making manure and its record be sent to the Board regularly. The total ash generated shall be disposed in such a way that it should not affect the soil and the surrounding environment.
9. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
10. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.
11. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.
12. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
13. The industry shall comply with the provisions of, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
14. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .
Prmod Kumar Agarwal Digitally signed by Prmod Kumar
Agarwal
Date: 2020.12.05 13:35:22 +05'30'
Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD

TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226010

Ref. No : 11713/UPPCB/Lucknow(UPPCBRO)/HWM/LAKHIMPUR KHIRI/2020 Dated: 04/05/2020

To,

M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical

VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901 (U.P), LAKHIMPUR KHIRI, 262901

Tehsil : Gola Gokaran Nath

District : LAKHIMPUR KHIRI

Sub :- Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1. Number of authorization and date of issue 11713 and 04/05/2020 .
2. Reference of application (No. and date) 8280049 and 17/03/2020 .
3. Mr NK AGARWAL of M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, utilization, storage and disposal or any other use of hazardous or other wastes or both on the premises situated at VILL. RUDRAPUR GULARIA, NAUSAR GULARIA, LAKHIMPUR- .

Details of Authorisation

S No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing, etc.	Quantity (ton/annum)
1	Sch-1, Cat.-5.1 (Used/Waste Oil)	TSDf	9.0 MT/Annum

1. The authorization shall be valid for a period of 05/05/2024 from the date of issue of this letter .
2. The authorization is subject to the following general and specific conditions (please specify any conditions that need to be imposed over and above general conditions, if any) .

A General Conditions of Authorization -

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under .
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Board .
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization .
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation .
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time .

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and penalty .
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility .
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation .
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained .
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation .
11. The importer or exporter shall bear the cost of Import or export and mitigation of damages if any
12. An application for the renewal of an authorisation shall be made as laid down under these Rules .
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Changes or Central Pollution Control Board from time to time .
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year .

B Specific Conditions of Authorization

1. The authorization shall be valid for a period of Five Years from the date of issue, if not suspended or cancelled earlier.
2. The wastes must be safely collected in leak proof containers and shall be duly marked in a manner suitable for handling, storage and transport and the packaging shall be easily visible and be able to withstand physical conditions and climatic factors. All hazardous waste containers / bags shall be provided with a general label. The storage area should be at an isolated spot in the premises and must be fenced, covered and duly marked.
3. The authorized person/agency shall ensure that no adverse impact on the air, soil and water including groundwater takes place due to activities for which authorization has been requested. Comprehensive safety measures must be followed in handling of wastes and the staff must be properly trained.
4. It is brought to your notice that as per the order dated 14-11-2003 passed by the Hon'ble Supreme Court in W.P. (c) No. 657 of 1995, no industry covered under Hazardous and other Wastes (Management and Tran boundary Movement) Rules, 2016 shall be allowed to operate without valid authorization. It is also provided in the same orders that industries which are not complying with the conditions of authorization shall not be allowed to operate. Hence in case you fail to apply for authorization, before its expiry or fail to comply with conditions of the earlier authorization issued to you, closure order shall be issued against your industry without any further notice.
5. The applicant must file returns on prescribed Form- 4 along with a compliance report of this letter and should also maintain records on Form 3 and present it to Board's inspecting officials.

6. In case of occurrence of an accident, complete details on form must be sent to U.P. Pollution Control Board at the earliest along with details of mitigative and remedial measures taken.
7. The authorized person/agency shall not receive, collect, or store any hazardous waste from any unauthorized occupier or generator of hazardous wastes. In case any hazardous wastes is sold to any other reprocessing unit it must be ensured that such unit is fully complying with environmental requirements and has a valid authorization of the Board.
8. In no case any hazardous wastes shall be disposed off on land, in any drain or stream. All spillages of hazardous chemicals, used containers, of hazardous chemicals such as flammable corrosive, explosive and toxic nature must be safely collected and stored. Non-compatible wastes must be suitably and safely handled.
9. It is within the powers and functions of the U.P. Pollution Control Board to modify / revoke the terms and conditions of the authorization/Registration issued under the Rule – 7 of Hazardous and Other Wastes (Management and Tran boundary Movement) Rules, 2016.
10. You are directed to display on-line data/display board outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises. Necessary compliance should be sent within 15 days of receipt of this letter.
11. It is the mandatory duty of the authorized person/agency to comply with the guidelines for transportation of hazardous waste in accordance with rule 18 of Hazardous and Other Waste (Management and Tran boundary Movement) Rules, 2016.
12. It should be ensured that hazardous wastes shall be properly collected and packed in HDPE bags and then temporarily stored in a lined RCC tank/pit with suitable shed.
13. An ETP sludge test report of a laboratory approved under E.P. Act shall be submitted along with compliance of this letter of this office.
14. Used oil shall be sold only to recyclers registered with U.P. Pollution Control Board. The record shall be maintained.
15. The occupier, transporter and operator of a facility shall be liable for damages caused to the environment resulting due to improper handling and disposal of hazardous waste listed in schedule 1,2, and 3 and shall be liable to pay a fine as levied by the State Pollution Control Board under the rules.
16. Details of raw material (which is Hazardous waste) and product along with quantity shall be sent within a month.
17. You shall become the member of any common TSDF for S.L.F. which has been authorized by UPPCB and send the stored hazardous wastes for final disposal to the TSDF and report back to U.P.P.C.B. with the required manifesto (document of proof) within one/three month of this letter.
18. The unit shall ensure that H.W. is regularly sent to Authorized common TSDF and shall not store

for more than 90 days in accordance with under rule 8 of HOWM Rules, 2016.

19. Emission from the Common/Captive incinerator stack shall meet the prescribed standards under Environmental Protection Act. 1986.

20. Copies of Hazardous Waste Manifest in Form-10 shall be sent regularly to UPPCB for each category of waste sent to TSDF/Incinerator.

21. This authorization/Registration is valid till the industry is having valid consent as per the provisions of Air(Prevention and Control of Pollution) Act 1981 and Water (Prevention and Control of Pollution) Act, 1974.

22. Industry shall comply the provisions of EP Act, 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended and E-waste (Management and Handling) Rules, 2016.

23. The industry shall ensure renewal of agreement from TSDF before expiry date.

24. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

(Authorized Signatory)
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:07:38 +05'30'

Pramod Kumar Agarwal

UTTAR PRADESH POLLUTION CONTROL BOARD

Copy to: To the Regional Officer, U.P.Pollution Control Board, Regional Officer, ROUPPCB,
Lucknow. for information and necessary action .

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:09:58 +05'30'

CEO/EE, I/C Circle _____

Annexure-2

Monitoring/Testing Report

**SIX MONTHLY
COMPLIANCE REPORT
(October, 2020 to March-2021)
TEST REPORTS**

Ambient Air	: March, 2021
Stack Monitoring	: March, 2021
Ambient Noise Monitoring	: March, 2021
Ground Water	: October, 2020 to March, 2021
Soil Quality	: March, 2021

Of

**M/s Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Distillery
P.O.-Nausar Gularia,
Distt: - Lakhimpur Khiri (U.P.)
Pin-262901**



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/251, Vishwas Khand, Gomti Nagar, Lucknow - 226 010 (U.P.)

Email: ETRCLTH@YAHOO.IN, Web: www.etrclth.com

ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007

An Approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India under EPA 1986

ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/3680/2020	Date of Report : 21.10.2020
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	15.10.2020	7	Analysis Start Date	15.10.2020
4	Sample Quantity	5.0 litre	8	Analysis End Date	20.10.2020

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-6): 1983 Reaffirmed: 2017	Agresable	Qualitative	Agresable	Agresable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1994 Reaffirmed: 2017	428.4	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ -F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca- B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	48.0	2 - 800	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl- B	35.0	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F- C	0.36	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5630 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	20.24	1 - 500	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2 - 1000	200	600
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	260.8	5 - 5000	200	500
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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Email: ETRCLTH@YAHOO.IN, Web: www.etrindia.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986

Test Report Ref No.: ETRC/EPA/3680/2020

20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.16	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg. B APHA 23 rd Ed. 2017-3120 B (ICP-OES)	34.02	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.06	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.67	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	< 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	< 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

END OF REPORT

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that the data reflects our best attempt to generate accurate results for the sample, mentioned in the report as above.
- The result refers only to the items tested.
- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results under the performance of the customer's contribution to the results.
- All samples subject to Lucknow jurisdiction.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Complain register is available in our laboratory.


 Authorized Signatory
 (Sandeep Kr Verma)
 Lab-In-charge




 Authorized Signatory
 (Ritu Garg)
 QM



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/251, Vigneesh Khurd, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etronda.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate Change, Govt. of India under EPA 1986

ETRC/PM14/TEB-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/3715/2020	Date of Report : 11.11.2020
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	05.11.2020	7	Analysis Start Date	05.11.2020
4	Sample Quantity	5.0 litre	8	Analysis End Date	10.11.2020

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<3.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.3	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1994 Reaffirmed: 2017	432.5	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4600-NH ₃ -F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca, B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	57.8	2 - 1000	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	28.0	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.41	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-38): 1986 Reaffirmed: 2019	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5550 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	24.18	1 - 500	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	292.0	2 - 1000	200	600
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	270.0	5 - 5000	300	500
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.17	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, II APHA 23 rd Ed. 2017-3120 B (ICP-OES)	32.076	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.10	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.41	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	< 7 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	> 3 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL - Below Detection Limit

END OF REPORT

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 Authorized Signatory
 (Sandeep Kr Verma)
 Lab-In-charge




 Authorized Signatory
 (Ritu Garg)
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ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/3941/2020	Date of Report : 28.12.2020
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry Self
3	Sample received date	24.12.2020	7	Analysis Start Date	24.12.2020
4	Sample Quantity	5.0 liters	8	Analysis End Date	28.12.2020

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500-H	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1984 Reaffirmed: 2017	442.8	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ -F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 G	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca. B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	51.0	2 - 500	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	34.0	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.38	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-20): 1985 Reaffirmed: 2019	BDL	0.1-6	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1988 Reaffirmed: 2019	BDL	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	26.03	1 - 500	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	284.0	2 - 1000	200	500
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	268.0	5 - 5000	200	500
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 100	0.05	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.11	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B APHA 23 rd Ed. 2017-3120 B (ICP-OES)	34.02	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.05	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters:							
30	E. coli	MPN/100 ml	IS: 1022 - 1981 Reaffirmed: 2019	Absent	≤ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1022 - 1981 Reaffirmed: 2019	Absent	≤ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	


BDL-Below Detection Limit

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(Sandeep Kr Verma)
Lab-in-charge




Authorized Signatory
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TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4043/2021	Date of Report : 28.01.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry self
3	Sample received date	23.01.2021	7	Analysis Start Date	23.01.2021
4	Sample Quantity	5.0 liters	8	Analysis End Date	27.01.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ¹	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1984 Reaffirmed: 2017	438.2	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca, B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	52.8	2 - 900	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	32.0	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.46	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500 Cl IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1986 Reaffirmed: 2019	1.13	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5630 C	BDL	0.001 - 0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	22.02	1 - 800	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	296.0	2 - 1000	200	600
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	272.0	5 - 5000	200	600
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.13	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B APHA 23 rd Ed. 2017-3120 B (ICP-OES)	34.02	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.04	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.48	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters:							
30	E. coli	MPN/100 ml	IS: 1022 - 1081 Reaffirmed: 2019	Absent	≤ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1022 - 1081 Reaffirmed: 2019	Absent	≤ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	


BDL-Below Detection Limit

END OF REPORT

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TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4084/2021	Date of Report : 16.02.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry Self
3	Sample received date	11.02.2021	7	Analysis Start Date	11.02.2021
4	Sample Quantity	5.0 liters	8	Analysis End Date	15.02.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<4.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H	7.3	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1984 Reaffirmed: 2017	422.4	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca, B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	56.0	2 - 900	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl, B	32.0	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F, C	0.39	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	20.46	1 - 900	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.8	2 - 1500	200	500
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	276.6	5 - 5000	200	600
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/1064/2021

20	Iron as Fe:	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.12	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B APHA 23 rd Ed. 2017-3120 B (ICP-OES)	33.048	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-0120 B (ICP-OES)	0.05	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.79	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters:							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≤ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≤ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

END OF REPORT

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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/EPA/4203/2021		Date of Report : 20.03.2021	
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	53	53
(d)	Average ambient temperature (°C)	24	24
(e)	Time of Sampling Started (Hours)	10:42 am (15.03.2021)	10:42 am (16.03.2021)
(f)	Time of Sampling completed (Hours)	10:13 am (16.03.2021)	10:13 am (16.03.2021)
(g)	Total time of sampling (minutes)	24 hour (1422 minutes)	24 hour (1422 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.565	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1656.63	• 23.698
	• GAS (liter)	• 711.0	

TEST RESULT


Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	83.4	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	49.78	12 - 500	For 24 hour =80
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	13.56	6 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	20.18	6 - 750	For 24 hour =80

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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/EPA/4204/2021		Date of Report : 20.03.2021	
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Boiler House	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	53	53
(d)	Average ambient temperature (°C)	24	24
(e)	Time of Sampling Started (Hours)	10:58 am (15.03.2021)	10:58 am (15.03.2021)
(f)	Time of Sampling completed (Hours)	10:29 am (16.03.2021)	10:29 am (16.03.2021)
(g)	Total time of sampling (minutes)	24 hour (1413 minutes)	24 hour (1413 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.16	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1639.08	• 23542
	• GAS (liter)	• 706.5	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m ³	81.5	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24) : 2019	µg/m ³	46.73	12 - 500	For 24 hour =80
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2) : 2001 Reaffirmed: 2017	µg/m ³	13.49	6 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-8) : 2006 Reaffirmed: 2017	µg/m ³	21.09	6 - 750	For 24 hour =80

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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/4205/2021		Date of Report : 20.03.2021	
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Gularia	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	55	55
(d)	Average ambient temperature (°C)	24	24
(e)	Time of Sampling Started (Hours)	10:29 am (16.03.2021)	10:29 am (16.03.2021)
(f)	Time of Sampling completed (Hours)	10:08 am (17.03.2021)	10:08 am (17.03.2021)
(g)	Total time of sampling (minutes)	24 hour (1409 minutes)	24 hour (1409 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.115	NA
3	Average sampling rate for gas (LPM)	0.9	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1570.812	• 23.485
	• GAS (liter)	• 704.4	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2008 Reaffirmed: 2017	µg/m ³	72.5	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	41.72	12 - 500	For 24 hour =90
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	12.14	9 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2008 Reaffirmed: 2017	µg/m ³	17.29	6 - 750	For 24 hour =80

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TEST REPORT

STACK EMISSION MONITORING AND ANALYSIS REPORT


Test Report Ref No.: ETRC/EPA/4206/2021		Date of Report : 20.03.2021
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	19.03.2021
(b)	Stack material	RCC
(c)	Height of stack from ground level	80 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 No., 60 TPH
(f)	Type of fuel used	Stoop + Bagasse
(g)	Details of APCS installed	ESP
2.	PARAMETERS	VALUES
(a)	Ambient temperature ($^{\circ}$ C)	26.0
(b)	Stack gas temperature ($^{\circ}$ C)	165.0
(c)	Stack gas velocity (m/sec)	12.45
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	63
(f)	Volume of air sampled (liters)	1008

TEST RESULT


Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing/ Limit of Detection
1	Particulate Matter (PM)	mg/Nm ³	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	76.5	2 - 1000

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TEST REPORT AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No.: ETRC/EPA/4207/2021		Date of Report : 20/03/2021
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
(a)	Date of monitoring	16/03/2021 (6:00 AM) to 17/03/2021 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Sampling Location	Within Plant Premises
(d)	Environmental Condition	Normal

TEST RESULT

Ambient Noise Level				
Sr. No.	Parameter	Unit	Results	Results
			DAY TIME (6:00 AM - 10:00 PM)	NIGHT TIME (10:00 PM - 6:00 AM)
1	Equivalent sound level	dB(A)	63.12	50.86

Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Less	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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ETRC/PM14/TES-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/4208/2021	Date of Report : 20.03.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	17.03.2021	7	Analysis Start Date	17.03.2021
4	Sample Quantity	5.0 liters	8	Analysis End Date	20.03.2021

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<6.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
6	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1984 Reaffirmed: 2017	445.2	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-N ₃ F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca. B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.2	2 - 500	75	200
9	Chloride as Cl ⁻	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	24.0	2 - 2000	250	1000
10	Fluoride as F ⁻	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.38	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-26): 1989 Reaffirmed: 2019	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	25.42	1 - 800	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	298.9	2 - 1000	200	600
10	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	272.9	5 - 5000	200	600
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/4208/2021

20	Iron as Fe:	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.15	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B APHA 23 rd Ed. 2017-3120 B (ICP-OES)	30.13	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.52	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters:							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL-Below Detection Limit

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TEST REPORT SOIL ANALYSIS

Test Report Ref No.: ETRC/EPA/4209/2021	Date of Report : 20.03.2021
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Sampling Location	Near CPU	5	Packing Condition	Sealed
2	Sample Description	Soil Sample	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	17.03.2021	7	Analysis Start Date	17.03.2021
4	Sample Quantity	1.0 Kg	8	Analysis End Date	20.03.2021


TEST REPORT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.3	1 - 14
2	Electrical Conductivity	µmho/cm	IS: 14767: 2000 Reaffirmed: 2016	292	1 - 40000
3	Moisture content	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2016	2.98	1 - 50
4	Sulphur	Kg/hec	IS: 14885: 1999 Reaffirmed: 2014	12.74	5 - 100
5	Boron as B	mg/kg	ETRC/ LABSOPS/06	BDL	4 - 100
6	Copper as Cu	mg/kg	ETRC/ LABSOPS/07	0.35	0.3 - 500
7	Zinc as Zn	mg/kg	ETRC/ LABSOPS/08	1.59	1 - 500
8	Iron as Fe	mg/kg	ETRC/ LABSOPS/09	13.02	5 - 500
9	Manganese as Mn	mg/kg	ETRC/ LABSOPS/10	8.14	5 - 500

BDL = Below Detection Limits

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- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results and/or the performance of the equipment contributing to the results.
- All disputes subject to Lucknow jurisdiction.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising made without our special permission in writing.
- Complaint register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-In-charge




Authorized Signatory
(Ritu Garg)
QM

Annexure-3

Copy of CGWA NOC





भारत सरकार
केन्द्रीय भूमि जल प्राधिकरण
जल संसाधन, नदी विकास
और गंगा संरक्षण मन्त्रालय
Government of India
Central Ground Water Authority
Ministry of Water Resources,
River Development & Ganga Rejuvenation

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/S Gularia Chini Mills Unit Distillery A Unit Of Balrampur Chini Mills Limited									
Project Address:	Village- Rudrapur Gularia, PO-nausar Gularia, Block -Bijua, Tehsil-Golagokarannath, District-Lakhimp									
Village:	Deoria	Block:	Kumbhigola							
District:	Kheri	State:	Uttar Pradesh							
Pin Code:										
Communication Address:	Village- Rudrapur Gularia, PO-nausar Gularia, Block -Bijua, Tehsil-Golagokarannath, District-Lakhimp, Kumbhigola, Kheri, Uttar Pradesh - 262901									
Address of CGWB Regional Office :	Central Ground Water Board Northern Region, Bhujal Bhavan, Sector-B. Sitapur Road Yojna, Ram Ram Bank Chauraha, Kheri, Uttar Pradesh - 226021									
1. NOC No.:	CGWA/NOC/IND/ORIG/2019/5428									
2. Application No.:	21-4/6727/UP/IND/2019			3. Category:	Industry					
4. Project Status:	New Project			5. NOC Type:	New					
6. Valid from:	28/05/2019			7. Valid up to:	27/05/2021					
8. Ground Water Abstraction Permitted:										
	Fresh Water		Saline Water		Dewatering		Total			
	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year		
	980.00	352800.00					980.00	352800.00		
9. Details of Ground Water Abstraction /Dewatering Structures										
	Total Existing No.:0					Total Proposed No.:2				
	DW	DCB	BW	TW	MP	DW	DCB	BW	TW	MP
Abstraction Structure*	0	0	0	0	0	0	0	0	2	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit										
10. Quantum of Ground Water Recharge(m ³ /year):	182754.00									
11. Number of Piezometers (Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers		Monitoring Mechanism							
			Manual		DWLR**		DWLR With Telemetry			
**DWLR - Digital Water Level Recorder	2		0		1		1			

(Compliance Conditions given overleaf)

Digitally signed by
NANDAKUMARAN P
Date: 2019.06.17 17:27:25 +05'30'

Member (CGWA)

18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

स्वच्छ सुरक्षित जल - खुशहाल कल
CONSERVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following mandatory conditions:

- 1) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 2) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 3) All new as well as existing ground water abstraction/ de-watering structures shall be fitted with digital water flow meters by the firm at its own cost immediately on completion of their construction or grant of NOC as the case may be. In case of renewal of NOCs, all existing ground water abstraction structures shall continue to be fitted with digital water flow meters. Intimation of installation of flow meters shall be sent by the proponent to the Regional Director of CGWB within 6 months of grant of NOC. Daily ground water abstraction data shall be monitored / continue to be monitored (in case of renewal) by the firm and recorded in a log book. Details of month-wise ground water abstraction shall be submitted to the Regional Director, CGWB, once every year.
- 4) In case the ground water abstraction is more than 10 m³/d, monthly water level monitoring data shall be maintained and submitted annually to the Regional Office of CGWB. Wherever groundwater withdrawal is more than 500 m³/d, the firm shall install telemetry system in one of the piezometers and share USER ID and password of the telemetry system with the Regional Director, CGWB.
- 5) In case ground water abstraction is more than 10 m³/d, ground water quality shall be monitored once in a year (during pre-monsoon period) and the report submitted to the Regional Office, CGWB. Wherever the extraction is less than 10 m³/day, ground water quality report shall be submitted by the proponent at the time of submission of self-compliance report.
- 6) Ground water augmentation measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the concerned Regional Director, CGWB.
- 7) Proof of recharge/water harvesting structures constructed (photographs of structures) shall be submitted to the concerned Regional Director, CGWB within 6 months from the date of issue of NOC. The firm shall also undertake periodic maintenance of recharge structures at its own cost.
- 8) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 9) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 10) The firm shall optimize water use through recycling/ reuse of waste water after proper treatment.
- 11) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 12) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 13) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 14) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 15) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.
- 16) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 17) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 18) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 19) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

Annexure-4

PHOTOGRAPHS



Pic :- 1 RCC Stack (Height -80mtr) alongwith Online Dust Monitoring System



Pic :- 2 Multi-effect Evaporator



Pic :- 3 Slop fired Boiler alongwith ESP (Incineration Boiler)



Pic :- 6 CPU (UASBR)



Pic :-7 RO Plant



Pic :- 8 Aerial View of CPU/ERP Plant



Pic-8 Mass Flow Meter Inlet/Outlet Of MEE Plant



Pic-9 Two Nos. Of Web Camera at Spent wash Storage Lagoon & MEE/Incineration Area



Pic -Green Belt at CPU Area



Pic-Green Belt at fermentation area



Pic-Green Belt at Distillation Area



Pic-12 Green Belt at spent wash Storage area



Pic-12 Green Belt at spent wash Storage area



Pic-13 Green Belt at Distillation Area



Pic-14 CO₂ Plant

Annexure-5

MoEF&CC Office Memorandum

F.No.22-65/2017-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj
New Delhi - 110003
e-mail: sharath.kr@gov.in

Dated: 30th September, 2020

Office Memorandum

Sub: Deliberation on the commitments made by project proponent and requirements to address the concerned raised during the public consultation and prescribe as specific condition(s) while recommending the proposal, for prior environment clearance, in physical terms in lieu of Corporate Environment Responsibility (CER) – regarding.

This is in supersession of the OM of even number dated 1st May, 2018, regarding guidelines in respect of Corporate Environment Responsibility. Ministry is in receipt of several representations regarding imposition of certain percentage of project cost or expansion cost as Corporate Environment Responsibility. Further, the said OM was also challenged before the Hon'ble High Court of Delhi in WP(C) No. 13253/2019 in the matter of CREDAL, NCR Versus Union of India and Ors.

The matter has since been examined in the Ministry and it is hereby decided that henceforth the Expert Appraisal Committee or State Level Expert Appraisal Committee shall deliberate on the commitments made by the project proponent to address the concerns raised during the public consultation and prescribe specific condition(s) in physical terms while recommending the proposal, for grant of prior environment clearance instead of allocation of funds under Corporate Environment Responsibility.

Further, it is directed that all the activities proposed by the project proponent or prescribed by the Expert Appraisal Committee or State Level Expert Appraisal Committee, as the case may be, shall be part of the Environment Management Plan.

This issues with the approval of competent authority.


(Sharath Kumar Pallerla)
Scientist 'F'/Director (IA-Policy)

To,

1. Chairman and Member Secretary of Central Pollution Control Board

2. Chairpersons and Members of all the Expert Appraisal Committees
3. Chairpersons and Member Secretaries of all the SEIAA/SEACs
4. Chairpersons and Member Secretaries of all SPCBs/UTPCCs
5. Member Secretaries of all the Expert Appraisal Committees
6. All the officers of IA Division

Copy for information to:

1. PS to Minister for Environment, Forest and Climate Change
2. PS to MoS for Environment, Forest and Climate Change
3. PPS to Secretary (EF&CC)
4. PPS to AS(RA) / AS(RSP)
5. PPS to JS(GM) / JS(AKN)/JS(SKB)
6. Website, MoEF&CC
7. Guard File.

Amey
30/9/2020
(Sharath Kumar Pallera)
Scientist F/Director (IA-Policy)

Annexure-6

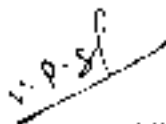
Health Record of Employees

CERTIFICATE

There is a check-up program of all Officers and Employees of Distillery division is organized by the Company in the factory campus. We have undertaken medical check-up of Officers and workers of the company and no occupational disease were found.

Per Baranpur (In. Mids 113)

J.P. Gupta



Dr. Medical Officer

Per: Attached

GULARIA CHIMI MILLS DISTILLERY

EMPLOYEE MEDICAL CHECKUP DETAILS

SR NO	NAME	FATHER'S NAME	DE SIGNATION	WEIGHT (KGS)	HEIGHT (FEET)	PULSE (PER MIN)	BP (MM HG)	SPO2 (%)	CHEST	ABDOMEN	SPRINT	URINAL	REPORT		SIGNATURE
													DATE	UNIT	
	Balkesh	Lalman	Boiler attendt	60	5.5	100	130/86	98	clear	soft		HAD	✓		Aswanto
	Chandis Sethi Singh	Kashinath Singh	CPU Chemist	60.5	6.2	82	130/86	98	clear	soft	HAD	HAD	✓		Ch...
	Pradeep Kumar Bhatnagar	Umar Chandra	CPU Chemist	75.0	5.8	85	124/70	99	clear	soft	HAD	HAD	✓		Pr...
	Dharmendra Sharma	Dharmendra Sharma	filter	56.6	5.3	81	96/60	100	clear	soft		HAD	✓		Pr...
	Satyam Bispathi	Mithales Bapatra	MEE CPT.	69.0	5.8	86	118/68	100	clear	soft		HAD	✓		Pr...
	N. V. Jyoti Yadav	Lantam Prasad Yadav	fermenter CPT.	68.3	5.7	78	100/64	100	clear	soft		HAD	✓		Pr...
	Rajeev Kumbhikar	ved Prakash Kumar	Sr Dypt man (Pro)	88.0	5.7	72	140/90	99	clear	soft	HAD	HAD	✓		Pr...
	Dharmendra Singh	Ram Niwas Pandey	Asst man (Pro)	68.0	5.9	66	110/78	96	clear	soft	HAD	HAD	✓		Pr...
	Poojit Gupta	Pranajit Kumar Gupta	Bagasse Attend.	79.0	5.6	90	124/70	98	clear	soft	HAD	HAD	✓		Pr...
	Subiraj Ray	Santana Ray	Jr Chemist	73.0	5.8	74	108/70	98	clear	soft	HAD	HAD	✓		Pr...
	Arun Kumar Singh	Ramagya Singh	Sr Dist CPT.	80.0	5.6	74	118/84	98	clear	soft	HAD	HAD	✓		Pr...
	Bhishm Yadav	Asst. Office workhouse	v.o. yard	87.0	6.1	75	140/90	98	clear	soft	HAD	HAD	✓		Pr...
	Harikaran Kanon	Kannan Srinivasan	Sr DCS Eng.	75.0	5.7	105	108/60	95	clear	soft		HAD	✓		Pr...
	Prabin Kumar Thakur	Ashwani Kumar Thakur	Sr Dist CPT.	65.3	5.5	92	108/88	98	clear	soft	HAD	HAD	✓		Pr...
	Ashwini Kumar	Pranendra Nath Tiwari	Instn. tech.	72.0	5.6	107	110/70	97	clear	soft		HAD	✓		Pr...
	Sumit Kumar Yadav	SOLIF Ram Yadav	Bagasse attendt.	55.0	5.5	71	110/80	96	clear	soft		HAD	✓		Pr...

examined by 12/12/23

MEDICAL OFFICER

GULBARGA CHINI MILLS - DISTILLERS

EMPLOYEE MEDICAL CHECKUP DETAILS

Sl. NO	NAME	FATHER'S NAME	OCCUPATION	INVESTIGATIONS										SUROKI		SIGNATURE	
				WEIGHT (KGS.)	HEIGHT (FEET)	TEMP (F/37C)	PULSE (B/MIN)	B.P. (MM HG)	HAEMOGLOBIN (G/100 ML)	HAEMATOCRIT (%)	HAEMOGLOBIN (G/100 ML)	HAEMOGLOBIN (G/100 ML)	HAEMOGLOBIN (G/100 ML)	HAEMOGLOBIN (G/100 ML)	HIT		UPSET
1	Aradhesh Kumar	Shrenani Mahim	Dr. Electrician	68	5.8	98	98	100/70	100	48	clear	Soft	NAD	NAD	✓		[Signature]
2	Santosh Kumar	Geetha Pasad	Electrician	61.9	5.2	75	75	118/80	118	97	clear	Soft	NAD	NAD	✓		[Signature]
3	Vishwakarma	Vishwakarma	Dr. Electrician	62.0	5.4	74	74	110/70	110	96	clear	Soft	NAD	NAD	✓		[Signature]
4	I. Anurag	Singh	Dr. Electrician	84.0	5.7	98	98	130/86	130	98	clear	Soft	NAD	NAD	✓		[Signature]
5	Sachin Kumar	T.K. Radhika	Dr. Eng. Electrician	58.1	5.2	78	78	120/84	120	98	clear	Soft	NAD	NAD	✓		[Signature]
6	Sandeep Chavhan	Ramesh Chavhan	D.C. Eng.	58.1	5.1	65	65	130/84	130	99	clear	Soft	NAD	NAD	✓		[Signature]
7	Hitesh Kumar	Uma Shankar Pandey	filter	59.0	5.0	70	70	110/75	110	97	clear	Soft	NAD	NAD	✓		[Signature]
8	Om Prakash Yadav	Banika Yadav	filter	59.0	5.7	77	77	100/68	100	98	clear	Soft	NAD	NAD	✓		[Signature]
9	Chandan Kumar Yadav	Ram Krishna Yadav	Dr. Techn. Tech.	63.0	5.6	101	101	108/80	108	99	clear	Soft	NAD	NAD	✓		[Signature]
10	Manoj Kumar Mishra	Prabhakar Mishra	ferrous opt.	75.0	5.5	107	107	142/80	142	97	clear	Soft	NAD	NAD	✓		[Signature]
11	Hiraj Kumar Singh	Mithalof Singh	filter	49.0	5.6	80	80	90/68	90	98	clear	Soft	NAD	NAD	✓		[Signature]
12	Manoj Kumar Singh	Manoj Kumar Singh	asst. Eng. D.C.	83.0	5.8	86	86	94/62	94	99	clear	Soft	NAD	NAD	✓		[Signature]
13	Harj Kumar Singh	Jagdish Singh	CPU Chemist	68.2	5.4	110	110	104/80	104	96	clear	Soft	NAD	NAD	✓		[Signature]
14	Anurag Singh	Sham Shree Bahadur Singh	Hydr. Dr. Chemist	65.4	5.4	75	75	120/80	120	96	clear	Soft	NAD	NAD	✓		[Signature]
15	Srikant Kumar	Harj Kumar Singh	Turbine opt.	67.1	5.2	68	68	132/86	132	99	clear	Soft	NAD	NAD	✓		[Signature]
16	Deepak Kumar	Ram Anandhar Shukla	Turbine opt.	80.0	5.5	86	86	120/82	120	98	clear	Soft	NAD	NAD	✓		[Signature]

overlinked file

MEDICAL OFFICER

EMPLOYEE MEDICAL CHECKUP DETAILS

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS										REPORT		SIGNATURE
				WEIGHT (KGS)	HEIGHT (FEET)	PULSE (PER MIN)	B.P. (mm Hg)	HAEMOGLOBIN (%)	CHLOR (CLW)	RED BLOOD CELLS	SPIND - METERS	UPPER (R/M)	FT	DATE		
1	Abid Hassan	Aftab Hassan	Man. (Boiler/PP)	89.0	6.0	86	110/74	98	clw	Soft	MAD	✓				
2	Nedlesh Kumar	Phool Singh	Boiler Attendant	58.5	5.8	86	120/86	97	clw	Soft	MAD	✓				
3	Honirankar Kishorwaha	Ramdev Kashwaha	HM	64.2	5.2	92	130/82	99	clw	Soft	MAD	✓				
4	Rakesh Pat	Raja Ram Pat	Soft	65.0	5.5	98	170/84	98	clw	Soft	MAD	✓				
5	Vinod Kumar Meena	Soni Ram	Turbine Opt	74.9	5.6	103	110/70	99	clw	Soft	MAD	✓				
6	Hiranyan Kumar Gramdal	Triverni Gramdal	fitter	67.0	5.3	86	120/84	96	clw	Soft	MAD	✓				
7	Kankaiyo Singh	Hemraj Singh	Boiler Attendant	78.0	5.10	102	120/80	99	clw	Soft	MAD	✓				
8	Mukesh Chohan Gupta	Sr. Dist. Officer	Sr. Dist. Opt.	79.0	5.1	76	130/84	99	clw	Soft	MAD	✓				
9	Anam Kumar Meena	Ram Narayan Meena	M.E Opt	75.0	5.4	88	120/84	99	clw	Soft	MAD	✓				
10	Paaveen Kumar Yadav	Sr. Asst. Mgr.	Sr. Asst. Mgr. Opt.	80.0	5.6	76	120/82	99	clw	Soft	MAD	✓				
11	Nishin Kumar Singh	Anoop Kumar Singh	Ty. Eng. Electrician	77.0	5.7	86	130/80	95	clw	Soft	MAD	✓				
12	Vipin Kumar	Budhvi Singh	Bipman	76.0	5.2	96	120/86	99	clw	Soft	MAD	✓				
13	Ranjay Kumar Yadav	Rama Chand Yadav	Electrician	61.6	5.3	78	125/80	98	clw	Soft	MAD	✓				
14	Dhirendra Kumar Dixit	Ved Prakash Dixit	Pump Opt.	67.0	6.11	76	122/82	97	clw	Soft	MAD	✓				
15	Vinod Kumar	Dhiren Singh	ferrous opt.	57.0	4.0	78	125/80	99	clw	Soft	MAD	✓				
16	Pradeep Kumar Pandey	Surya Pat Pandey	Asst. man (Prod)	80.0	5.2	76	120/84	97	clw	Soft	MAD	✓				

available for use

MEDICAL OFFICER

EMPLOYEE MEDICAL CHECKUP DETAILS

Sl. No.	NAME	FATHER'S NAME	DESCRIPTION	INVESTIGATIONS										REPORT		SIGNATURE	
				WEIGHT (kg)	HE GHT (FEET)	PULSE (PER MIN)	TEMP (C/F)	BLOOD PRESSURE	SPIRO-METER	UR VI (R/T)	ALT	UNIT					
1	Bodhi Narayan Sharma	Ram Chandra Sharma	Dr Mohan tech.	62kg	5-6	60	126/78	99	clear	Soft		NAD		✓			
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

evaluate

Annexure-7

Copy of Environmental Management Cell

BALRAMPUR CHINI MILLS LIMITED
UNIT-GULARIA: DIVISION-CHEMICAL


GCM/EC/940

Date:01-03-2021

REVISED-ENVIRONMENTAL MANAGEMENT CELL

In order to ensure compliance of the terms and conditions of Environmental Clearance granted by the Govt. of India, Ministry of Environment, Forest & Climate Change, New Delhi vide letter No.F.No.-11011/236/2018-IA-II(I) dated 05-11-2019, Point No. 9.1 (x) wherein it is mentioned that a separate Environmental Management Cell equipped with full-fledged laboratory activities shall be set up to carry out the Environmental Management and Monitoring functions, the undersigned is pleased to constitute a Revised Environmental Management Cell as under who will oversee in the matter.

Sl.	Name	Designation	Duties Performed
1.	Mr.N.K.Agarwal	Executive President	Overall Incharge of Unit
2.	Mr.Sanjay Kr.Mishra	DCM (Power Plant)	Overall Incharge of Power Plant
3.	Mr.Ajay Kr. Srivastava	Chief Manager (QC)	Incharge of Sugar E.T.P.
4.	Mr.Vinod Kr. Mishra	Manager (Prodn.), Distillery	Incharge of Distillery Process & Environment.
5.	Mr.Lakhan Lal Trivedi	Manager (HR & Admin.)	Overall Incharge of Personnel & Administration.
6.	Mr.Satendra Kr.Singh	Dy.Manager (Horticulture)	Incharge of Horticulture
7.	Mr.Niwas Kapri	Assistant Manager (Security)	Incharge of Security & Safety.
8.	Mr.Rakesh Pal	Safety Officer (M/s.Katyayan Security)	Incharge of Safety.


[N.K.AGARWAL]
EXECUTIVE PRESIDENT



BALRAMPUR CHINI MILLS LIMITED
UNIT-GULARIA, DIVISION-CHEMICAL

GCM/EHS/Distillery/ 597


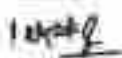
Date:01-03-2021

REVISED EHS COMMITTEE

In order to implement Environmental, Health and Safety Policy of Balrampur Chini Mills Limited, Unit-Gularia, Division-Chemical, we are constituting revised EHS Committee as follows :-

1.	Shri Vinod Kr.Mishra	Manager (Prodn.)	Committee Head
2.	Shri Sanjay Kr.Mishra	DGM (PP)	Member
3.	Shri Lakhan Lal Trivedi	Manager (HR & Admin)	Member
4.	Shri Rajneesh Chandra	Manager (Engg.)	Member
5.	Shri Abid Hassan	Manager (Boiler & PP)	Member
6.	Shri Niwas Kapri	Asstt.Manger (Security)	Member
7.	Shri Rajesh Pal	Safety Officer	Member
8.	Shri Badri Nath Sharma	Sr. Instrument Technician	Member
9.	Shri Ram Babu Sharma	Fitter	Member

The committee will meet quarterly to review all the training programmes and compliances in accordance with EHS Policy in the Distillery unit . The committee will also submit a report to the undersigned for our perusal and further advice in the matter, if required.


[N.K.AGARWAL]
EXECUTIVE PRESIDENT


Annexure-8

Copy of Environmental Clearance

F. No.J-11011/236/2018-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Section)

Indira Paryavaran Bhawan
Jor bagh Road, New Delhi - 3
Dated: 5th November, 2019

To,

M/s Gularia Chini Mills, Distillery Unit
(A unit of Balrampur Chini Mills Limited),
Village Rudrapur Gularia, Tehsil Golagokarannath,
District Lakhimpur Kheri (UP)

Sub: Setting up molasses based distillery of 160 KLD by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No IA/UP/IND2/75830/2018 dated 27th March, 2019, for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills, Distillery Unit (A unit of Balrampur Chini Mills Limited) in an area of 8.747 ha located at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP). The project also involves installation of 8 MW Co-generation power plant.

3. Land area available for the project is 8.747 ha. Industry shall develop greenbelt in an area of 2.88 ha, covering 33% of total project area. The estimated project cost is Rs 206.742 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 110 crores and the recurring cost (operation and maintenance) will be about Rs 11 crores per annum. Employment opportunity will be for 160 persons.

4. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves and Wildlife Corridors etc. within 10 km from the project site. Sharda River flows at 6.8 km in the East direction from the project location.

5. Total water requirement is estimated to be 2816 cum/day, which includes fresh water requirement of 900 cum/day, proposed to be met from ground water. The proposal in this regard has been recommended to CGWA by CGWB (Northern Region), Lucknow vide letter dated 22nd February, 2019.

Spent wash of 800 cum/day shall be treated in MEE and concentrate from MEE will be incinerated in Slag fired boiler. Other effluent of 1139 cum/day shall be treated through Condensate Polishing unit. Treated effluent shall be reused/recycled in the process/boiler/cooling tower. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement of 4.5 MW shall be met from own Co-Generation plant. Unit will install Strop-fired boiler of 60 TPH capacity. Electro static precipitator with a stack of height of 72m will be installed to control particulate emissions.

Carbon di oxide will be generated from fermentation process shall be recovered from the process and sold to beverage industry. Ash of 60.03 TPD will be mixed with farmerter sludge and utilized as manure, in the proposed granulation plant.

6. The project/activity is covered under category A of item 5 (g) 'Distilleries' of the schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal/approval at Central level in the Ministry.

7. Standard Terms of Reference for the project was issued on 24th August, 2018. Public Hearing for the proposed distillery project has been conducted by the State Pollution Control Board on 22nd February, 2019. The main issues raised during the public hearing are related to employment, health issues, waste water, water sources and odour issues, etc.

8. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meetings held on 6-8 May 2019 & 26-28 June, 2019. The project proponent and their accredited consultant M/s Ascenso Enviro Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory, in consonance with the presented ToR, and recommended the project for grant of environmental clearance.

9. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **setting up molasses based distillery of 160 KLD (Rectified Spirit/Extra Neutral alcohol/Ethanol) by M/s Gularia Chini Mills** at Village Rudrapur Gularia, Tehsil Golagokarannath, District Lakhimpur Kheri (UP), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

(a) Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board as required.

(b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(d) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(e) Coal shall not be used as fuel in boiler.

(f) Total fresh water requirement shall not exceed 960 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

(g) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.

(h) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

(i) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

(j) The company shall undertake waste minimization measures as below:-

- (i) Metering and control of quantities of active ingredients to minimize waste.
- (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
- (iii) Use of automated filling to minimize spillage.
- (iv) Use of Close Feed system into batch reactors.
- (v) Venting equipment through vapour recovery system.
- (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(k) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

(l) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.

(m) At least 5% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.

(n) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

(o) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.

(p) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

(q) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

(r) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

(s) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit

shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

(i) CO₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.

9.1 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

(i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.

(ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, in case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

(iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

(v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

(vi) The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.

(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.

(viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.

(xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.

(xiv) The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.


(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.

10. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

11. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

12. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.


(Dr. R. B. Lal)
Scientist E

Copy to:-

1. The Additional Principal Chief Conservator of Forests, MoEF&CC, Regional Office (CZ) Kendriya Bhavan, 5th Floor, Sector H, Aliganj, **Lucknow** - 226020
2. The Principal Secretary, Department of Environment, Government of Uttar Pradesh, Sachivalaya, Bapu Bhawan, Adjacent to Vidhan Sabha, **Lucknow** - 226001 (UP)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Uttar Pradesh Pollution Control Board, PICUP Bhawan, Vibhuti Khand, Gomti Nagar, **Lucknow** (UP)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi** - 3
6. Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Man Singh Road, **New Delhi**-110011
7. District Collector, **Lakhimpur Kheri** (UP)
8. Guard File/Record File/Monitoring File/Website of MoEF&CC


(Dr R B Lal)
Scientist E



**Half - Yearly Compliance Report
On
Environmental Clearance Conditions**

**(MoEF & EE Letter No. J-11011//236/201/-IA-II (I) Dated 5th November 2019)
Period: April- 2020 - September 2020**

**Submitted By:
M/s Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Distillery
P.O.-Nausar Gularia,
Distt:- Lakhimpur Khiri (U.P.)
Pin-262901**



BALRAMPUR CHINI MILLS LIMITED

UNIT-GULARIA

FACTORY ADDRESS : GULARIA CHINI MILLS, VILL. GULARIA, P.O. TRUSHARI GULARIA, DISTT. : LAKHIMPUR KHURD (U.P.) PIN-226201
PHONE : 0562324282/2400, 9721450065, 986300547 SUPERFAX : 011-43853302, E-mail: bcmf.gm@bcmf.in
CIN : L15021UP1991STPLC030196, GSTIN : 09AAAC0002201299

GCM/EC Compliance Report/ 3344

Dated: 30.12.2020

The Joint Director (Scientist)
Ministry of Environment, Forest and Climate Change
Kendriya Bhawan, 5th Floor
Sector-H, Aligarj,
Lucknow-226024

Sub: Six Monthly Environmental Compliance Report & Data Sheet

Ref.:

1. Environmental Clearance letter No. J-11011/236/2018-IA-III(I) dated 5th November-2019 issued by the Scientist E, GOI, MoEF&CC, (IA-II Section), New Delhi
2. Your letter No. File No.IV/Env/UP/Ind-172/538/2019/397 dated 18-11-2019

Dear Sir/Madam,

With reference to above, we are enclosing herewith Six Monthly Environmental Compliance Report along with Data Sheet of our Chemical Division for the period from April-2020 to September-2020 as per Environmental Clearance issued by the Scientist E, GOI, Ministry of Environment, Forest & Climate Change vide his letter No. J-11011/236/2018-IA-III(I) dated 5th November-2019 for your needful please.

Thanking you,

Yours faithfully
For Balrampur Chini Mills Ltd.
Unit-Gularia, Division-Distillery


AUTHORISED SIGNATORY

Enc: As above

BALRAMPUR CHINI MILLS LTD.: UNIT-GULARIA, DIVISION-CHEMICAL
Vill.-Gularia P.O-Nausar Gularia, Distt-Lakhimpur Kheri-262901(U.P)
Sub-Compliance of Condition stipulated in Environmental Clearance issued for 160 KLD
Molasses Based Distillery vide MOEF & CC Environmental clearance Letter
No-F.No.J-11011/236/2018-IA-II(I), Dated-5th November, 2019.

Period of Compliance-April 2020-September 2020

(A)	General Conditions	
S.No.	Conditions	Compliance Status
9 (a)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable from time to time, shall be obtained from the state Pollution control Board as required.	<p>All the Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and control Act), 1981 as applicable obtained from UPPCB, Lucknow as under :-</p> <p>1.) Consent Order (CTO) under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent vide letter No. 108580/UPPCB/ Lucknow (LAB)/ CTO/air/LUC dated 05/12/2020.</p> <p>2) Consent Order (CTO) under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) vide letter No. 108586/UPPCB/ Lucknow (LAB)/ CTO/air/Lucknow/2020 dated 05/12/2020.</p>
(b)	As already committed by the project proponent, Zero liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	<p>Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve Zero Liquid Discharge and we are maintaining the same.</p> <p>Effluent other than spent wash like spent lees, Process condensate and utilities effluent is being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP), and treated water from CPU/ERP is being used in process & cooling tower makeup water.</p>

(c)	Necessary authorization required under the hazardous and other wastes (Management and Trans boundary Movement) Rules, 2016, solid waste management rules, 2016 shall be obtained and the provisions contained in the rules shall be strictly adhered to.	We have received Authorization for Hazardous Wastes from UPPCB, Lucknow. Ref.No. 11713/UPPCB/Lucknow(UPPCBRO)/HWM/L AKHIMPUR KHIRI/2020 dt. 04/05/2020
(d)	To control source and the fugitive emission, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	The gaseous emissions from various process units is as per load/mass based standards notified by the Ministry on 19th May, 1993 and standards prescribed from time to time by CPCB and UP Pollution Control Board. Stack Emission Monitoring Report is enclosed as Annexure-1 .
(e)	Coal shall not be used as fuel in Boiler.	We are using only Slop & Bagasse in Incineration Boiler as a fuel for Steam and power generation.
(f)	Total fresh water requirements shall not exceed 960 cum/day, proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regards.	We have obtained necessary NOC from CGWA, New Delhi vide letter No. CGWA/NOC/IND/ORIG/2019/5428 which is valid upto 27-05-2021.
(g)	Hazardous chemical shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvents transfer through pumps.	We have already stored all the Hazardous chemical in tanks, tank farms, drums, carboys etc. Flame arrester is also provided on tank farm and the solvents transfer through pumps.
(h)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed-off to the TSDF.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and are producing Granular potash in our Granulation Plant.
(i)	The company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of hazardous Chemical (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.	The company has strictly complied with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the motor Vehicle Act (MVA), 1989.
(j)	The company shall undertake waste minimization as below:-	
(i)	Meeting and Control of quantities of active ingredients to minimize waste.	We are using ingredients in optimum quantity for the control of wastage.

(ii)	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Fermentation sludge & CPU sludge are mixed in Slop fired Boiler Ash (Potash rich ash) and are producing Granular potash in Granulation Plant.
(iii)	Use of automated filling to minimize spillage.	Automated filling system is already installed to minimize spillage.
(iv)	Use of close feed system into batch reactors.	Close feed system are used into batch reactors.
(v)	Venting equipment through vapour recovery system.	We have proper arrangement for vapour recovery System.
(vi)	Uses of high pressure hoses for equipment's cleaning to reduce waste water generation.	We are using High Pressure Jet Cleaning Machine for equipment's cleaning to reduce waste water generation.
(k)	The green Belt of 5-10m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road side etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State forest Department.	Provision of green belt in 33% of total project area has already been taken place and plantation is being done regularly inside factory premises as per CPCB & DFO advice. We have planted 12500 plants up to 30-09-2020.(Annexure-2)
(l)	All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.	All the Commitments made during the Public Hearing are complied.
(m)	At least 5% of the total project cost shall be allocated for Corporate Environmental Responsibility (CER) and item wise details along with time bound action plan shall be prepared and submitted to the Ministry regional Office.	Under Corporate Environmental Responsibility (CER) Industry has already allocated a separate budget for various purposes alongwith time bound action plan like, health, education, water and sanitation missions, environmental sustainability, ecological balance, protection of flora and fauna, animal welfare, agro forestry, conservation of natural resources and maintaining quality of soil, air and water and other Rural development programmes.
(n)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustics enclosures shall be provided to DG set for controlling the noise pollution.	DG sets emission limits and stack height is as per conformity with extant regulations and the CPCB guidelines. Acoustics enclosures provided to DG Set for controlling the noise pollution.
(o)	The unit shall make the arrangement for protection of possible fire hazardous during manufacturing process in material handling.	Industry has already installed well established firefighting arrangement for protection of possible fire hazardous during manufacturing process in material

	Firefighting system shall be as per the norms.	handling. All the Firefighting system is as per the norms.
(p)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	An occupational health Surveillance program is already in our system. Medical facilities have been provided by industry for proper checkup the health of employees. For this purpose industry has well equipped hospital inside the factory Campus for regular monitoring of the employee's health and medical records of each employee are also maintained.
(q)	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.	Industry has already earmarked adequate space inside the plant premises for parking of vehicles for raw materials and finished products.
(r)	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	We have provided MS tanks for storage of raw material i.e. Molasses to prevent dust pollution and other fugitive emissions.
(s)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	Online monitoring system (24 X 7 Monitoring devices) has been installed at stack emission, spent wash generation & slop consumption in boiler. As this is a zero liquid discharge based unit, hence web camera has been installed as per CPCB guidelines near spent wash storage lagoon and MEE & Incineration area of Distillery.
(t)	CO2 generated from the process shall be bottled/made solid ice and sold to authorize vendors.	Work is under Progress.
S.No.	(A) Specific Conditions	Compliance Status
9.1	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) State Government and / or any other statutory authority.	Being adhered as per the stipulation made by UP Pollution Control Board and the State Government.
li	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal	No expansion or modification work has been carried out without prior approval of The Ministry of Environment, Forest and Climate Change.

	from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
lii	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concern stations are anticipated.	Ambient Air quality monitoring stations have already been set up in consideration of maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission are regularly submitted to UPPCB/CPCB and Regional Office, of MoEF&CC at Lucknow once in six months. Ambient Air Quality Monitoring Report is enclosed as Annexure-3
iv	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009 shall be complied with.	We have already complied The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No.826 (E) dated 16 th November, 2009.Ambient Air quality Report are attached as Annexure-3
V	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dEA (night time).	We have already provided noise control measures including acoustic hoods, silencers, enclosures etc. on all the noise generating sources to maintain the overall noise level in and around the plant area are within the Standards (85dBA).Noise control measures has already been planned and enclosures would be put to keep the ambient noise level below 75 dBA (day time) and 70 dBA (night time). Noise Level Monitoring Report is enclosed as Annexure-4
Vi	The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water and to utilize the same for different industrial operations within the plant.	Rain water harvesting measures are already taken for the recharge of ground water and to utilize the same for different industrial operations within the plant.
Vii	Training shall be imparted to all employees on safety and health aspects of chemicals handling Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	We have imparted training to all employees on safety and health aspects of chemicals handling Pre-employment as well as routine periodical medical examinations for all employees undertaken on regular basis.
Viii	The company shall comply with all the	All the environmental protection measures

	environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.	and safeguards recommended in EIA/EMP reports have been effectively implemented in respect of environmental management, risk mitigation measures and public hearing.
ix	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	We are already undertaking socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc. Besides this we have also organized free medical health check-up camps in nearby villages under supervision of expert Doctors.
x	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is in place and equipped with full fledge laboratory facility to carry our environmental monitoring functions. (Annexure-5) We have full-fledged Environmental Laboratory for testing and monitoring of treatment units parameters. The equipment's available in Lab are as under:- <ul style="list-style-type: none"> • Laminar Flow • BOD incubator • Centrifugal Machine • Electric Oven • Muffle Furnace • pH Meter • Conductivity Meter and TDS Meter • Electronic Weighing Machine • COD reflux unit • Turbidity meter • DO meter • Oxygen Analyzer • Multi-gas Detector

Xi	<p>The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management /pollution control measures shall not be diverted for any other purpose.</p>	<p>There is no paucity of funds for environmental pollution control measures (i.e.-Air Pollution Control, Water pollution control, Noise pollution control, Solid waste management, Environmental monitoring and Surveillance, Occupational Health Management & Green belt development) to implement the conditions stipulated by MOEF&CC as well as the State Pollution Control Board.</p>
Xii	<p>A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p>	<p>A copy of Clearance Letter already sent to all concerned in compliance of guidelines.</p>
xiii	<p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status reports shall be posted on the website of the company.</p>	<p>Six monthly compliance reports (both in hard copies as well as by e-mail) along with monitored data are submitted to the Regional Office of MoEF&CC, CPCB and UP Pollution Control Board, Lucknow .</p>
Xiv	<p>The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the</p>	<p>We have submitted the environmental statement report in Form-V to the state Pollution control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and also submitted to the Regional Office of the MoEF&CC at Lucknow.</p>

	company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional officers of MoEF&CC by e-mail.	
xv	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.	Already advertised in two local newspapers i.e. Hindustan(Barielly Edition) dated 03.12.2019 & Rashtriya Sahara (Lucknow Edition) dated. 01.12.2019. A copy of the same was already forwarded to the MoEF&CC, Regional Office, Lucknow under cover of our letter No.GCM/MoEF/3639 dated 03-12-2019.
10	The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	Environmental protection measures as stipulated are being completed with time frame. Concerted efforts are being put for implementation of all condition as directed.
11	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	We assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a clean and safe environment in an around manufacturing facility and continued our efforts for the same.
12	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a	No any appeal is lying against this Environmental Clearance with the National Green Tribunal.

	period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
12.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	Provision of Compliance of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments are also complied as directed.

We once again assure you that we are conscious to our Environmental and Social responsibilities and also committed towards creating a safe, clean & green environment in an around manufacturing facility and continued our efforts for the same.

Thanking you,

Yours faithfully,
For Belrapur Chem Mills Ltd,
Unit-Gularia, Division-Distillery


Authorized Signatory


MONITORING REPORT
PART-1
DATA SHEET

1.	Project Type : (DISTILLERY)	Production of RS/ENA/AA-160 KLPD alongwith 7.56 MW Co-generation power plant.
2.	Name of Project	M/s. Balrampur Chini Mills Ltd., Unit- Gularia, Division-Distillery, Village Rudrapur Gularia, Tehsil-Golagokarannath, District-Lakhimpur Kheri-262901(UP)
3.	Clearance letter/OM No. & Date	MoEF No.-J-11011/236/2018-IA-II(I) Date: 5 th November,2019
4.	Location District State Latitude/Longitude	Lakhimpur Kheri Uttar Pradesh Latitude 28° 13'41.32"N and Longitude 80° 38'15.47"E
5.	Address for Correspondence Address of concerned Project Incharge	Shri Vinod Kumar Mishra Manager (Production) Balrampur Chini Mills Ltd. Unit-Gularia, Division-Distillery Vill.-Rudrapur Gularia ,Post- Nausar Gularia, Tahsil- Golagokarnnath Distt- lakimpur Kheri-262901(U.P.) Ph. 8218830589, 9410651692 Email- v.mishra@bcml.in
	Name & address of Nodal Officer with Phone No./Fax Number(s)/Mobile Nos.	Shri Vinod Kumar Mishra Manager (Production) Balrampur Chini Mills Ltd. Unit-Gularia, Division-Distillery Vill.-Rudrapur Gularia ,Post- Nausar Gularia, Tahsil- Golagokarnnath Distt- lakimpur Kheri-262901(U.P.) Ph. 8218830589, 9410651692 Email- v.mishra@bcml.in
6.	Salients Features of the Project	(a) Molasses based Distillery. (b) Plant Capacity - 160 KLPD RS/ENA/AA (c) Water consumption - 6 Lit/Lit of Spirit (d) Spent wash generation - 800 KLPD (e) Waste water discharge - ZLD (f) Waste water Treatment system - Spent wash is being concentrated in MEE and then incinerated in slop fired Boiler to achieve zero discharge. Zero discharge condition is being maintained. Effluent other than spent wash like spent lees, Process condensate and utilities effluent are being treated in Condensate Polishing unit (CPU) & Effluent Recycling Plant (ERP) and treated water from CPU/ERP is being used in process & cooling tower makeup water.
(b)	of the Environmental Management Plan	Distillery is based on Zero Liquid discharge technology in which 100% spent wash is being concentrated in MEE and

		then Concentrated spent wash i.e. Slop used as a fuel and burn in Incineration Boiler.			
7.	Breakup of the Project area	Project area - 8.747 Hectare Green belt - 2.88 Hectare(33% of Project area)			
8.	Breakup of the project affected population with enumeration of those losing houses/ dwelling unit only units and agricultural land less labourers/ artisans. (a) SC/ST Adivasis (b) Others (c) Number of villages affected (d) Name and other particulars of Identified area for settlement. (e) Compensation package (f) Budget (g) Status	----- Not applicable -----			
9.	Financial details				
(a)	Project cost of originally planned subsequent revised estimated and the years of price referen.	Initially Project Cost: Rs. 208.742 Crores. Cost towards Environmental protection measures (Capital cost) :Rs.110 Crores Recurring cost towards Environmental control measures :Rs.11 crores			
(b)	Allocations made for Environment Management plans, with item wise breakup.	S.No	Description	Capital Cost (Lakhs)	Recurring Cost/annum (Lakhs)
		1.	Air Pollution control	418	52
		2.	Water Pollution Control(CPU/ERP Plant)	85	5
		3.	Solid waste management(Granulation Plant, Ash handling area)	100	2
		4.	Environmental monitoring and Management	25	2
		5.	Green belt Development	35	4
		6.	Rain water harvesting Measures & others	35	3
		7.	CO2 recovery	350	40
		8.	Miscellaneous (Online monitoring system & web camera)	52	2
		Total		1100	110
(c)	Benefit cost ratio/internal rate of	Shall be submitted as soon as possible			

	return and the year of assessment.	
(d)	Whether (c) includes the cost of environmental management as shown in (b) above.	
(e)	Actual expenditure incurred on the Environmental Management plan so far.	We have invested Rs. 110 Crores up to 30-09-2020.
10.	Forest and requirement (a) The status of approval for a diversion of forest land for forest use. (b) The status of compensatory afforestation's, if any. (c) The status of clear felling. (d) Comments on the viability & sustainability of compensatory afforestation programme in the light of actual field experience so far.	----- Not Applicable -----
11.	The status of clear felling in non-forest is.	----- Not Applicable -----
12.	Status of construction :	
(a)	Date of Commencement (actual and / or planned).	January-2020
(b)	Date of Completion (actual and/or planned)	Plant is running under consent of UPPCB.
13.	Compliance report on Environmental clearance conditions.	Enclosed herewith

For Balrampur Chini Mills Ltd.
Unit- Gularia, Division-Distillery


Authorized Signatory

-: List of Enclosed Annexures :-

Sl.No.	Particulars	Annexure No.
1	Copy of Air & Water Consent to Operate	Annexure-1
2	Photographs of MEE Plant, Incineration Boiler and CPU/ERP Plant	Annexure-2
3	Copy of Hazardous Waste authorization	Annexure-3
4	Monitoring/Testing Report	Annexure-4
5	Copy of CGWA NOC	Annexure-5
6	Photographs of Granulation Plant	Annexure-6
7	Photographs of Greenbelt	Annexure-7
8	Copy of item wise details alongwith Time bound action plan of CER	Annexure-8
9	Health Record of Employees	Annexure-9
10	Photographs of Two Nos of Web Camera and Two Nos of Flow meters.	Annexure-10
11	Copy of Environmental Management Cell	Annexure-11
12	Copy of advertisement for Environmental Clearance.	Annexure-12

Annexure 1

**Copy of Air & Water Consent
to Operate**



UTTAR PRADESH POLLUTION CONTROL BOARD
Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. - 108586/UPPCB/Lucknow(LAB)/CTO/air/LUCKNOW/2020

Dated : 05/12/2020

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
.LUCKNOW,262901
LUCKNOW

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical

Reference Application No. 9928583

Dated : 05/12/2020

1. With reference to the application for consent for emission of air pollutants from the plant of M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical. under Air Act 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board as per enclosed conditions .
2. This consent is valid for the period from 01/01/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.
This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2020.12.05 13:34:10 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar
Agarwal

Digitally signed by Pramod
Kumar Agarwal
Date: 2020.12.05 13:34:40 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. Pollution Control Board

Dated : 05/12/2020

CONDITIONS OF CONSENT

- 1(a). The details of Air pollution sources and stacks attached with Boiler

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	01nos. Slop Fired Boiler (capacity - 60 TPH)	Bagasse and slop	1	Particulate Matter	72 meter

- 1(b) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	1	Particulate Matter	150 mg/Nm3

- The equipment for air pollution control system and monitoring, as proposed by the industry and approved by the Board should be installed in their premises itself.
- Industry shall dispose the incineration boiler ash in such a manner so that there should not be any adverse impact on public health at large and on Soil, Water & Air environment.
- The modification or installation in the existing pollution control equipment shall be done only by prior approval of the Board.
- The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants shall be in accordance with the standards prescribed by the Board/MoEF& CC/or otherwise mandatory.
- Unit shall do provisions for control of fugitive emissions from process as per the norms of the Board/MOEF & CC/or otherwise mandatory.
- The unit shall submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report analysed by Board/NABL accredited laboratory shall be submitted.
- In case of closure directions under section-5 of E (P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.
- Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com.
- Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
- Industry shall abide by orders / directions issued by Hon'ble Supreme court, Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time.

The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This consent is valid for the production of 160 KLD ENA/RSA/AA using 720 TPD Molasses as main raw material and 8.0 MW co-power generation.
2. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
3. The industry shall operate and maintain properly the 60 TPH slop fired Incineration boiler and ESP as per the conditions imposed in the CTE issued by the Board for the same.
4. Online Emission Monitoring System shall be installed at the boiler stack and connected to CPCB and UPPCB server.
5. The industry shall operate and maintain the Air Pollution Control System efficiently and continuously so as to satisfy the prescribed emission standards.
6. The industry shall adhere to the ambient Air quality prescribed standards at all the time.
7. The unit shall develop green belt as per the Protocol attached with Board's office order H 16405 /220/2018/02 dated 16-2-2018, which is available on the Board's website- www.uppcb.com.
8. The Ash generated from the Slop Boiler shall be utilized for making manure and its record be sent to the Board regularly. The total ash generated shall be disposed in such a way that it should not affect the soil and the surrounding environment.
9. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
10. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.
11. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.
12. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
13. The industry shall comply with the provisions of, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
14. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .
Prmod Kumar Agarwal Digitally signed by Prmod Kumar
Agarwal
Date: 2020.12.05 13:35:22 +05'30'
Chief Environmental Officer, Circle-5, UPPCB.



UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

**Ref No. -
108580/UPPCB/Lucknow(LAB)/CTO/water/LUC
KNOW/2020**

Dated : 05/12/2020

To ,

Shri Balrampur Chini Mills Ltd Unit Gularia Division Chemical
M/s Balrampur Chini Mills Limited Unit Gularia Division Chemical
Vill.Gularia, PO-Nausar Gularia, Tehsil-Golagokarannath, Distt.Lakhimpur Kheri, Pin-
,LUCKNOW,262901
LUCKNOW

**Sub : Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974
(as amended) for discharge of effluent to M/s. Balrampur Chini Mills Limited Unit Gularia
Division Chemical**

Reference Application No :9928065

Dated :05/12/2020

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. Balrampur Chini Mills Limited Unit Gularia Division Chemical is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tant/soak pit subject to general and special conditions mentioned in the annexure ,in refrence to their foresaid application .
2. This consent is valid for the period from 01/01/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Previntion and Controt of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.12.05 13:31:01 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, UPPCB, Lucknow.

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.12.05 13:31:31 +05'30'

Chief Environmental Officer, Circle-5, UPPCB.

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.Balrampur Chini Mills Limited Unit Gularia Division Chemical vide

Consent Order No. 9928065/ Water

Dated : 05/12/2020

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of 160 KLD ENA/RSA/AA and 8.0 MW co-power generation.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge,KL/day	Treatment facility and discharge point
1	Domestic	20.0 KLD	Septic Tank
2	Industrial	960 KLD (ZLD)	ETP

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. It should be ensured that domestic effluent should not be discharged in storm water drain.
- 4(a) The domestic effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms.

Domestic Effluent		
S.No	Parameter	Standard

5. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry.
6. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under the Environment (Protection) Act, 1986.
7. The industry shall not discharge any trade effluent outside the premises and Zero Liquid Discharge (ZLD) shall be maintained all the time.
8. Molasses shall not be stored in kachcha pits.
9. If UPPCB or CPCB issues closure order against the industry, this consent shall remain suspended for the period till closure order is revoked, after which the consent will be effective again for the remaining period.
10. The unit should be operated in such a way so that there is no adverse impact on public and environment.
11. Unit must maintain on line connectivity of mass flow meters at the inlet and outlet of MEE and web cameras installed at the final outlet, MEE and Bio Compost yard and connected with server of CPCB and UPPCB.
12. The unit shall ensure deployment of qualified staff for self monitoring mechanism on 24 X7 hours basis.
13. Volume of spent wash shall be reduced to 40 % minimum and solid concentration shall be maintained minimum 30% at the outlet of MEE.
14. Unit shall identify recipient drains/rivulets and their upstream & downstream locations in consultation with UPPCB and shall carry out monthly monitoring of identified recipient drains at upstream & downstream location through recognized lab under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis by 10th of every month to CPCB and UPPCB.
15. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity at any stage shall not exceed 07 days equivalent of production in case of incineration boiler and 30 days equivalent of production in case of bio composting.
16. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.

17. Industry shall ensure to send monthly reports regarding spent wash storage and details of spent wash in each lagoon constructed in industry.
18. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This consent is valid for the production of 160 KLD ENA/RSA/AA using 720 TPD Molasses as main raw material and 8.0 MW co-power generations.
2. This consent is valid for the current products and capacity. In Case of any change in process, capacity enhancement etc. No Objection Certificate shall be obtained from the Board.
3. The industry shall ensure to operate and maintain properly the MEE and the condensate polishing unit (CPU) to ensure Zero Liquid Discharge; failing which, this consent order shall be treated as cancelled.
4. The industry shall comply with all other directions issued under the Water (Prevention and Control of Pollution) Act, 1974 stipulated by Central Pollution Control Board, New Delhi to ensure achievement of Zero Liquid Discharge positively.
5. Industry shall operate and maintain measuring devices (water/ flow meters) at required location (raw water consumption, solid separation system, feed, permeate and reject, evaporation concentration systems, feed concentrate and condensate, water reused in the process & concentrate utilized in drying system/equivalent technology) to record the water balance shortly without delay.
6. Industry shall install web cameras at each strategic location such as MEE, and CPU, spent wash storage lagoon etc. for monitoring purpose. The web cam should be connected to the server of CPCB and UPPCB.
7. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity of concentrated spent wash, at any stage shall not exceed 07 days equivalent of production.
8. Industry shall operate and maintain the effluent treatment system effectively and regularly. All the effluent treatment system shall be kept in good running condition all the time and failure (if any), shall be immediately rectified without delay otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Industry shall not discharge any treated / untreated effluent in to the river or any surface water bodies. No effluent shall be discharged outside of the factory premises in any circumstances; hence zero discharge condition shall be maintained at all the time.
9. Industry shall make proper arrangement for safe and scientific handling, storage, transportation and disposal of all solid wastes, sludge etc. generated.
10. Spent wash generation, storage shall be done as per the guidelines of CPCB.
11. Measuring system for spent wash storage shall be installed.
12. The industry shall submit ground water quality analysis report of the nearby areas on quarterly basis in coordination with UPPCB.
13. The industry shall ensure strict compliance with the conditions mentioned in the Environmental Clearance issued by MoEFF & CC.
14. The industry shall ensure strict compliance with the conditions mentioned in the NOC dated 04.12.2017 issued to it by CGWA for abstraction of ground water.
15. The unit shall submit the latest copy of Audited Balance Sheet/C.A. Certificate (Fixed Assets+ Current Assets - Current Liabilities) so that the Consent fee payable by the industry may be verified.
16. The Order issued by Hon'ble Courts/Hon'ble NGT, MoEF & CC, Central Pollution Control Board, U.P. Pollution Control Board, shall be complied with.
17. The industry shall ensure to comply with the provisions of the charter issued by CPCB on corporate responsibility for Environmental Protection.
18. The industry shall submit approved on site disaster management plan.

19. The industry shall provide copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter reading connected with CPCB server etc. on monthly basis (by 10th of every month) to CPCB/UPPCB.
20. The industry shall provided adequate arrangement for control of odour nuisance. All internal roads shall be made pucca. Industry shall maintain good housekeeping within factory premises, around effluent treatment facilities etc.
21. No waste water will be discharged outside the industry premises and zero liquid discharge shall always be maintained.
22. The industry shall ensure to keep the Bio-compost yard completely empty before the onset of rainy season.
23. The industry will strictly comply with the provisions of Hazardous and other waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
24. Analysis report from recognized laboratory for Solid concentration at inlet and outlet of MEE should be submitted to the Board within one month from the date of issue of this certificate.
25. The industry shall comply with the provisions of, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rules 2016, E- Waste (Management) Rules 2016, Solid Waste Management Rules 2016 & Hazardous and other Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
26. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will remain suspended during the closure period and after ensuring the compliance and after revocation of closure order, the CTO will automatically be effective from the date of issuance of closure order revocation, with additional conditions mentioned in the closure revocation order.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board .

Pramod Kumar Agarwal Digitally signed by Pramod Kumar Agarwal
Date: 2020.12.05 13:32:17 +05'30'
Chief Environmental Officer, Circle-5, UPPCB.

Annexure-2

Photographs of MEE Plant, Incineration Boiler and CPU/ERP Plant



Pic :- 1 RCC Stack (Height -80mtr) alongwith Online Dust Monitoring System



Pic :- 2 Multi-effect Evaporator



Pic :- 3 Slop fired Boiler alongwith ESP (Incineration Boiler)



Pic :- 4 CPU (UASBR)



Pic :-5 RO Plant



Pic :- 6 Aerial View of CPU/ERP Plant



Pic-7 Mass Flow Meter Inlet/Outlet Of MEE Plant

Annexure-3

**Copy of Hazardous Waste
authorization**



UTTAR PRADESH POLLUTION CONTROL BOARD

TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226010

Ref. No : 11713/UPPCB/Lucknow(UPPCBRO)/HWM/LAKHIMPUR KHIRI/2020 Dated: 04/05/2020

To,

M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical
VILLAGE- RUDRAPUR GULARIA, PO-NAUSAR GULARIA, BLOCK -BIJUA, TEHSIL-GOLA-GOKARANNATH, DISTRICT-LAKHIMPUR KHERI-262901 (U.P), LAKHIMPUR KHIRI, 262901

Tehsil : Gola Gokaran Nath

District : LAKHIMPUR KHIRI

Sub :- Authorisation issued under the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

1. Number of authorization and date of issue 11713 and 04/05/2020 .
2. Reference of application (No. and date) 8280049 and 17/03/2020 .
3. Mr NK AGARWAL of M/s Balarampur Chini Mills Ltd Unit Gularia Division Chemical is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, utilization, storage and disposal or any other use of hazardous or other wastes or both on the premises situated at VILL. RUDRAPUR GULARIA, NAUSAR GULARIA, LAKHIMPUR - .

Details of Authorisation

S No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing, etc.	Quantity (ton/annum)
1	Sch-1, Cat.-5.1 (Used/Waste Oil)	TSDf	9.0 MT/Annum

1. The authorization shall be valid for a period of 05/05/2024 from the date of issue of this letter .
2. The authorization is subject to the following general and specific conditions (please specify any conditions that need to be imposed over and above general conditions, if any) .

A General Conditions of Authorization -

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under .
2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Board .
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization .
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorisation .
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time .

6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and penalty .
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility .
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation .
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained .
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation .
11. The importer or exporter shall bear the cost of Import or export and mitigation of damages if any
12. An application for the renewal of an authorisation shall be made as laid down under these Rules .
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Changes or Central Pollution Control Board from time to time .
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year .

B Specific Conditions of Authorization

1. The authorization shall be valid for a period of Five Years from the date of issue, if not suspended or cancelled earlier.
2. The wastes must be safely collected in leak proof containers and shall be duly marked in a manner suitable for handling, storage and transport and the packaging shall be easily visible and be able to withstand physical conditions and climatic factors. All hazardous waste containers / bags shall be provided with a general label. The storage area should be at an isolated spot in the premises and must be fenced, covered and duly marked.
3. The authorized person/agency shall ensure that no adverse impact on the air, soil and water including groundwater takes place due to activities for which authorization has been requested. Comprehensive safety measures must be followed in handling of wastes and the staff must be properly trained.
4. It is brought to your notice that as per the order dated 14-11-2003 passed by the Hon'ble Supreme Court in W.P. (c) No. 657 of 1995, no industry covered under Hazardous and other Wastes (Management and Tran boundary Movement) Rules, 2016 shall be allowed to operate without valid authorization. It is also provided in the same orders that industries which are not complying with the conditions of authorization shall not be allowed to operate. Hence in case you fail to apply for authorization, before its expiry or fail to comply with conditions of the earlier authorization issued to you, closure order shall be issued against your industry without any further notice.
5. The applicant must file returns on prescribed Form- 4 along with a compliance report of this letter and should also maintain records on Form 3 and present it to Board's inspecting officials.

6. In case of occurrence of an accident, complete details on form must be sent to U.P. Pollution Control Board at the earliest along with details of mitigative and remedial measures taken.
7. The authorized person/agency shall not receive, collect, or store any hazardous waste from any unauthorized occupier or generator of hazardous wastes. In case any hazardous wastes is sold to any other reprocessing unit it must be ensured that such unit is fully complying with environmental requirements and has a valid authorization of the Board.
8. In no case any hazardous wastes shall be disposed off on land, in any drain or stream. All spillages of hazardous chemicals, used containers, of hazardous chemicals such as flammable corrosive, explosive and toxic nature must be safely collected and stored. Non-compatible wastes must be suitably and safely handled.
9. It is within the powers and functions of the U.P. Pollution Control Board to modify / revoke the terms and conditions of the authorization/Registration issued under the Rule – 7 of Hazardous and Other Wastes (Management and Tran boundary Movement) Rules, 2016.
10. You are directed to display on-line data/display board outside the main factory gate with regard to quantity and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises. Necessary compliance should be sent within 15 days of receipt of this letter.
11. It is the mandatory duty of the authorized person/agency to comply with the guidelines for transportation of hazardous waste in accordance with rule 18 of Hazardous and Other Waste (Management and Tran boundary Movement) Rules, 2016.
12. It should be ensured that hazardous wastes shall be properly collected and packed in HDPE bags and then temporarily stored in a lined RCC tank/pit with suitable shed.
13. An ETP sludge test report of a laboratory approved under E.P. Act shall be submitted along with compliance of this letter of this office.
14. Used oil shall be sold only to recyclers registered with U.P. Pollution Control Board. The record shall be maintained.
15. The occupier, transporter and operator of a facility shall be liable for damages caused to the environment resulting due to improper handling and disposal of hazardous waste listed in schedule 1,2, and 3 and shall be liable to pay a fine as levied by the State Pollution Control Board under the rules.
16. Details of raw material (which is Hazardous waste) and product along with quantity shall be sent within a month.
17. You shall become the member of any common TSDF for S.L.F. which has been authorized by UPPCB and send the stored hazardous wastes for final disposal to the TSDF and report back to U.P.P.C.B. with the required manifesto (document of proof) within one/three month of this letter.
18. The unit shall ensure that H.W. is regularly sent to Authorized common TSDF and shall not store

for more than 90 days in accordance with under rule 8 of HOWM Rules, 2016.

19. Emission from the Common/Captive incinerator stack shall meet the prescribed standards under Environmental Protection Act. 1986.

20. Copies of Hazardous Waste Manifest in Form-10 shall be sent regularly to UPPCB for each category of waste sent to TSDF/Incinerator.

21. This authorization/Registration is valid till the industry is having valid consent as per the provisions of Air(Prevention and Control of Pollution) Act 1981 and Water (Prevention and Control of Pollution) Act, 1974.

22. Industry shall comply the provisions of EP Act, 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended and E-waste (Management and Handling) Rules, 2016.

23. The industry shall ensure renewal of agreement from TSDF before expiry date.

24. The authorized actual user of hazardous and other wastes shall maintain records of hazardous and other wastes purchased in a passbook issued by the State Pollution Control Board along with the authorization.

(Authorized Signatory)
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:07:38 +05'30'

Pramod Kumar Agarwal

UTTAR PRADESH POLLUTION CONTROL BOARD

Copy to: To the Regional Officer, U.P.Pollution Control Board, Regional Officer, ROUPPCB,
Lucknow. for information and necessary action .

Pramod Kumar Agarwal
Digitally signed by Pramod Kumar
Agarwal
Date: 2020.05.07 15:09:58 +05'30'

CEO/EE, I/C Circle _____

Annexure-4

Monitoring/Testing Report

**SIX MONTHLY
COMPLIANCE REPORT**
(April, 2020 to September, 2020)

Ambient Air : June, 2020 & September, 2020
Stack Monitoring : June, 2020 & September, 2020
Noise Monitoring : June, 2020 & September, 2020
Ground Water : May, 2020 to September, 2020
Soil Quality : September, 2020

of

Balrampur Chini Mills Limited

(Unit: Gularia)

Distillery Division

District: Lakhimpur Kheri

Uttar Pradesh



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ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/3202/2020	Date of Report : 29.05.2020
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	21.05.2020	7	Analysis Start Date	21.05.2020
4	Sample Quantity	5.0 litre	8	Analysis End Date	26.05.2020

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1984 Reaffirmed: 2017	422.4	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500 NH ₃ N	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca, B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	44.6	2 - 900	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	36.01	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.38	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-26): 1988 Reaffirmed: 2019	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1988 Reaffirmed: 2019	BDL	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5630 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	12.36	1 - 800	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	295.0	2 - 1000	200	900
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	264.0	5 - 5000	200	600
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	1 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-4500 B + C	BDL	0.2-2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	0.05 - 10	0.05	1.5
20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3111 B	0.29	0.1 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3111 B APHA 23 rd Ed. 2017-3500 Mg, B	36.93	0.2 - 400	30	100



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Test Report Ref No.: ETRC/EPA/3202/2020

22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3111 B IS: 3025 (Part-59): 2000 Reaffirmed: 2019	BDL	0.1 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3111 B	0.53	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3111 B IS: 3025 (Part-41): 1992 Reaffirmed: 2019	BDL	0.1 - 10	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	0.1 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3112- II IS: 3025 (Part-48): 1992 Reaffirmed: 2019	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3114 B-C	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	0.1 - 10	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	> 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL-Below Detection Limit

END OF REPORT

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- Complain register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
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ETRC/PM14/TE/REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/2906/8709/2020		Date of Report : 29.06.2020	
Name /Address/Type of Industry:		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	53	53
(d)	Average ambient temperature (°C)	28	28
(e)	Time of Sampling Started (Hours)	10:19 am (23.06.2020)	10:19 am (23.06.2020)
(f)	Time of Sampling completed (Hours)	09:58 am (24.06.2020)	09:58 am (24.06.2020)
(g)	Total time of sampling (minutes)	1423	1423
2	Average sampling rate for PM (m ³ /minute)	1.11	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1579.086	• 23.705
	• GAS (liter)	• 711.3	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) - 2006 Reaffirmed: 2017	µg/m ³	81.5	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	ETRC/LABSOPA/01: 2015	µg/m ³	49.78	12 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2) 2001 Reaffirmed: 2017	µg/m ³	14.02	6 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6) 2006 Reaffirmed: 2017	µg/m ³	20.82	6 - 750	For 24 hour =80

END OF REPORT

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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TE5-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/2906/87 10/2020		Date of Report : 29.06.2020	
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Boiler House	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	53	53
(d)	Average ambient temperature (°C)	28	28
(e)	Time of Sampling Started (Hours)	10:32 am (23.06.2020)	10:32 am (23.06.2020)
(f)	Time of Sampling completed (Hours)	10:15 am (24.06.2020)	10:15 am (24.06.2020)
(g)	Total time of sampling (minutes)	1419	1419
2	Average sampling rate for PM (m ³ /minute)	1.105	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1567.995	• 23.642
	• GAS (liter)	• 709.5	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m ³	83.7	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	ETRC/LABSOPA/01: 2015	µg/m ³	50.76	12 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	13.05	6 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-5): 2006 Reaffirmed: 2017	µg/m ³	21.19	6 - 750	For 24 hour =80

END OF REPORT

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Authorized Signatory
(Sandeep Kr Verma)
Lab-In-charge




Authorized Signatory
(Ritu Garg)
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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/29008/8711/2020		Date of Report : 29.06.2020	
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Gularia	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	55	55
(d)	Average ambient temperature (°C)	29	29
(e)	Time of Sampling Started (Hours)	10:13 am (24.06.2020)	10:13 am (24.06.2020)
(f)	Time of Sampling completed (Hours)	09:55 am (25.06.2020)	09:55 am (25.06.2020)
(g)	Total time of sampling (minutes)	1413	1413
2	Average sampling rate for PM (m ³ /minute)	1.135	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1603.755	• 23.536
	• GAS (liter)	• 706.5	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m ³	75.9	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	ETRC/LABSOPA/G1: 2015	µg/m ³	45.04	12 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	11.98	6 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-5): 2006 Reaffirmed: 2017	µg/m ³	17.41	6 - 750	For 24 hour =80

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ETRC/PM14/TE-REP/FT/36

TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT


Test Report Ref No.: ETRC/2906/8712/2020		Date of Report : 29.06.2020
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)
Monitored by		ETRC, Lucknow
Sl. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	24.06.2020
(b)	Stack material	RCC
(c)	Height of stack from ground level	80 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 No. 60 TPH
(f)	Type of fuel used	Slop + Bagasse
(g)	Details of APCS installed	ESP
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	35.0
(b)	Stack gas temperature (°C)	138.0
(c)	Stack gas velocity (m/sec)	11.72
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	65
(f)	Volume of air sampled (liters)	1040

TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing/ Limit of Detection
1	Particulate Matter (PM)	mg/Nm ³	IS-11255 (Part-1): 1985 Reaffirmed 2014	85.8	2 - 1000

END OF REPORT

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TEST REPORT

AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No.: ETRC/2908/8713/2020		Date of Report : 29.08.2020
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Khari (UP)
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
(a)	Date of monitoring	24/08/2020 (6:00 AM) to 25/08/2020 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Sampling Location	Within Plant Premises
(d)	Environmental Condition	Normal

TEST RESULT

Ambient Noise Level				
Sr. No.	Parameter	Unit	Results	Results
			DAY TIME (6:00 AM - 10:00 PM)	NIGHT TIME (10:00 PM - 6:00 AM)
1	Equivalent sound level	dB(A)	62.84	50.78

Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

..... END OF REPORT.....

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 (Sandeep Kr Verma)
 Lab-Incharge




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 (Ritu Garg)
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ETRC/PM14/TEST-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/2908/8714/2020	Date of Report : 29.06.2020
Name /Address/Type of Industry	Bairampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	25.06.2020	7	Analysis Start Date	25.06.2020
4	Sample Quantity	5.0 litre	8	Analysis End Date	29.06.2020

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H*	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1984 Reaffirmed: 2017	469.0	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4600-NH ₃ F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-6540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca, B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	62.4	2 - 900	75	200
9	Chloride as Cl ⁻	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	32.0	2 - 2000	250	1000
10	Fluoride as F ⁻	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-26): 1980 Reaffirmed: 2019	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1986 Reaffirmed: 2019	1.70	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	34.16	1 - 800	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2 - 1000	200	600
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	272.0	5 - 5000	200	600
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	1 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-4500 B + C	BDL	0.2-2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	0.06 - 10	0.05	1.5
20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3111 B	0.18	0.1 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3111 B APHA 23 rd Ed. 2017-3500 Mg, B	28.18	0.2 - 400	30	100



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22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3111 B IS: 3025 (Part-5B): 2006 Reaffirmed: 2017	0.12	0.1 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3111 B	0.96	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3111 B IS: 3025 (Part-41): 1992 Reaffirmed: 2019	BDL	0.1 - 10	0.002	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	0.1 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3112-B IS: 3025 (Part-48): 1992 Reaffirmed: 2019	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	0.09 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3114 B-C	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3111 B	BDL	0.1 - 10	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/ 100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/ 100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	≤ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	


BDL=Below Detection Limit

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TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/2407/8715/2020	Date of Report : 24.07.2020
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry Self
3	Sample received date	16.07.2020	7	Analysis Start Date	16.07.2020
4	Sample Quantity	5.0 liters	8	Analysis End Date	23.07.2020

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1984 Reaffirmed: 2017	466.2	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca, B IS: 3025 (Part-10): 1991 Reaffirmed: 2016	59.2	2 - 500	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl F B	36.0	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4600 F C	0.42	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-28): 1986 Reaffirmed: 2016	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1988 Reaffirmed: 2016	BDL	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5630 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500-SO ₄ ²⁻	34.2	1 - 500	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	296.0	2 - 1000	200	600
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	280.0	5 - 5000	200	600
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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Test Report Ref No.: ETRC/2407/8715/2020

20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.19	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3900 Mg, B	32.6	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	1.08	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	ug/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

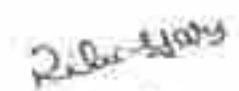
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TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/3421/2020	Date of Report : 28.08.2020
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	Industry Self
3	Sample received date	21.08.2020	7	Analysis Start Date	21.08.2020
4	Sample Quantity	5.0 liters	8	Analysis End Date	27.08.2020

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part 4): 1983 Reaffirmed: 2017	<5.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part 5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-10): 1984 Reaffirmed: 2017	452.9	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3600 Ca, B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.8	2 - 900	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	24.16	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.38	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-26): 1988 Reaffirmed: 2019	BDL	0.1-8	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500- NO ₃ IS: 3025 (Part-34): 1986 Reaffirmed: 2019	1.26	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	32.0	1 - 800	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2220 B	275.0	2 - 1000	200	600
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	268.0	5 - 6000	200	600
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	28.18	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg II	BDL	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	1.11	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	ug/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≤ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

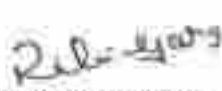
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ETRC/PM14/TES-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No.: ETRC/EPA/3574/2020		Date of Report : 24.09.2020	
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Khari (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	58	58
(d)	Average ambient temperature (°C)	25	25
(e)	Time of Sampling Started (Hours)	11:05 am (15.09.2020)	11:05 am (15.09.2020)
(f)	Time of Sampling completed (Hours)	10:46 am (16.09.2020)	10:46 am (16.09.2020)
(g)	Total time of sampling (minutes)	1402	1402
2	Average sampling rate for PM (m ³ /minute)	1.075	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1507.365	• 23.728
	• GAS (liter)	• 701.1	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	78.4	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	ETRC/LABSOPA/01-2015	µg/m ³	45.09	12 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	13.27	6 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-8): 2006 Reaffirmed: 2017	µg/m ³	21.16	6 - 750	For 24 hour =80

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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/EPA/3575/2020		Date of Report : 24.09.2020	
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Khari (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Boiler House	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	58	58
(d)	Average ambient temperature (°C)	25	25
(e)	Time of Sampling Started (Hours)	11:26 am (15.09.2020)	11:26 am (15.09.2020)
(f)	Time of Sampling completed (Hours)	11:14 am (16.09.2020)	11:14 am (16.09.2020)
(g)	Total time of sampling (minutes)	1411	1411
2	Average sampling rate for PM (m ³ /minute)	1.12	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1580.544	• 23.510
	• GAS (liter)	• 705.6	

TEST RESULT

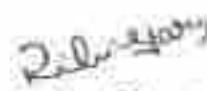
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23) : 2006 Reaffirmed: 2017	µg/m ³	79.5	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	ETRC/LABSOPA/01-2015	µg/m ³	44.66	12 - 500	For 24 hour =80
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2) : 2001 Reaffirmed: 2017	µg/m ³	12.98	6 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6) : 2006 Reaffirmed: 2017	µg/m ³	20.05	6 - 750	For 24 hour =80

END OF REPORT

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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TEST-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT


Test Report Ref No.: ETRC/EPA/3576/2020		Date of Report : 24.09.2020	
Name /Address/Type of Industry:		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Khori (UP)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Village: Gularia	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	56	56
(d)	Average ambient temperature (°C)	27	27
(e)	Time of Sampling Started (Hours)	10:59 am (16.09.2020)	10:59 am (16.09.2020)
(f)	Time of Sampling completed (Hours)	10:32 am (17.09.2020)	10:32 am (17.09.2020)
(g)	Total time of sampling (minutes)	1413	1413
2	Average sampling rate for PM (m ³ /minute)	1.18	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1867.34	• 23.538
	• GAS (liter)	• 706.5	

TEST RESULT

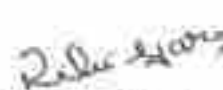
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS ; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	68.8	12 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	ETRC/LABSOPA/01-2015	µg/m ³	41.63	12 - 500	For 24 hour =80
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	11.58	6 - 1000	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-8): 2006 Reaffirmed: 2017	µg/m ³	18.36	6 - 750	For 24 hour =80

..... END OF REPORT

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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TE5-REP/FT/35

TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT


Test Report Ref No.: ETRC/EPA/3577/2020		Date of Report : 24.09.2020
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Khari (UP)
Monitored by		ETRC, Lucknow
Sl. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	15.09.2020
(b)	Stack material	RCC
(c)	Height of stack from ground level	80 mts
(d)	Source to which stack attached	Boiler
(e)	No of Source attached with capacity	01 No. 60 TPH
(f)	Type of fuel used	Slop + Bagasse
(g)	Details of APCSI installed	ESP
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	32.0
(b)	Stack gas temperature (°C)	141.0
(c)	Stack gas velocity (m/sec)	11.69
(d)	Flow rate (LPM)	16
(e)	Sampling time (minutes)	60
(f)	Volume of air sampled (liters)	1040

TEST RESULT

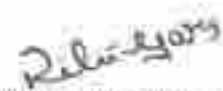
Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing/ Limit of Detection
1	Particulate Matter (PM)	mg/Nm ³	IS- 11255 (Part-1): 1985 Reaffirmed 2019	81.9	2 - 1000

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TEST REPORT

AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No.: ETRC/EPA/3578/2020		Date of Report : 24.08.2020
Name /Address/Type of Industry		Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
(a)	Date of monitoring	16/08/2020 (6:00 AM) to 17/08/2020 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Sampling Location	Within Plant Premises
(d)	Environmental Condition	Normal

TEST RESULT

Ambient Noise Level				
Sr. No.	Parameter	Unit	Results	Results
			DAY TIME (6:00 AM - 10:00 PM)	NIGHT TIME (10:00 PM - 6:00 AM)
1	Equivalent sound level	dB(A)	61.66	49.52

Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

----- END OF REPORT -----

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ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No.: ETRC/EPA/3579/2020	Date of Report : 24.09.2020
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell Within Premises	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	17.09.2020	7	Analysis Start Date	17.09.2020
4	Sample Quantity	5.0 liters	8	Analysis End Date	23.09.2020

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 100	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁷	7.6	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	APHA 23 rd Ed. 2017-2540 C IS: 3025 (Part-16): 1984 Reaffirmed: 2017	458.4	10 - 10000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5-2	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05-0.5	0.2	1.0
8	Calcium as Ca	mg/l	APHA 23 rd Ed. 2017-3500 Ca, B IS: 3025 (Part-40): 1991 Reaffirmed: 2019	56.0	2 - 900	75	200
9	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	32.8	2 - 2000	250	1000
10	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.46	0.02 - 10	1.0	1.5
11	Free Residual Chlorine	mg/l	APHA 23 rd Ed. 2017-4500-Cl IS: 3025 (Part-26): 1988 Reaffirmed: 2019	BDL	0.1-5	0.2	1.0
12	Nitrate as NO ₃	mg/l	APHA 23 rd Ed. 2017-4500-NO ₃ IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 150	45	No Relaxation
13	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5630 C	BDL	0.001-0.005	0.001	0.002
14	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	26.8	1 - 800	200	400
15	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2 - 1000	200	600
16	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	276.0	5 - 5000	200	600
17	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 100	0.03	0.2
18	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.5	1.0
19	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	1.5



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Test Report Ref No.: ETRC/EPA/3579/2020

20	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	33.0	0.05 - 10	0.3	No Relaxation
21	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3900 Mg, B	BDL	0.2 - 400	30	100
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.96	0.05 - 5	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.1 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2	0.003	No Relaxation
26	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
28	Mercury as Hg	ug/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 10	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed, 2019	Absent	Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed, 2019	Absent	± 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

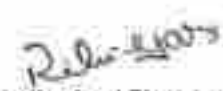
NDL-Below Detection Limit

----- END OF REPORT -----

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ETRC/PM14/TE5-REP/FT/38

TEST REPORT SOIL ANALYSIS

Test Report Ref No.: ETRC/EPA/3580/2020	Date of Report : 24.09.2020
Name /Address/Type of Industry	Balrampur Chini Mills Limited (Unit: Gularia), Distillery Division District: Lakhimpur Kheri (UP)

SAMPLE DETAILS

1	Sampling Location	Near CPU	5	Packing Condition	Sealed
2	Sample Description	Soil Sample	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	17.09.2020	7	Analysis Start Date	17.09.2020
4	Sample Quantity	1.0 Kg	8	Analysis End Date	23.09.2020


TEST REPORT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2015	7.4	1 - 14
2	Electrical Conductivity	(μ mhos/cm)	IS: 14767: 2000 Reaffirmed: 2015	286	1 - 40000
3	Moisture content	%	IS: 2720 (Part-3): 1973 Reaffirmed: 2015	3.59	1 - 50
4	Sulphur	Kg/Hec	IS: 14555: 1999 Reaffirmed: 2014	12.04	5 - 100
5	Boron as B	mg/kg	ETRC/ LABSOPS/05	BDL	4 - 100
6	Copper as Cu	mg/kg	ETRC/ LABSOPS/07	0.39	0.3 - 500
7	Zinc as Zn	mg/kg	ETRC/ LABSOPS/08	1.12	1 - 500
8	Iron as Fe	mg/kg	ETRC/ LABSOPS/09	12.86	5 - 500
9	Manganese as Mn	mg/kg	ETRC/ LABSOPS/10	7.43	5 - 500

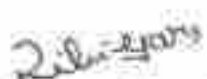
BDL = Below Detection Limit

END OF REPORT

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(Ritu Garg)
QM

Annexure-5

Copy of CGWA NOC





भारत सरकार
केन्द्रीय भूमि जल प्राधिकरण
जल संसाधन, नदी विकास
और गंगा संरक्षण मन्त्रालय
Government of India
Central Ground Water Authority
Ministry of Water Resources,
River Development & Ganga Rejuvenation

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/S Gularia Chini Mills Unit Distillery A Unit Of Balrampur Chini Mills Limited									
Project Address:	Village- Rudrapur Gularia, PO-nausar Gularia, Block -Bijua, Tehsil-Golagokarannath, District-Lakhimp									
Village:	Deoria	Block:	Kumbhigola							
District:	Kheri	State:	Uttar Pradesh							
Pin Code:										
Communication Address:	Village- Rudrapur Gularia, PO-nausar Gularia, Block -Bijua, Tehsil-Golagokarannath, District-Lakhimp, Kumbhigola, Kheri, Uttar Pradesh - 262901									
Address of CGWB Regional Office :	Central Ground Water Board Northern Region, Bhujal Bhavan, Sector-B. Sitapur Road Yojna, Ram Ram Bank Chauraha, Kheri, Uttar Pradesh - 226021									
1. NOC No.:	CGWA/NOC/IND/ORIG/2019/5428									
2. Application No.:	21-4/6727/UP/IND/2019			3. Category:	Industry					
4. Project Status:	New Project			5. NOC Type:	New					
6. Valid from:	28/05/2019			7. Valid up to:	27/05/2021					
8. Ground Water Abstraction Permitted:										
Fresh Water		Saline Water		Dewatering		Total				
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year			
980.00	352800.00					980.00	352800.00			
9. Details of Ground Water Abstraction /Dewatering Structures										
Total Existing No.:0					Total Proposed No.:2					
	DW	DCB	BW	TW	MP	DW	DCB	BW	TW	MP
Abstraction Structure*	0	0	0	0	0	0	0	0	2	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit										
10. Quantum of Ground Water Recharge(m ³ /year):	182754.00									
11. Number of Piezometers (Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers		Monitoring Mechanism							
			Manual	DWLR**	DWLR With Telemetry					
**DWLR - Digital Water Level Recorder	2		0	1	1					

(Compliance Conditions given overleaf)

Digitally signed by
NANDAKUMARAN P
Date: 2019.06.17 17:27:25 +05'30'

Member (CGWA)

18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

स्वच्छ सुरक्षित जल - खुशहाल कल
CONSERVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following mandatory conditions:

- 1) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 2) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 3) All new as well as existing ground water abstraction/ de-watering structures shall be fitted with digital water flow meters by the firm at its own cost immediately on completion of their construction or grant of NOC as the case may be. In case of renewal of NOCs, all existing ground water abstraction structures shall continue to be fitted with digital water flow meters. Intimation of installation of flow meters shall be sent by the proponent to the Regional Director of CGWB within 6 months of grant of NOC. Daily ground water abstraction data shall be monitored / continue to be monitored (in case of renewal) by the firm and recorded in a log book. Details of month-wise ground water abstraction shall be submitted to the Regional Director, CGWB, once every year.
- 4) In case the ground water abstraction is more than 10 m³/d, monthly water level monitoring data shall be maintained and submitted annually to the Regional Office of CGWB. Wherever groundwater withdrawal is more than 500 m³/d, the firm shall install telemetry system in one of the piezometers and share USER ID and password of the telemetry system with the Regional Director, CGWB.
- 5) In case ground water abstraction is more than 10 m³/d, ground water quality shall be monitored once in a year (during pre-monsoon period) and the report submitted to the Regional Office, CGWB. Wherever the extraction is less than 10 m³/day, ground water quality report shall be submitted by the proponent at the time of submission of self-compliance report.
- 6) Ground water augmentation measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the concerned Regional Director, CGWB.
- 7) Proof of recharge/water harvesting structures constructed (photographs of structures) shall be submitted to the concerned Regional Director, CGWB within 6 months from the date of issue of NOC. The firm shall also undertake periodic maintenance of recharge structures at its own cost.
- 8) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 9) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 10) The firm shall optimize water use through recycling/ reuse of waste water after proper treatment.
- 11) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 12) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 13) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 14) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 15) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.
- 16) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 17) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 18) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 19) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

Annexure-6

Photographs of Granulation Plant



Pic: RCC Stack (Height -80mtr) alongwith Online Dust Monitoring System

Annexure-7

Photographs of Greenbelt



Pic -Green Belt at CPU Area



Pic-Green Belt at fermentation area



Pic-Green Belt at Distillation Area



Pic-Green Belt at spent wash Storage area



Pic- Green Belt at spent wash Storage area



Pic-Green Belt at Distillation Area

Annexure-8

**Copy of item wise details
alongwith Time bound action
plan of CER**

BALRAMPUR CHINI MILLS LIMITED:UNIT-GULARIA

4 Year's Activities Proposal under CER (Corporate Environment Responsibility) pertaining to Gularia Distillery Project									
	Years --->	Year 1 2020-21		Year 2 2021-22		Year 3 2022-23		Year 4 2023-24	
Sl No	Activity	Village name	Amount (Rs.Lakhs)	Village name	Amount (Rs.Lakhs)	Village name	Amount (Rs. Lakhs)	Village name	Amount (Rs. Lakhs)
1	Solar infrastructure support including roof top solar plants, inverters, transformers and various other solar projects in villages	List to Villages as per Annexure-1	70.00	List to Villages as per Annexure-1	65.00	List of village will be decided after completion of project 2020-21 and 2021-2022	55.00	List of village will be decided after completion of project 2020-21 and 2021-2022	50.00
2	Plantation of trees on large scale	List of Village and School as per annexure-2	10.00	List of Village and School as per annexure-2	10.00	List of village and school will be decided after completion of project 2020-21 and 2021-2022	10.00	List of village and school will be decided after completion of project 2020-21 and 2021-2022	10.00
3	Hand Lamp Distribution for Study in School	Handlamp Distribution in 05 Villages School	5.00	Handlamp Distribution in 05 Villages School	5.00	Handlamp Distribution in 05 Villages School	5.00	Handlamp Distribution in 05 Villages School	5.00
3	Existing Water bodies rejuvenation and Charging Pit development	Bijua Block & 10 km radius-Annexure-3	20.00	Bijua Block & 10 km radius-Annexure-3	15.00	Bijua Block & 10 km radius-Annexure-3	15.00	Bijua Block & 10 km radius-Annexure-3	15.00
4	Water conservation projects (Development of new Pounds and Cleaning etc)	As per Annexure-4; One more project will be allotted by Govt as work started and project approved	55.00	Next Project will be allotted by govt after completion of project	45.00	Next Project will be allotted by govt after completion of project	35.00	Next Project will be allotted by govt after completion of project	30.00
5	Development of Bijua Sub Delivery center- Permanent Infrastructure and Hospital equipments	Bijua Block Hospital- Hospital Buidling, Toilet & Water Supply,RO, Water Cooler, Dustbin, Treatment Equipement etc	65.00	Bijua Block Hospital- Hospital Buidling, Toilet & Water Supply,RO, Water Cooler, Dustbin, Treatment Equipement etc	65.00	Bijua Block Hospital- Hospital Buidling, Toilet & Water Supply,RO, Water Cooler, Dustbin, Treatment Equipement etc	60.00	Bijua Block Hospital- Hospital Buidling, Toilet & Water Supply,RO, Water Cooler, Dustbin, Treatment Equipement etc	60.00
5	Development of Schools & Hospital's parks and other Infrastrucure supprotts like plastering, pictorial colouring , sports kit, science kit, library for smart classes	10 Km radius Schools + CHC + PHC etc As per Annexure-5	40.00	10 Km Schools + CHC+ PHC etc As per Annexure-5	40.00	10 Km Schools + CHC+ PHC etc As per Annexure-5	40.00	10 Km Schools + CHC+ PHC etc As per Annexure-5	40.00
6	Toilet facility	10 Km Radius villages- CHC Bijua	5.31	10 Km Radius villages- Bijua Block Panhayat Bhawan	5.00	10 Km Radius villages- Bijua Block Panhayat Bhawan	5.00	10 Km Radius villages- Bijua Block Panhayat Bhawan	5.00
7	Solid waste management. (Project is not success in Village area)								Not having scope of this projects
8	Biogas project (Due to Ujawala Bio Gas project is not advised by Govt authority)								Not having scope of this projects
	Total in Lacs (Rs.)		270.31	-	250.00	-	225.00	-	215.00
				-		-		-	G.Total 960.31

Annexure-9

Health Record of Employees



CERTIFICATE

The health check-up program of all Officers and Employees of Distillery Division is organised by the Company in the factory campus. We have under taken medical check-up of Officers and workers of the company and no occupational diseases were found.

For Balrampur Chini Mills Ltd.

Unit- Gularia

V. K. S.
07/03/2020

Sr. Medical Officer

Encl-List Attached.

GULARIA CHINI MILLS - DISTILLERY

ANALYTICAL MEDICAL CHEMISTRY (TABLE)

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS										REPORT		SIGNATURE
				WEIGHT (KG.)	HEIGHT (FEET)	PULSE (PER MIN.)	BP (mmHg)	R/R (PER MIN.)	CHEST	ABDOMEN	BLOOD SUGAR (RANDOM) (mg/dl)	URINE (U/V)	BLOOD GROUP	ATT	UNIT	
1	Arunesh Kumar	Suresh Kumar	Sr. Clerk	68	5-8	70	104/84	17	clear	soft	107	NAD	(+ve)	✓		
2	Satyam Kumar	Raj Bilal	CFO Chemist	70.8	5-7	70	110/70	16	clear	soft	104	NAD	(+ve)	✓		
3	Shyam Sunder	Vishay Singh	Asst. Chemist	87	6-1	80	100/80	18	clear	soft	119	NAD	(+ve)	✓		
4	Ram Kumar	Chiv. Prasad	Sr. Electrician	58	5-5	85	100/80	10	clear	soft	98	NAD	(+ve)	✓		
5	Ashok Kumar	Ramkrishna	Sr. Plant Oper.	79	5-4	65	100/80	16	clear	soft	87	NAD	(+ve)	✓		
6	Anil Kumar	Ramesh Kumar	Warehouse Clerk	57.1	5-6	66	110/70	18	clear	soft	86	NAD	(+ve)	✓		
7	Arun Kumar	Laxmi Kumar	Asst. Chemist	72	5-7	80	110/70	16	clear	soft	107	NAD	(+ve)	✓		
8	Ram Kumar	Ram Kumar	Pump Off	50	5-4	70	100/80	17	clear	soft	85	NAD	(+ve)	✓		
9	Ram Kumar	Laxmi Kumar	Fitter	62.7	5-6	74	110/72	16	clear	soft	96	NAD	(+ve)	✓		
10	Ram Kumar	Ram Kumar	Fitter	57.4	5-2	72	100/80	18	clear	soft	132	NAD	(+ve)	✓		
11	Ram Kumar	Ram Kumar	Fitter	56	5-3	66	110/70	16	clear	soft	93	NAD	(+ve)	✓		
12	Ram Kumar	Vijay Kumar	Pump Off	69.0	6-1	74	110/70	17	clear	soft	84	NAD	(+ve)	✓		
13	Ram Kumar	Ram Kumar	Microbiologist	77.3	5-7	86	110/70	20	clear	soft	94	NAD	(+ve)	✓		
14	Ram Kumar	Ram Kumar	CFO Chemist	74.6	5-10	75	100/80	18	clear	soft	93	NAD	(+ve)	✓		
15	Ram Kumar	Ram Kumar	Warehouse Officer	78	5-8	82	120/80	17	clear	soft	124	NAD	(+ve)	✓		
16	Ram Kumar	Ram Kumar	P.A.	52.7	5-3	72	100/80	20	clear	soft	88	NAD	(+ve)	✓		
17	Ram Kumar	Ram Kumar	Dyeing Assistant	61.6	5-7	80	110/74	16	clear	soft	83	NAD	(+ve)	✓		
18	Ram Kumar	Ram Kumar	Asst. S.S. DCS	82.7	5-7	80	110/70	15	clear	soft	94	NAD	(+ve)	✓		
19	Ram Kumar	Ram Kumar	Asst. S.S. DCS	57.9	5-6	44	100/70	20	clear	soft	90	NAD	(+ve)	✓		
20	Ram Kumar	Ram Kumar	MEP Offr	57.2	5-6	72	130/70	17	clear	soft	143	NAD	(+ve)	✓		

Dr. V. P. Singh
 Medical Officer
 Gularia Chini Mills Ltd.
 Unit - Gulana

GUYANA CHINA MILLS - DISTILLERY

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS										REPORT		SIGNATURE
				WEIGHT (KG)	HEIGHT (FEET)	PULSE (PER MIN)	BP (MMHG)	R/R (PER MIN)	CHEST	ABDOMEN	BLOOD SUGAR RANDOM (MG/DL)	URINE (U/W)	BLOOD GROUP	HT	UNIT	
1	Mr. C. R. ...	Lillian ...	Man. Rep.	80	5-8	79	110/70	18	Clear	Soft	82	NAD	(A+)	✓		
2	Mr. J. ...	Wm. ...	Man. Rep.	125	6	80	110/70	20	Clear	Soft	93	NAD	(A+)	✓		
3	Mr. ...	...	...	70.3	5.5	85	110/70	17	Clear	Soft	85	NAD	(A+)	✓		
4	Mr. ...	...	...	65.5	5-4	90	120/80	20	Clear	Soft	96	NAD	(A+)	✓		
5	Mr. ...	...	...	47.3	5-7	66	110/70	18	Clear	Soft	78	NAD	(A+)	✓		
6	Mr. ...	...	...	61.0	5-6	79	110/70	16	Clear	Soft	85	NAD	(A+)	✓		
7	Mr. ...	R. K. ...	...	70.4	5-6	88	110/70	18	Clear	Soft	93	NAD	(A+)	✓		
8	Mr. ...	...	...	79.5	5-10	78	130/80	17	Clear	Soft	82	NAD	(A+)	✓		
9	Mr. ...	...	...	57.5	5-2	64	100/60	20	Clear	Soft	79	NAD	(A+)	✓		
10	Mr. ...	...	...	68.2	5-2	90	110/70	16	Clear	Soft	202	NAD	(A+)	✓		
11	Mr. ...	...	...	70	5-6	86	110/70	18	Clear	Soft	118	NAD	(A+)	✓		
12	Mr. ...	...	...	70.7	5-7	70	120/80	17	Clear	Soft	70	NAD	(A+)	✓		
13	Mr. ...	...	...	69.7	5-8	74	110/80	17	Clear	Soft	87	NAD	(A+)	✓		
14	Mr. ...	...	...	68	5-10	83	110/80	17	Clear	Soft	86	NAD	(A+)	✓		
15	Mr. ...	...	...	66.1	5-9	80	110/80	20	Clear	Soft	82	NAD	(A+)	✓		
16	Mr. ...	...	...	60	5-5	86	100/70	18	Clear	Soft	142	NAD	(A+)	✓		
17	Mr. ...	...	...	70.5	5-3	88	110/70	16	Clear	Soft	124	NAD	(A+)	✓		
18	Mr. ...	...	...	54.8	5-3	90	120/70	18	Clear	Soft	134	NAD	(A+)	✓		
19	Mr. ...	...	...	77.3	5-5	74	110/70	18	Clear	Soft	72	NAD	(A+)	✓		
20	Mr. ...	...	...	69.1	5-8	77	110/80	17	Clear	Soft	64	NAD	(A+)	✓		

Dr. V. P. Singh
 Medical Officer
 Guyana China Mills Ltd.
 Unit - Guyana

SAHARA CHINI MILLS - DISTILLERY

SR NO	NAME	FATHER'S NAME	DESIGNATION	INVESTIGATIONS											REPORT		SIGNATURE
				WEIGHT (KGS)	HEIGHT (FEET)	PULSE (PER MIN)	BP (MMHG)	R/R (PER MIN)	CHEST	ABDOMEN	BLOOD SUGAR (RANDOM) mg/dl	URINE (H/M)	BLOOD SMOUR	HT	LEMP		
1	Pandey, Pankaj	Pandey, Dinesh	Officer	55.7	5-6	70	100/60	16	clear	soft	112	NAD	(100 mg/dl)	✓			
2	Gupta, Anand	Gupta, Prakash	Officer	74.9	6-1	74	90/70	14	clear	soft	95	NAD	(100 mg/dl)	✓			
3	Shrivastava, Anand	Kaushik, Anand	Officer	70	5-9	80	120/80	16	clear	soft	109	NAD	(100 mg/dl)	✓			
4	Shrivastava, Anand	Shrivastava, Anand	Officer	59	5-8	74	110/70	12	clear	soft	72	NAD	(100 mg/dl)	✓			
5	Shrivastava, Anand	Shrivastava, Anand	Officer	71.5	5-5	80	100/60	14	clear	soft	86	NAD	(100 mg/dl)	✓			
6	Shrivastava, Anand	Shrivastava, Anand	Officer	58	5-6	80	100/60	10	clear	soft	96	NAD	(100 mg/dl)	✓			
7	Shrivastava, Anand	Shrivastava, Anand	Officer	53.5	5-8	80	100/60	16	clear	soft	120	NAD	(100 mg/dl)	✓			
8	Shrivastava, Anand	Shrivastava, Anand	Officer	81.6	6-4	90	160/90	17	clear	soft	137	NAD	(100 mg/dl)	✓			
9	Shrivastava, Anand	Shrivastava, Anand	Officer	84.2	6	74	100/60	16	clear	soft	119	NAD	(100 mg/dl)	✓			
10	Shrivastava, Anand	Shrivastava, Anand	Officer	70.1	5-11	85	120/80	18	clear	soft	115	NAD	(100 mg/dl)	✓			
11	Shrivastava, Anand	Shrivastava, Anand	Officer	60.5	5-6	70	100/60	17	clear	soft	123	NAD	(100 mg/dl)	✓			
12	Shrivastava, Anand	Shrivastava, Anand	Officer	77.2	5-5	70	120/80	18	clear	soft	92	NAD	(100 mg/dl)	✓			
13	Shrivastava, Anand	Shrivastava, Anand	Officer	57.8	5-2	82	120/80	19	clear	soft	116	NAD	(100 mg/dl)	✓			
14	Shrivastava, Anand	Shrivastava, Anand	Officer	65.9	5-6	84	100/70	17	clear	soft	106	NAD	(100 mg/dl)	✓			
15	Shrivastava, Anand	Shrivastava, Anand	Officer	58.8	5-7	75	80/60	20	clear	soft	85	NAD	(100 mg/dl)	✓			
16	Shrivastava, Anand	Shrivastava, Anand	Officer	67.2	5-3	80	110/70	16	clear	soft	97	NAD	(100 mg/dl)	✓			
17	Shrivastava, Anand	Shrivastava, Anand	Officer	58	5-5	76	100/60	18	clear	soft	102	NAD	(100 mg/dl)	✓			
18	Shrivastava, Anand	Shrivastava, Anand	Officer	71.5	5-5	80	100/60	14	clear	soft	109	NAD	(100 mg/dl)	✓			
19	Shrivastava, Anand	Shrivastava, Anand	Officer	61.1	5-2	70	120/80	17	clear	soft	130	NAD	(100 mg/dl)	✓			
20	Shrivastava, Anand	Shrivastava, Anand	Officer	78.1	5-3	78	120/80	16	clear	soft	122	NAD	(100 mg/dl)	✓			

Dr. V. P. Singh
 Medical Officer
 Sahara Chini Mills Ltd
 Lucknow

Annexure-10

**Photographs of Two Nos. of
Web Camera and Two Nos.
of Flow meters.**



Pic- Two Nos. Of Web Camera at Spent wash Storage Lagoon & MEE/Incineration Area

Annexure-11

**Copy of Environmental
Management Cell**

BALRAMPUR CHINI MILLS LIMITED
UNIT-GULARIA: DIVISION-CHEMICAL

GCM/EC/ 707

Date: 20-03-2020

ENVIRONMENTAL MANAGEMENT CELL

In order to ensure compliance of the terms and conditions of Environmental Clearance granted by the Govt. of India, Ministry of Environment, Forest & Climate Change, New Delhi vide letter No.F.No.J-11011/236/2018-IA-II(I) dated 05-11-2019, Point No. 9.1 (x) wherein it is mentioned that a separate Environmental Management Cell equipped with full-fledged laboratory activities shall be set up to carry out the Environmental Management and Monitoring functions, the undersigned is pleased to constitute an Environmental Management Cell as under who will oversee in the matter.

Sl.	Name	Designation	Duties Performed
1.	Mr.N.K.Agarwal	Executive President	Overall Incharge of Unit
2.	Mr.Arvind Kr. Saxena	DGM (Power Plant)	Overall Incharge of Power Plant
3.	Mr.Sudhir Kr.Singh	Manager (Environment)	Overall Incharge of Environment
4.	Mr.Ajay Kr. Srivastava	Chief Manager (QC)	Incharge of Sugar E.T.P.
5.	Mr.Vinod Kr. Mishra	Manager (Prodn.), Distillery	Incharge of Distillery Process
6.	Mr.Lakhan Lal Trivedi	Manager (HR & Admin.)	Incharge of Personnel & Administration.
7.	Mr.Satendra Kr.Singh	Dy.Manager (Horticulture)	Incharge of Horticulture
8.	Mr.Niwas Kapri	Assistant Manager (Security)	Incharge of Security & Safety)
9.	Mr.Rakesh Pal	Safety Officer (M/s.Katyayan Security)	Incharge of Safety .


[N.K.AGARWAL]
EXECUTIVE PRESIDENT

Annexure-12

**Copy of advertisement for
Environmental Clearance.**

सार्वजनिक सूचना

आप सभी को सूचित किया जाता है कि पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय द्वारा मै. गुलरिया घौनी मिल्स, आसवनी इकाई (इकाई-धलरामपुर घौनी मिल्स लि.) ग्राम-कदपुर, गुलरिया, तहसील-गोलागीर्णनाथ जिला-सखीमपुर खीरी (उ.प्र.) को प्रस्ताव सं-1A/UP/IND2/76830/2018 दिनांक 27.03.2019 के द्वारा 160 किलो ली. प्रति दिन क्षमता की शीरा आधारित आसवनी इकाई को पर्यावरण स्वीकृत प्रदान की है।

पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय द्वारा जारी पर्यावरण स्वीकृत की प्रति विभाग की वेबसाइट <http://moef.nic.in> (<http://environmentclearance.nic.in/writersaddata/Form-1A/EC/1114201812362018GulanaLetterPDF>) एवं उ.प्र. प्रदूषण नियंत्रण बोर्ड के पास उपलब्ध है।

मै. धलरामपुर घौनी मिल्स लि.
इकाई गुलरिया टिचीजग-केमिकल
गुलरिया घौनी मिल्स
ग्राम-गुलरिया, पोस्ट-नौसर-गुलरिया
तहसील-गोलागीर्णनाथ
जिला-सखीमपुर खीरी (उ.प्र.)

राष्ट्रीय सहारा, लखनऊ (रविवार), दिनांक 01.12.2019

Public Notice

This is to inform the public that MoEF & CC (Ministry of Environment, Forest and Climate Change) has issued environmental Clearance to M/s Gularia Chini Mills Distillery Unit (A Unit of Balrampur Chini Mills Limited), Village: Rudrapur Gularia, Tehsil: Golagokarannath, District: Lakhimpur Kheri (U.P.), proposal no. IA/UP/IND2/75630/2018 dated 27th March, 2019 for Setting up Molasses based Distillery of 160 KLD.

The Environmental Clearance issued by MoEF & CC is available in the official website of MOEF & CC <http://moef.nic.in> (http://environmentclearance.nic.in/writeresaddata/Form1A/EC/111420191236_2018_Gularia_Letter_PDF) and clearance copies are available with the Uttar Pradesh Pollution Control Board.

M/s Balrampur Chini Mills Ltd., Unit- Gularia, Division- Chemical, Gularia Chini Mills, Village: Gularia, Post- Nausar Gularia, Tehsil: Golagokarannath, District: Lakhimpur Kheri (U.P.)

हिन्दुस्तान, बरेली (मंगलवार), दिनांक 03.12.2019



BALRAMPUR CHINI MILLS LIMITED

UNIT - BABHNNAN (CHEMICAL DIVISION)

Factory : BABHNNAN, P.O. BABHNNAN SUGAR FACTORY, DISTT GONDA, (U.P.) PIN - 271313
CIN : L15421WB1975PLC030118

To, PHONES : (05546) 256634, 256680, 9936797321, 22 E-mail : bcm.babhnan@bcmli.in
BNG|CD|362 Date: 26.11.2022

The Director
Ministry of Environment, Forest & Climate Change
Kendriya Bhawan, 5th Floor, Sector "H" Aliganj
Lucknow (Uttar Pradesh)

Subject: Six Monthly Compliance Report of Environmental Clearance for Expansion of Molasses Based Distillery (from 60 KLD to 100 KLD) along with Co-generation Power Plant (from 1.0 MW to 6.76 MW) at Village: Babhnikhas and Sadkarpur, Tehsil: Mankapur, District: Gonda, Uttar Pradesh by **M/s Balrampur Chini Mills Limited, Unit: Babhnan (Chemical Division)** for the period of April, 2022 to September, 2022. *Currently unit is operating at 125 KLD capacity with No Increase in Pollution Load Certificate.*

EC Ref. No.: J-11011/156/2015-IA II(I), dated December 20th, 2016.

Reg: Submission of Six-Monthly Compliance Report for Period of April, 2022 to September, 2022.

Dear Sir,


This is in connection to above mentioned subject we are hereby submitting the six-monthly compliance report of the conditions of Environmental Clearance for Expansion of Molasses Based Distillery (from 60 KLD to 100 KLD) along with Co-generation Power Plant (from 1.0 MW to 6.76 MW) at village: Babhnikhas and Sadkarpur, Tehsil: Mankapur, District: Gonda, Uttar Pradesh by **M/s Balrampur Chini Mills Limited, Unit: Babhnan (Chemical Division)** along with annexures as follows:

1. Annexure-01: Copy of CTO (Air & Water)
2. Annexure-02: Copy of No Increase in pollution load certificate
3. Annexure-03: Copy of Environmental Clearance
4. Annexure-04: Ground Water NOC
5. Annexure-05: Tubewell Log Book (April, 2022 to September, 2022)
6. Annexure-06: Flow Diagram
7. Annexure-07: Photographs of Spent wash Lagoon
8. Annexure-08: Recycle Scheme
9. Annexure-09: Environmental Monitoring report
10. Annexure-10: Ash Management Schedule
11. Annexure-11: Layout of the Fire Fighting System
12. Annexure-12: Medical records of employees April, 2022 to September, 2022
13. Annexure-13: Photographs of Green Belt
14. Annexure-14: Compliance Report of Point Mentioned in Public Hearing
15. Annexure-15: Detail of ESC Activities
16. Annexure-16: Rain harvesting system photographs
17. Annexure-17: Environment Management Cell
18. Annexure-18: Details of Environmental Management / Pollution Control Measures with Cost
19. Annexure-19 : Public Notice and information to local authority.

Requesting you to accept the hard and soft copy (CD) reports submitted for information please.

Thanking You,

Yours sincerely


Authorized Signatory

M/s Balrampur Chini Mills Limited

Unit: Babhnan (Chemical Division)

Annexure-1: Copy of CTO (Air & Water)



UTTAR PRADESH POLLUTION CONTROL BOARD

Building, No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

Ref No. -
133892/UPPCB/Faizabad(UPPCBRO)/CTO/water/GONDA/2021

Dated : 16/08/2021

To ,

Shri Ajay Dubey
M/s BALRAMPUR CHINI MILLS LTD UNIT BABHNAN CHEMICAL DIVISION
VILL - BABHNAN, TEHSIL - MANKAPUR, DISTT - GONDA (UP),GONDA,271313
GONDA

Sub : **Consent under Section 25/26 of The Water (Prevention and control of Pollution) Act, 1974 (as amended) for discharge of effluent to M/s. BALRAMPUR CHINI MILLS LTD UNIT BABHNAN CHEMICAL DIVISION**

Reference Application No :13094366

Dated :16/08/2021

1. For disposal of effluent into water body or drain or land under The Water (Prevention and control of Pollution) Act,1974 as amended (here in after referred as the act) M/s. BALRAMPUR CHINI MILLS LTD UNIT BABHNAN CHEMICAL DIVISION is hereby authorized by the board for discharge of their industrial effluent generated through ETP for irrigation/river through drain and disposal of domestic effluent through septic tank/soak pit subject to general and special conditions mentioned in the annexure ,in reference to their foresaid application .
2. This consent is valid for the period from 11/08/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 27(2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended .

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

RAKESH KUMAR
TYAGI

Digitally signed by RAKESH
KUMAR TYAGI
DN: cn=RAKESH TYAGI, o=UPPCB

Chief Environmental Officer, Circle

Enclosed : As above
(condition of consent):

Copy to: Regional Officer, U.P. Pollution Control Board, Ayodhya for information and necessary action

RAKESH KUMAR
TYAGI
Chief Environmental Officer, Circle

Digitally signed by RAKESH
KUMAR TYAGI
Date: 2021.08.17 21:42:44 +05'30'

U.P. POLLUTION CONTROL BOARD, LUCKNOW

Annexure to Consent issued to M/s.BALRAMPUR CHINI MILLS LTD UNIT BABHNAN CHEMICAL DIVISION vide

Consent Order No. 13094366/ Water

Dated : 16/08/202

CONDITIONS OF CONSENT

1. This consent is valid only for the approved production capacity of 100 KLD Rectified Spirit/Ethanol/ENA while using C Heavy molasses as raw material and 125 KLD Rectified Spirit/Ethanol/ENA while B Heavy molasses as raw material.
2. The quantity of maximum daily effluent discharge should not be more than the following :

Effluent Discharge Details			
S.No	Kind of Effluent	Maximum daily discharge, KL/day	Treatment facility and discharge point
1	Domestic	48 KLD	STP
2	Industrial	ZLD (Zero Liquid Discharge)	ETP

3. Arrangement should be made for collection of water used in process and domestic effluent separately in closed water supply system. It should be ensured that domestic effluent should not be discharged in storm water drain.
- 4(a) The domestic effluent should be treated in treatment plant so that the treated effluent should be in conformity with the following norms.

Domestic Effluent		
S.No	Parameter	Standard
1	Total Suspended Solids	As per E(P)A Rules, 1986
2	BOD	As per E(P)A Rules, 1986
3	COD	As per E(P)A Rules, 1986
4	Oil & Grease	As per E(P)A Rules, 1986
5	Quantity of Discharge	48 KLD

5. The other pollutant for which norms have not been prescribed, the same should not be more than the norms prescribed for the water used in manufacturing process of the industry.
6. The method for collecting industrial and domestic effluent and its analysis should be as per legal Indian standards and its subsequent amendments/standards prescribed under the Environment (Protection) Act, 1986.
7. The industry shall not discharge any trade effluent outside the premises and Zero Liquid Discharge (ZLD) shall be maintained all the time.
8. Molasses shall not be stored in kachcha pits.
9. If UPPCB or CPCB issues closure order against the industry, this consent shall remain suspended for the period till closure order is revoked, after which the consent will be effective again for the remaining period.
10. The unit should be operated in such a way so that there is no adverse impact on public environment.
11. Unit must maintain on line connectivity of mass flow meters at the inlet and outlet of MEE and web cameras installed at the final outlet, MEE and Bio Compost yard and connected with server of CPCB and UPPCB.
12. The unit shall ensure deployment of qualified staff for self monitoring mechanism on 24 X7 hour basis.
13. Volume of spent wash shall be reduced to 40 % minimum and solid concentration shall be maintained minimum 30% at the outlet of MEE.

14. Unit shall identify recipient drains/rivulets and their upstream & downstream locations in consultation with UPPCB and shall carry out monthly monitoring of identified recipient drains at upstream & downstream location through recognized lab under Environment (Protection) Act, 1986 and shall submit the analysis report on monthly basis by 10th of every month to CPCB and UPPCB.
15. The storage facility provided for spent wash shall be properly lined and made impermeable and the storage capacity at any stage shall not exceed 07 days equivalent of production in case of incineration boiler and 30 days equivalent of production in case of bio composting.
16. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
17. Industry shall ensure to send monthly reports regarding spent wash storage and details of spent wash in each lagoon constructed in industry.
18. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This consent is valid for production of 100 KLD Rectified Sprit/Ethanol/ENA while using C Heavy molasses as raw material and 125 KLD Rectified Sprit/Ethanol/ENA while B Heavy molasses as raw material.
2. The Earlier CTO issued by UPPCB vide office letter No. 71782/UPPCB/Faizabad(UPPCBRO)/CTO/water/ GONDA/2019 dated 13.01.2020 is stand canceled from the issuance of this CTO and this CTO will be effective.
3. The industry shall submit the validation report regarding Environmental Pollution Control Measure and Zero Liquid Discharge for B – Heavy Molasses 125 KLD Rectified Sprit/Ethanol/ENA production from any reputed Institute such as NSI, Kanpur/VSI, Pune/any IIT within 03 months after the issuance of no increase in pollution certificate dated 08.06.2021.
4. The unit shall restrict the spent wash storage capacity to 07 days only (B-Heavy molasses).
5. The unit shall achieve Zero Liquid Discharge condition.
6. The unit shall submit monthly data of following to UPPCB:
 - a. Fresh water consumption
 - b. Ethanol Production
 - c. Spent wash generation
 - d. Slop generation
 - e. Condensate generation
 - f. Feed quantity of slop into incinerator
 - g. Yeast sludge generation
 - h. Boiler ash generation
 - i. Quantity of Spent lees generation, recycle/reuse and treatment in CPU
 - j. Quantity of effluent received into CPU, details of reuse/recycle etc.
 - k. Steam generation, fuel consumption
7. The unit is not allowed any additional fresh water requirement for proposed expansion.
8. Pollutant load like BOD, COD, TDS and TSS in effluent shall not be changed during B Heavy Molasses based operation.
9. Total BOD load shall be reduced to 66120 Kg/day during B Heavy Molasses based operation as against 93600 kg/day during existing C Heavy Molasses based operation.
10. Total COD load shall be reduced to 110200 Kg/day during B Heavy Molasses based operation as against 156000 kg/day during existing C Heavy Molasses based operation.
11. Total TDS load shall be reduced to 77973 Kg/day during B Heavy Molasses based operation as against 104000 kg/day during existing C Heavy Molasses based operation.
12. Total TSS load shall be reduced to 7141 Kg/day during B Heavy Molasses based and operation against 9600 kg/day during existing C Heavy Molasses based operation.
13. Spent wash generation shall be reduced by 103 KLD during B Heavy Molasses based operation.
14. Industry shall operate and maintain the MEE systems and incineration boiler to ensure Zero Liquid Discharge, failing which, this consent shall be treated as revoked.
15. The conditions mentioned in the no increase in pollution certificate issued vide letter dated 08.06.2021 shall be applicable to this CTO.
16. The separated water from solid separation system such as condensate from evaporation concentration system such as MEE shall be reutilized in the process. If required, separated water and condensate may be treated before reutilization.
17. Industry shall operate and maintain measuring devices (water/flow meters) at required location (raw water consumption, solid separation system: feed, permeate and reject, evaporation concentration systems: feed concentrate and condensate, water reused in the process & concentrate utilized in drying system/equivalent technology) to record the water balance shortly without delay.

18. The industry shall incinerate the spent wash by incineration/slope boiler on priority basis which stored in lagoon.
19. This consent is subject to the orders of OA no. 116/2014 Meera Shukla V/s Municipal Corporation Gorakhpur and others in Hon'ble NGT New Delhi.
20. The other effluent streams apart from spent wash including spent lees, plant washings, leakages, boiler blow down, etc. shall be used in process.
21. Industry shall operate and maintain the effluent treatment system effectively and regularly. All the effluent treatment system shall be kept in good running condition all the time and failure (if any) shall be immediately rectified without delay otherwise, similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the industry, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Industry shall not discharge any treated / untreated effluent in to the river or any surface water bodies. No effluent shall be discharged outside of the factory premises in any circumstances; hence zero discharge condition shall be maintained at all the time.
22. Industry shall make proper arrangement for safe and scientific handling, storage, transportation and disposal of all solid wastes, sludge etc. generated.
23. Industry shall provide adequate arrangement for control of odour nuisance. All internal roads shall be made pucca. Industry shall maintain good housekeeping within factory premises, around effluent treatment facilities etc.
24. Industry must strictly comply all the directions issued by UPPCB, CPCB and Hon'ble NGT from time to time.
25. The industry shall install roof top rain water harvesting system and Piezometer in the factory premises.
26. The industry shall always connect the CCTV Camera with the server of CPCB and UPPCB.
27. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
28. In case industry fails to comply with the directions issued by Board in a stipulated time schedule and/or fails to comply with any of the conditions stipulated in the consent / renewal, the consent to operate (CTO) / renewal of consent issued by Uttar Pradesh Pollution Control Board, Lucknow shall stand automatically withdrawn and manufacturing operations shall be close down without further notice.
29. Maximum 07 days Spent Wash shall be stored in the Lagoon and ensured to send monthly report regarding spent wash storage and details of water level in each lagoon constructed in industry.
30. Audited Balance Sheet/ C.A. Certificate should be submitted within one month from the date of issue of this Certificate for verification of Consent fee payable.
31. Percentages of solid concentration after MEE shall be analysed by NABL accredited lab and report will be submitted within a month.
32. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will be suspended during the pendency of the closure period and after ensuring the compliance and after revocation of closure order, the CTO will be deemed to be restored subject to the effective date of revocation of the closure order, with imposed conditions thereof.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

RAKESH

Digitaly signed by 548224

KUMAR TYAGI

3/8/2023 11:42
548224

Chief Environmental Officer, Circle



UTTAR PRADESH POLLUTION CONTROL BOARD

Building. No TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226010

Phone:0522-2720828,2720831, Fax:0522-2720764, Email: info@uppcb.com, Website: www.uppcb.com

CONSENT ORDER

**Ref No. -
133876/UPPCB/Faizabad(UPPCBRO)/CTO/air/GONDA/2021**

Dated : 17/08/202

To ,

Shri Ajay Dubey
M/s BALRAMPUR CHINI MILLS LTD UNIT BABHNAN CHEMICAL DIVISION
VILL - BABHNAN, TEHSIL - MANKAPUR, DISTT - GONDA (UP),GONDA,271313
GONDA

Sub : Consent under section 21/22 of the Air (Prevention and control of Pollution) Act, 1981 (as amended) to M/s. BALRAMPUR CHINI MILLS LTD UNIT BABHNAN CHEMICAL DIVISION

Reference Application No. 13092212

Dated : 17/08/202

1. With reference to the application for consent for emission of air pollutants from the plant of M. BALRAMPUR CHINI MILLS LTD UNIT BABHNAN CHEMICAL DIVISION. under Air Act, 1981. It is being authorised for said emissions, as per the standards, in environment, by the Board (UPPCB) under the following conditions and terms and conditions as per enclosed conditions .
2. This consent is valid for the period from 11/08/2021 to 31/12/2022 .
3. In spite of the conditions and provisions mentioned in this consent order UP Pollution Control Board reserves its right and powers to reconsider/amend any or all conditions under section 21 (6) of the Air (Prevention and Control of Pollution) Act, 1981 as amended.

This consent is being issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

RAKESH KUMAR
TYAGI

Chief Environmental Officer, Circle

**Enclosed : As above
(condition of consent):**

Copy to: Regional Officer, U.P. Pollution Control Board, Ayodhya for information and necessary action

RAKESH KUMAR
TYAGI

Chief Environmental Officer, Circle

U.P. Pollution Control Board

Dated : 17/08/202

CONDITIONS OF CONSENT

1(a). The details of Air pollution sources and stacks attached with Boiler

Air Pollution Source Details					
S.No	Air Pollution Source	Type of Fuel	Stack No.	Parameters	Height
1	20 TPH Boiler	Baggasse and Slope	1	Particulate Matter	As per E(P)A Rules, 1986
2	40 TPH Boiler	Baggasse and Slope	2	Particulate Matter	As per E(P)A Rules, 1986

1(b) The emissions by various stacks into the environment should be as per the norms of the Board .

Emission Quality Details Detail			
S.No	Stack No	Parameter	Standard
1	1	Particulate Matter	As per E(P)A Rules, 1986
2	2	Particulate Matter	As per E(P)A Rules, 1986

- The equipment for air pollution control system and monitoring, as proposed by the industry and approved by the Board should be installed in their premises itself.
- Industry shall dispose the incineration boiler ash in such a manner so that there should not be an adverse impact on public health at large and on Soil, Water & Air environment.
- The modification or installation in the existing pollution control equipment shall be done only by prior approval of the Board.
- The operation of air pollution control system and maintenance be done in such a way that the quantity of pollutants shall be in accordance with the standards prescribed by the Board/MoEF, CC/or otherwise mandatory.
- Unit shall do provisions for control of fugitive emissions from process as per the norms of the Board/MOEF & CC/or otherwise mandatory.
- The unit shall submit the stack emissions monitoring report within one month from issuance of consent order along with the point wise compliance report of the consent order. Further quarterly monitoring report analysed by Board/NABL accredited laboratory shall be submitted.
- In case of closure directions under section-5 of E (P) Act, 1986 issued by CPCB, this consent will be automatically suspended during the closure period, and will be automatically reinstated with specific conditions as per CPCB revocation orders.
- Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order dated 16/02/2018, which is available on Board's Website- www.uppcb.com.
- Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
- Industry shall abide by orders / directions issued by Hon'ble Supreme court, Hon'ble High Court, Hon'ble National Green tribunal, Central Pollution Control Board and U.P Pollution Control Board for protection and safe guard of environment from time to time.

The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

Specific Conditions:

1. This consent is valid for production of 100 KLD Rectified Sprit/Ethanol/ENA while using C Heavy molasses as raw material and 125 KLD Rectified Sprit/Ethanol/ENA while B Heavy molasses as raw material.
2. The Earlier CTO issued by UPPCB vide office letter No. 71775/UPPCB/Faizabad(UPPCBRO)/CTO/air/ GONDA/2019 dated 13.01.2020 is stand canceled from the issuance of this CTO and this CTO will be effective.
3. The industry shall submit the validation report regarding Environmental Pollution Control Measure and Zero Liquid Discharge for B – Heavy Molasses 125 KLD Rectified Sprit/Ethanol/ENA production from any reputed Institute such as NSI, Kanpur/VSI, Pune/any IIT within 03 months after the issuance of no increase in pollution certificate dated 08.06.2021.
4. The unit shall restrict the spent wash storage capacity to 07 days only (B-Heavy molasses).
5. The unit shall achieve Zero Liquid Discharge condition.
6. The unit shall submit monthly data of following to UPPCB:
 - a. Fresh water consumption
 - b. Ethanol Production
 - c. Spent wash generation
 - d. Slop generation
 - e. Condensate generation
 - f. Feed quantity of slop into incinerator
 - g. Yeast sludge generation
 - h. Boiler ash generation
 - i. Quantity of Spent lees generation, recycle/reuse and treatment in CPU
 - j. Quantity of effluent received into CPU, details of reuse/recycle etc.
 - k. Steam generation, fuel consumption
7. Total generation of fly ash shall be reduced during B- heavy molasses based operation; reduction shall be approx. – 17.35 TPD.
8. There shall not be any incremental rise with respect to air pollution in view of the fact that Air Pollution Control System (ESP) shall keep particulate matter below 150 mg/Nm³.
9. Total emission load from the stack shall be reduced with reduction in Slop quantity during B Heavy Molasses operation.
10. Total PM Load shall be reduced to 161.03 Kg/day during B Heavy Molasses based operation as against 177.06 kg/day during existing C Heavy Molasses based operation.
11. Total NO₂ load shall be reduced to 77.53 Kg/day during B Heavy Molasses based operation as against 135.65 kg/day during existing C Heavy Molasses based operation.
12. Total SO₂ load shall be reduced to 76.79 Kg/day during B Heavy Molasses based operation as against 92.45 kg/day during existing C Heavy Molasses based operation.
13. The Industry will have to take Consent to Operate from UPPCB before the expiry of validity period of this consent order.
14. The industry shall submit the ash management plan within 01 month.
15. The unit shall operate and maintain the Air Pollution Control Systems efficiently and continuously so as to satisfy the prescribed emission standards.
16. The conditions mentioned in the no increase in pollution certificate issued vide letter dated 08.06.2021 shall be applicable to this CTO.
17. This consent is subject to the orders of OA no. 116/2014 Meera Shukla V/s Municipal Corporation Gorakhpur and others in Hon'ble NGT New Delhi.
18. The unit shall adhere to the ambient Air quality prescribed standards at all the times.

19. The industry shall develop green belt as per the protocol attached with Board's office order dated 16.02.2018 which is available on Board's Website.
20. The industry shall to submit stack emission monitoring report every quarter from NABL accredited laboratory.
21. The industry will strictly comply with the provisions of Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016 will be complied. Generated hazardous waste will be disposed through authorized TSDF and record will be sent to this office in Form-10.
22. Industry shall strictly comply with conditions mentioned in the charter prepared by CPCB.
23. Industry shall submit Audited Balance Sheet/C.A. Certificate for financial year 2017-18 within one month from the date of issue of this Certificate for verification of Consent fee payable.
24. The Industry shall install on line emission continuous monitoring system and shall ensure regular transmission of data of Continuous Online Emission Monitoring System for to the servers of CPCB and UPPCB. Industry shall submit regular stack monitoring report every month.
25. With regards to the use of Pet Coke/Furnace Oil as fuel, the orders passed by the Hon'ble Supreme Court in the Writ petition (Civil) no. 13029/1985 MC Mehta versus Union of India and others will be applicable.
26. Ash generated during production process must be disposed off in scientific manner as per guidelines of CPCB/MOEF. It is also mandatory that disposed ash will never affect the Health and Environment of nearby areas an residents.
27. The industry shall use at least 20% of total fuel as bio briquettes in boiler, as per availability.
28. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will suspended during the pendency of the closure period and after ensuring the compliance and after revocation of closure order, the CTO will be deemed to be restore subject to the effective date of revocation of the closure order, with imposed conditions thereof.

Issued with the permission of competent authority .

For and on behalf of U.P. Pollution Control Board

RAKESH

Digitally signed by

KUMAR TYAGI

RAKESH KUMAR TYAGI

Chief Environmental Officer, Circle

Date: 2021.06.17 21:52:11

Annexure-2: Copy of Environmental Clearance



F. No. J-11011/156/2015-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)



Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi - 110 003

Telefax: 011-24695365
E-mail: yogendra78@nic.in

Dated: 20th December, 2016

To
✓ The Managing Director
M/s. Balrampur Chini Mills Limited
Unit-Babhnan (Chemical Division)
Babhnan P.O, Gonda District
Uttar Pradesh- 271 313

Sub: Expansion of Molasses based Distillery (from 60 KLD to 100 KLD) along with Co-generation power plant (from 1 MW to 6.76 MW) at Villages Babhanikhas and Sadarakpur, Tehsil Mankapur, District Gonda, Uttar Pradesh by M/s Balrampur Chini Mills Ltd Unit: Babhnan (Chemical Division)-Environmental Clearance- reg.

Ref: Online Proposal No. IA/UP/IND2/27862/2015 dated 29th May, 2015.

Sir,

This has reference to your online proposal no. IA/UP/IND2/27862/2015 dated 29th May, 2015 along with project documents including Form 1, Terms of References, Pre-feasibility Report, EIA/EMP Report along with Public Hearing Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for expansion of molasses based distillery (from 60 KLD to 100 KLD) along with co-generation power plant (from 1 MW to 6.76 MW) at Villages Babhanikhas and Sadarakpur, Tehsil Mankapur, District Gonda, Uttar Pradesh by M/s Balrampur Chini Mills Ltd. As informed by the Project Proponent (PP) and as per the documents submitted by the PP, the total plot area is 44 acre, of which, area earmarked for greenbelt is 14.50 acre. No additional land is required for the proposed expansion. The proposed cost of project is Rs. 72 Crores. Out of which, Rs 43.70 Crores and Rs 1Crore per annum are earmarked towards capital cost and recurring cost per annum for implementation of environmental protection measures. It is informed by the PP that no eco-sensitive area is located within 10 km distance from the project site. PP has informed

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that two reserve forests are located within 10 Km radius of the project site and Bisuhi river is flowing at distance of 6.01 Km and majreti Pond is at 2.18 Km distance of the project site. The unit will operate for 330 days after expansion. Manpower requirement will be 80 nos. after the expansion.

3. The plant will have the following configuration and production capacity:

Units	Existing	Proposed Additional	Total Capacity after expansion
Distillery plant (Rectified Spirit / ENA / AA)	60 KLD	40 KLD	100 KLD
Cogeneration Power Plant (Electricity)	1 MW	5.76 MW	6.76 MW

4. All molasses based distilleries are listed at Sl.No. 5(g) (i) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

5. The project proposal was considered by the Expert Appraisal Committee (Industry - 2) in its 42nd meeting held on 16th-17th June, 2015 and 13th meeting held during 26th-27th September, 2016. The Project Proponent and the accredited Consultant M/s Ascense Enviro Private Limited, Noida, gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per Terms of References (TORs) awarded in the 42nd Meeting of the held during 16th- 17th June, 2015 for preparation of EIA-EMP report.

6. The Project Proponent has informed the EAC that the ambient air quality monitoring was carried out at 8 locations during October, 2015- December, 2015 and submitted baseline data indicates that ranges of concentrations of PM₁₀ (71.1 µg/m³ to 83.95 µg/m³), PM_{2.5} (40.45 µg/m³ to 43.65µg/m³), SO₂ (7.85µg/m³ to 14.6µg/m³) and NO_x (12.6 µg/m³ to 18.4µg/m³) respectively. Ambient Air Quality (AAQ) modeling study for point source emissions indicated that the maximum incremental ground level concentrations (GLCs) after the proposed project would be 1.50 µg/m³ and 1.77 µg/m³ with respect to PM₁₀ and SO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

7. Bagfilter along with stack of adequate height will be provided to additional bagasse/slop fired boiler (45 TPH) to control particulate emission. Fresh water requirement from ground water source will be increased from 600 m³/day to 1000 m³/day. Spent wash (800 m³/day) will be treated in Multi effect evaporator (MEE). Concentrated spentwash will be burnt in the incineration boiler. Process condensate, spent lees and effluent from floor washing will be treated in condensate polishing unit (having secondary ETP followed by RO). Treated effluent will recycled/reused as make-up water in cooling tower and floor washing. The effluent treatment plant of the existing distillery will be scrapped and switched over to the new proposed scheme i.e. evaporation followed by incineration, after installation. No effluent will be discharged outside the plant premises and 'Zero' liquid discharge norms will be followed. Sewage Treatment Plant (STP) will be

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provided for domestic waste. Ash from boiler will be sold to brick manufactures/dispose as per the notification of Ministry of Environment, Forest and Climate Change (MoEF&CC).

8. The PP has obtained environmental clearance (EC) for the existing molasses based distillery (60 KLD) vide MoEF letter no. J-11011/195/2003-IA.II(I) dated 27th February, 2004. Regional Office of MoEF&CC at Lucknow, vide letter no. IV/ENV/UP/IND-64/1666/04/1453 dated 02.03.2016 has submitted the copy of certified compliance report to the environmental conditions prescribed in the existing EC. The EAC has found compliance report to be satisfactory.

9. Public Hearing for the proposed project has been conducted by the Uttar Pradesh Pollution Control Board on 13th April, 2016. The EAC has deliberated upon the issues raised during the public hearing. The concerns were raised regarding water Pollution control measures, air pollution control measures and deforestation of area etc. The EAC noted that the issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

10. The EAC, in its 13th meeting held during 26th-27th September, 2016, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.

11. Based on the proposal and information submitted by the Project Proponent, and based on the recommendation by the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. Specific Conditions:

- i) Bagfilter shall be provided to the bagasse/slope fired boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- ii) Total fresh water requirement after expansion project from ground water shall not exceed 1000 m³/day and prior permission should be obtained from the CGWA/SGWA.
- iii) Spent wash generation from molasses based distillery shall not exceed 8 KI/KI of alcohol. The spent wash from molasses based distillery shall be treated in MEE followed by incineration boiler. Effluent from spentlees, utilities effluent and evaporator Condensate shall be treated in Condensate Polishing Unit (Secondary ETP followed by RO) and recycled/reused in process. No effluent shall be discharged outside the premises and 'Zero' discharge shall be maintained.
- iv) As proposed, existing effluent treatment plant of the existing distillery shall be scrapped and switched over to the new proposed scheme i.e. evaporation followed by incineration after installation.



- v) Spent wash shall be stored in impervious RCC lagoons with proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. The storage of spent wash shall not exceed 5 days capacity.
- vi) As proposed, no effluent from distillery shall be discharged outside the plant premises and Zero discharge shall be adopted. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.
- vii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- viii) Continuous online (24 x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
- ix) Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Lucknow and SPCB.
- x) Bagasse storage shall be done in such a way that it does not get air borne or fly around due to wind.
- xi) Boiler ash from distillery as well as sugar plant shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Proper ash management for its end use to drawn and consent to be obtained accordingly.
- xii) Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.
- xiii) Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.
- xiv) Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xv) As proposed, green belt over 14.50 acre of the total project area shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc

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Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.

- xvi) All the commitments made during the Public Hearing/Public Consultation meeting held on 13th April, 2016 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xvii) At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner. Besides, water supply, toilet facility and solar lighting, one rain water harvesting pond, etc shall be created in nearby villages as committed.

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh Pollution Control Board (UPPCB), State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.



- viii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- ix. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken involving local villages and administration.
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xii. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- xiv. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xv. The environmental statement for each financial year ending 31st March in Form-V is mandated shall be submitted to the concerned State Pollution Control Board prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- xvi. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely

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circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

- xvii. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
12. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
13. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
14. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


20.12.2016
(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Department of Environment, Government of Uttar Pradesh, 601, Bapu Bhawan, Secretariat, Vidhan Sabha Marg, Lucknow-226001.
2. Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow, Uttar Pradesh- 226020
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Uttar Pradesh Pollution Control Board, "Building No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow-226 010
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indra Paryavaran Bhavan, Jor Bhag, New Delhi- 110 003.
6. Guard File/Monitoring File/Website/Record File.


20.12.2016
(Yogendra Pal Singh)
Scientist 'D'

Annexure – 3 - Six monthly Environment Monitoring Report

Six Monthly Compliance Report of Environmental Clearance for Expansion of Molasses Based Distillery (from 60 KLD to 100 KLD) along with Co-generation Power Plant (from 1.0 MW to 6.76 MW) by M/s Balrampur Chini Mills Limited, Unit: Babhnan (Chemical Division) at Village: Babhnikhas and Sadkarpur, Tehsil: Mankapur, District: Gonda, Uttar Pradesh

EC Compliance
April -2022 to
September-2022

**SIX-MONTHLY ENVIRONMENTAL COMPLIANCE REPORT
OF STIPULATED CONDITIONS OF
ENVIRONMENTAL CLEARANCE**

(APRIL 2022 TO SEPTEMBER 2022)

FOR

**EXPANSION OF MOLASSES BASED DISTILLERY
(FROM 60 KLD TO 100 KLD) ALONG WITH CO-
GENERATION POWER PLANT (FROM 1.0 MW TO 6.76 MW)
CURRENTLY UNIT IS OPERATING AT 125 KLD**

BY

**M/s BALRAMPUR CHINI MILLS LIMITED
UNIT: BABHMAN (CHEMICAL DIVISION)
AT
VILLAGE: BABHNIKHAS AND SADKARPUR,
TEHSIL: MANKAPUR
DISTRICT: GONDA, UTTAR PRADESH**

**FOR SUBMISSION TO:
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE
CHANGE (REGIONAL OFFICE, LUCKNOW)**

**SUBMITTED BY:
M/S BALRAMPUR CHINI MILLS LIMITED
UNIT: BABHMAN (CHEMICAL DIVISION)**

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CHAPTER-1

INTRODUCTION AND PROJECT DESCRIPTION

Six monthly environmental compliance/status report is submitted for Expansion of Molasses Based Distillery (from 60 KLD to 100 KLD) along with Co-generation Power Plant (from 1.0 MW to 6.76 MW) by M/s Balrampur Chini Mills Limited, Unit: Babhnan (Chemical Division) for April 2022 to September 2022. The Project is located at Village: Babhnikhas and Sadkarpur, Tehsil: Mankapur, District: Gonda, Uttar Pradesh. Prior Environment Clearance was obtained from Ministry of Environment & Forests (MoEFCC) wide letter no.: **J-11011 / 156 / 2015 - IA II(I), dated December 20th, 2016**. Consent to operate for Water has already been obtained for the project Vide Ref No. – **133892 /UPPCB /Faizabad (UPPCBRO) /CTO/water / GONDA/ 2021, dated 16/08/2021** and Consent to operate for Air Vide Ref No. **133876/ UPPCB/ Faizabad(UPPCBRO) /CTO/air /GONDA /2021, dated 17/08/2021** for validity upto 31/12/2022. Copy of CTO is attached here as **Annexure-1**.

Currently unit is operating at 125 KLD capacity with the use of B-heavy and Sugar Syrup. Industry obtained No Objection Certificate from UPPCB for the capacity of 125 KLD is attached here as **Annexure-2**

Specific and general conditions stipulated in Environment Clearance have been complied during construction and post construction phases.

Environmental mitigation measures described in Environmental Management Plan are being implemented operation phase. **M/s Balrampur Chini Mills Limited, Unit: Babhnan** management team is fully conscious about Environmental Management and enhancing green belt development in project surrounding area.

Six monthly compliance/status reports for April, 2022 to September, 2022 for conditions stipulated in the Environmental Clearance letter issued by MoEF are enclosed as **Annexure-3**. Photographs view of implemented mitigation measures are also attached for the ready reference as Photo Documentation.

CHAPTER-2 COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE

Name of the Project: Expansion of Molasses Based Distillery (from 60 KLD to 100 KLD) along with Co-generation Power Plant (from 1.0 MW to 6.76 MW) by M/s Balrampur Chini Mills Limited, Unit: Babhnan (Chemical Division) at Village: Babhnikhas and Sadkarpur, Tehsil: Mankapur, District: Gonda, Uttar Pradesh.

Clearance Letter No: J-11011/156/2015-IA II (I), dated December 20th, 2016.

Period of Compliance Report: (April, 2022 to September, 2022)

SPECIFIC CONDITIONS

Sr. No.	Details	Action Details
1	Bag filter shall be provided to the bagasse /slope fired boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB /SPCB guidelines.	The bag filter is installed in slop fired boiler having stack height of 80 mtrs. as per CPCB guideline. Analysis report attached as Annexure – 09 .
2	Total fresh water requirement after expansion project from ground water shall not exceed 1000m ³ /day and prior permission should be obtained from the CGWA/SGWA.	The total fresh water requirement shall not exceed 1000 m ³ /day and UPGWA permission is granted vide letter No. REG039136, REG035125, having validity – 12/10/2021 to 11/10/2026. (Annexure-4) The tube well logbook for period April 2022 to September 2022 is enclosed as Annexure-5 .
3	Spent wash generation from molasses based distillery shall not exceed 8KL/KLof alcohol. The spent wash from molasses based distillery shall be treated in MEE followed by incineration boiler. Effluent from spentless, utilities effluent and evaporator condensate shall be treated in Condensate Polishing Unit (Secondary ETP followed by RO) and recycled /reused in process. No effluent shall be discharged outside the premises and "Zero" discharge shall be maintained.	The spent wash generation is 8 KL / KL alcohol and i.e. being treated through MEE followed by incineration boiler. The Effluent viz. spent less, Evaporator condensate etc. is being treated separately in CPU and achieving Zero discharge. The flow diagram is attached as Annexure-6 .
4	As proposed, existing effluent treatment plant of the existing distillery shall be scrapped and switched over to the new proposed scheme i.e.	The existing ETP is now switch over to New scheme of E.T.P. as Evaporator and Incineration Boiler.

	evaporation followed by incineration after installation.	
5	Spent wash shall be stored in imperious RCC lagoons with proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. The storage of spent wash shall not exceed 5 days capacity.	The spent wash is stored in lined RCC lagoon with storage capacity 5 days of spent wash generation. The photograph is attached as Annexure-7
6	As proposed, no effluent from distillery shall be discharged outside the plant premises and Zero discharge shall be adopted. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.	The Zero discharge condition is achieved and 3 R's scheme reduce, reuse and recycle is adopted by help of CPU and RO Plant. The Recycle scheme is attached as Annexure-8 .
7	Process effluent /any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	No process effluent, waste water will mix with storm water drain.
8	Continuous online (24x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF7CC, CPCB and SPCB.	The online stack emission monitoring system is installed. URL Address – www.nevcopcb.com User Name - bcombabnhan Password - bcm##babnhan
9	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Lucknow and SPCB.	4 nos. Piezometers is installed with the premises to check the ground water quality and ground water sample is being analyzed for pH, BOD, COD, Chloride, Sulphate and total dissolved solid. The photograph and Ground Water analysis report is enclosed as Annexure-4 .
10	Bagasse storage shall be done in such a way that it does not get air borne or fly around due to wind.	The bagasse stored properly in heap form and properly covered within shed and regular wter is sprinkle.
11	Boiler ash from distillery as well as sugar plant shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of	Boiler ash from distillery and sugar is being stored separately as per CPCB guidelines with proper sprinkling arrangement at surrounding and also it is being used as manure by farmers due to rich potash contents. Proper ash

	workers to fly ash and dust shall be avoided. Proper ash management for its end use to drawn and consent to be obtained accordingly.	management schedule is made and being followed as Annexure-10 .
12	Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provisions of foam system for fire fighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.	As per TAC guideline well develop fire fighting network with water spray is installed covering alcohol tanks and bagasse area and also implemented DMP. The layout of the firefighting system is enclosed as Annexure-11 .
13	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.	Regular health check up of all employee is going on and first aid box is available at different department and record is being maintained. The copy enclosed as Annexure-12 .
14	Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.	A proper traffic management system developed by security person to avoid congestion on the public road.
15	As proposed green belt over 14.50 acre of the total project area shall be developed within plant premises with at least 10-meter-wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	The green belt is already developed, further we have planted more tree in Bio compost area and periphery project area. The green belt plantation detail enclosed as Annexure-13 .
16	All the commitments made during the Public Hearing / Public Consultation meeting held on 13 th April, 2016 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Proper budget provision has taken to take care the cover the point raised during public hearing on dt. 13.04.2016. The compliance report of point mentioned in Public hearing is enclosed as Annexure-14 .
17	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/ details shall be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner.	The ESC is planned for 5 years and being followed for social activities in 06 villages for water supply, solar lighting, Govt School furniture and rain water harvesting etc. The detail activities in current year is enclosed along with pradhan consent as Annexure-15 .

Besides, water supply, toilet facility and solar lightning, one rain water harvesting pond, etc. shall be created in nearby villages as committed.	
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GENERAL CONDITIONS

Sr. No.	Details	Action Details
1	The project authorities must strictly adhered to the stipulations made by the Uttar Pradesh Pollution Control Board (UPPCB), State Government and any other statutory authority.	We will strictly follow the guideline by UPPCB and other statutory authorities.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	No expansion will be done without prior approval of MOEF.
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that atleast one stations is installed in the upward and downwind direction as well as where maximum ground level concentrations are anticipated.	The 3 Nos. of ambient air quality monitoring station is decided with consultation of SPCB out of which one is in upward direction and two is in downward directions where maximum ground level concentrations are anticipated.
4	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	We are following the standard of National Ambient Air quality Emission Standard issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009. The data of AAQ are within norms as per six monthly Environmental Monitoring Report.
5	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed	We are following the standard Ambient Noise Level under EPA Act 1986 Rule 1989. The data of Ambient Noise report are within norms as per six monthly Environmental Monitoring report.

	under Environment (Protection) Act, 1986 Rules, 1989 viz.75 dBA(day time) and 70dBA (Night time).	
6	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	We are harvesting the rain water as per CGWA guideline and collect it in the pond of 9500 m ³ and reusing in our process activities. The photograph attached as Annexure-16 .
7	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routing periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Safety training conducted for all employees to cover the safety and health aspect and MSDH of chemical handling.
8	The company shall also comply with all the environmental protection measures and safeguards, proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management risk mitigation measures and public hearing relating to the project shall be implemented.	We will follow all the recommendation made in EIA /EMP in respect of environmental management risk mitigation measures.
9	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	We have adopted all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities are being implemented covering local villages.
10	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	We have adopted eco-developmental measures including community welfare measures in the project area.
11	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	A separate Environmental Management Cell and full-fledged laboratory facilities is set up to carry out the Environmental Management and Monitoring functions. A Environment Management Cell is enclosed as Annexure-17 .
12	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate	We will maintain a budgetary allocation towards capital cost and recurring cost p.a. for Environmental Management / Pollution Control

	Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environmental management/pollution control measures shall not be diverted for any other purpose.	Measures. The detail is enclosed as Annexure-18.
13	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal.	The copy is provided to concerned Panchayat. The Copy is enclosed as Annexure-19.
14	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.	The six-monthly report is submitted as the compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail). A copy of Environmental Clearance and six-monthly compliance status report is also posted on the website of the company.
15	The environmental statement for each financial year ending 31 st March in Form V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Office of MoEF&CC by e-mail.	The environmental statement for each financial year ending 31 st March in Form V is being submitted to State Pollution Control Board and also posted on the website of the company.
16	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB /Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular	We have informed the public through advertisement in the local newspaper one in Hind and One in English regarding receiving the environment clearance for the project. Annexure-19.

	language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
17	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	We will inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project.
18	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	We will follow all the conditions mentioned in environmental clearance.
19	The above conditions will be enforced, inter alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and Rules.	We will follow all the conditions as per mentioned act and rules.

CHAPTER-3 DETAILS OF ENVIRONMENTAL MONITORING

3.1 AMBIENT AIR QUALITY MONITORING

3.1.1 Ambient air Quality Monitoring Stations

Ambient air quality monitoring has been carried out Near Main Gate (Station No.: 01), Near ETP Lab (Station No.: 02) and At the roof of admin office (Station No.: 03) to assess the ambient air quality. This will enable to have analytical understanding about air quality and the changes in the air environment in the study area with respect to the condition prevailing. The locations of the ambient air quality monitoring stations are given in **Table-3.1:-**

**Table-3.1:
Details of Ambient Air Quality Monitoring Stations**

Sr. No	Location Code	Location Name/Description	Environmental Setting of surrounding	Date of Monitoring
1.	AAQ-1	Near Main Gate (Station No.: 01)	Industrial	15.09.2022 to 16.09.2022
2.	AAQ-2	Near ETP Lab (Station No.: 02)	Industrial	15.09.2022 to 16.09.2022
3.	AAQ-3	At the roof of admin office (Station No.: 03)	Industrial	16.09.2022 to 17.09.2022

AAQ-1: Near Main Gate (Station No: 1)

The sampler was placed Near Main Gate and was free from any obstructions. Surroundings of the sampling site represent industrial environmental setting.

AAQ- 2: Near ETP Lab (Station No: 2)

The sampler was placed Near ETP Lab and was free from any obstructions. Surroundings of the sampling site represent industrial environmental setting.

AAQ-3: At the roof of admin office (Station No: 3)

The sampler was placed At the roof of admin office and it was also free from any obstructions. Surroundings of the sampling site represent industrial environment setting.

3.1.2 Ambient Air Quality Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Respirable Suspended Particulate Matter (PM₁₀)
- Fine Particulate Matter (PM_{2.5})

- Sulphur Dioxide (SO₂)
- Oxides of Nitrogen (NO_x)

The duration of sampling of PM₁₀, PM_{2.5}, SO₂ and NO_x was 24 hourly continuous sampling per day duration monitoring. The monitoring was conducted for one day at the location. This is to allow a comparison with the National Ambient Air Quality Standards. The air samples were analyzed as per standard methods specified by Indian Standard (IS: 5182). The techniques used for ambient air quality monitoring and minimum detectable levels are given in **Table-3.2**.

Fine Particulate Sampler instruments have been used for monitoring Particulate Matter 2.5 (PM_{2.5} i.e. <2.5 microns), and Respirable Dust Sampler with gaseous sampling attachment was used for sampling Respirable fraction (<10 microns), gaseous pollutants like SO₂, and NO_x.

Table-3.2: Techniques used for Ambient Air Quality Monitoring

Sr. No	Parameter	Technique	Range of testing /limit of detection
1.	Respirable Suspended Particulate Matter (PM ₁₀)	Respirable Dust Sampler, with cyclone separator, Gravimetric Method	5.0 - 1200
2.	Fine Particulate Matter (PM _{2.5})	Fine Particulate Sampler, Gravimetric Method	2.0 - 500
3.	Sulphur Dioxide (SO ₂)	Modified West and Gaeke	5.0 - 1050
4.	Oxides of Nitrogen (NO _x)	Jacob & Hochheiser	6.0 - 750

3.1.3 Ambient Air Quality Monitoring Results Near Main Gate (Station No: 1)

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂ and NO_x are presented in **Table 3.3**.

Table-3.3: Ambient Air Quality Monitoring Results Near Main Gate (Station No: 1)

Sr. No	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	83.9	5.0 - 1200	For 24 hour = 100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	52.72	2.0 - 500	For 24 hour = 60
3	Sulphur Dioxides (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.49	5.0 - 1050	For 24 hour = 80
4	Oxides of nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	22.05	6.0 - 750	For 24 hour = 80

3.1.4 Ambient Air Quality Monitoring Results Near ETP Lab (Station No: 2)

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂ and NO_x are presented in Table 3.4.

Table-3.4: Ambient Air Quality Monitoring Results Near ETP Lab (Station No: 2)

Sr. No	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	83.9	5.0 - 1200	For 24 hour = 100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	51.54	2.0 - 500	For 24 hour = 60
3	Sulphur Dioxides (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	13.86	5.0 - 1050	For 24 hour = 80
4	Oxides of nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	21.02	6.0 - 750	For 24 hour = 80

3.1.5 Ambient Air Quality Monitoring Results At the roof of admin office (Station No: 3)

The detailed on-site monitoring results of PM_{2.5}, PM₁₀, SO₂ and NO_x are presented in Table 3.5.

Table-3.5: Ambient Air Quality Monitoring Results At the roof of admin office (Station No: 3)

Sr. No	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	79.2	5.0 - 1200	For 24 hour = 100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	50.0	2.0 - 500	For 24 hour = 60
3	Sulphur Dioxides (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	12.76	5.0 - 1050	For 24 hour = 80
4	Oxides of nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	18.55	6.0 - 750	For 24 hour = 80

3.1.6 Discussion on Ambient Air Quality in the Study Area

The value of PM₁₀ at Ambient Air Monitoring Station No: 1, 2 & 3 are 83.9 µg/m³, 83.9 µg/m³ & 79.2 µg/m³ respectively which were within permissible limit of 100 µg/m³ and PM_{2.5} levels are 52.72 µg/m³ at Station No: 1, 51.54 µg/m³ at Station No: 2 and 50.0 µg/m³ at Station No: 3, were also observed within permissible limit of 60 µg/m³ (for residential, rural and other areas as stipulated in the National Ambient Air Quality Standards). SO₂ ranges between 12.76 µg/m³ to 14.49 µg/m³ and NO_x ranges between 18.55 µg/m³ to 22.05 µg/m³ was also observed within the corresponding stipulated limits (Limit for SO₂ and NO_x: 80 µg/m³) at all of the 03 monitoring locations. Station wise variation of ambient air quality parameters has been graphically shown in Figure-3.1 to 3.4.

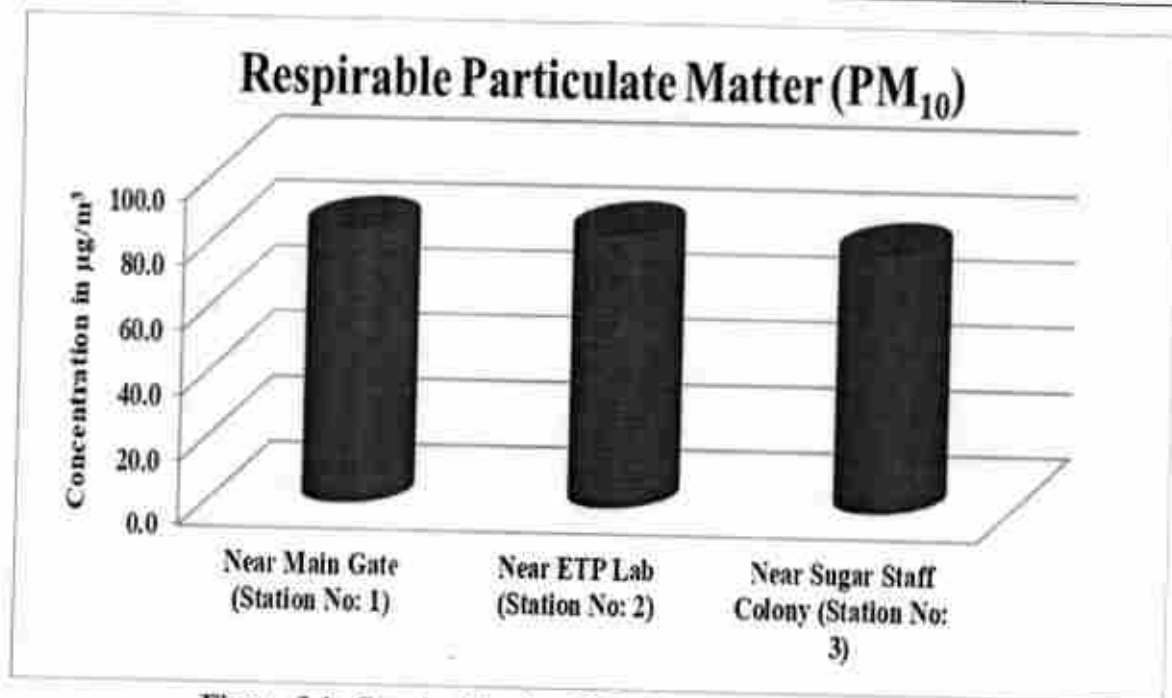


Figure-3.1: Graphs Showing PM₁₀ Concentration at all sites

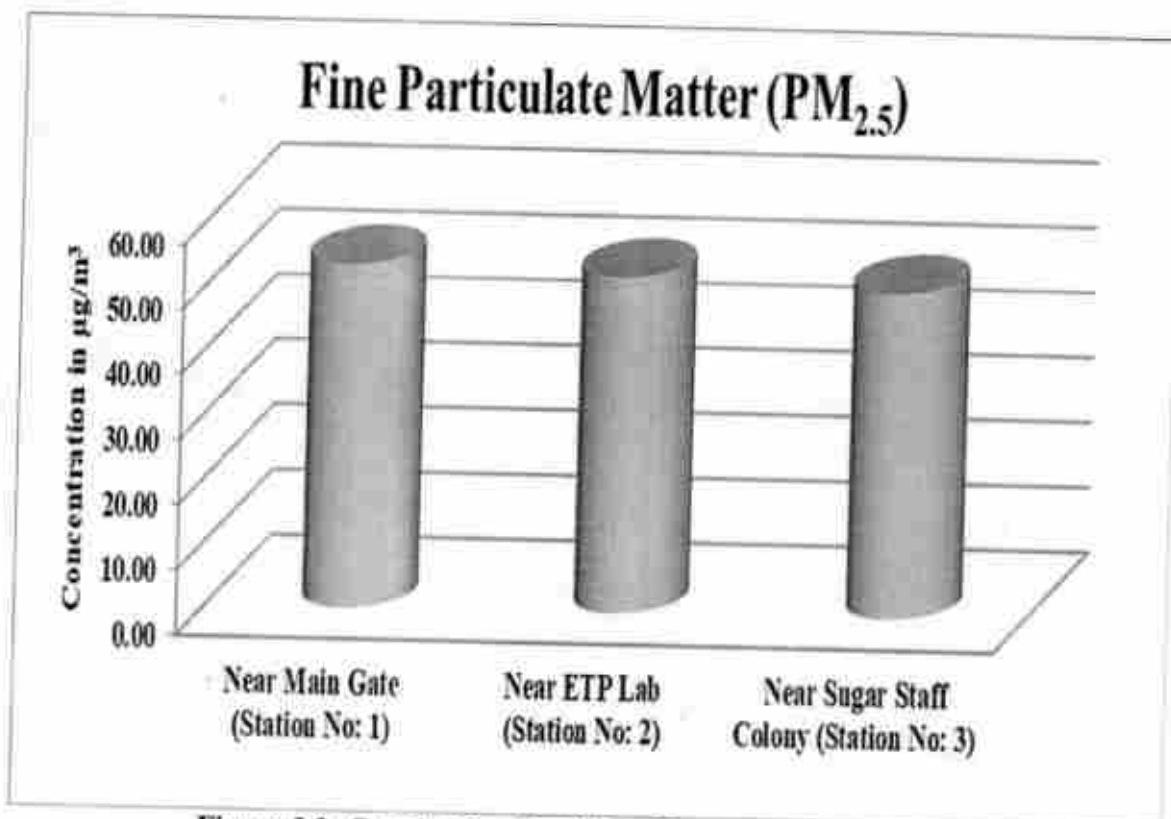


Figure-3.2: Graphs Showing PM_{2.5} Concentration at all sites

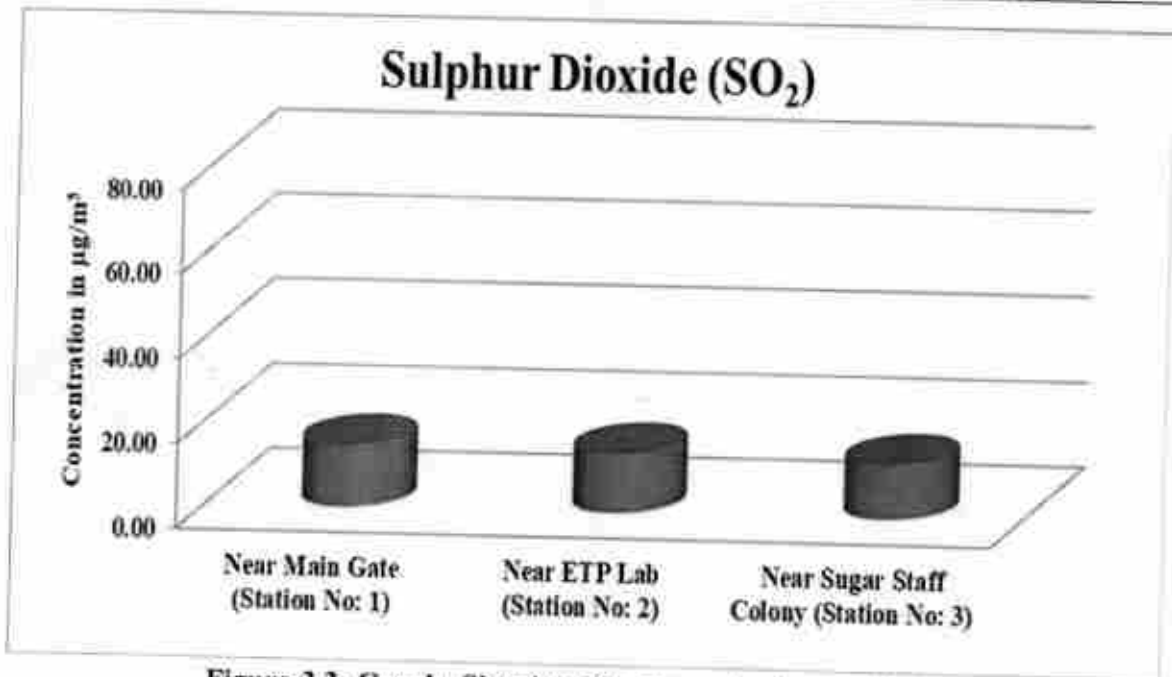


Figure-3.3: Graphs Showing SO₂ Concentration at all sites

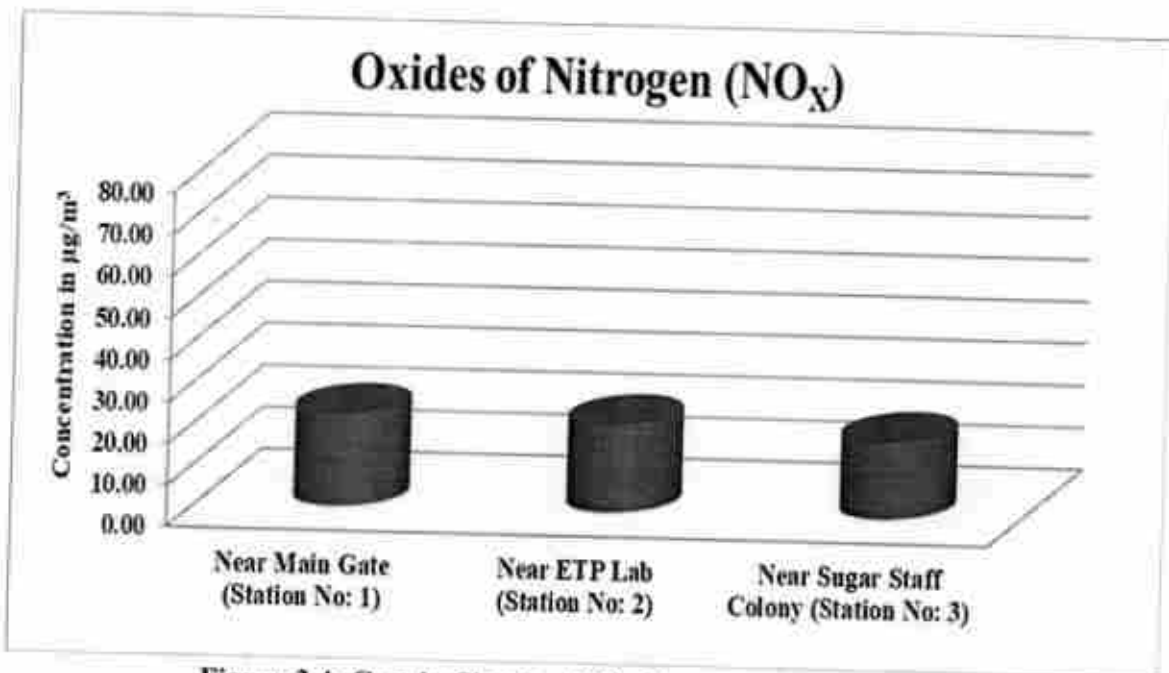


Figure-3.4: Graphs Showing NO_x Concentration at all sites

3.2 STACK EMISSION MONITORING

Stack Emission monitoring was carried out by EPA approved Laboratory on date 16.09.2022 for stack attached with 45.0 TPH boiler (Bag filters is used as Air Pollution Control Device with a stack height of 80.0 meter).

3.2.1 Stack Emission Monitoring Methodology

Monitoring was conducted in respect of the following parameters:

- Particulate Matter (PM)

The Method used for Stack Emission monitoring and range of testing with CPCB standard are given in Table-3.6

Table-3.6: Details of Stack Emission Monitoring Results

Sr. No.	Parameter	Unit	Protocol	Result Dated 16.09.2022	Range of Testing/ Limit of Detection	Standard (as per CPCB)
1	Particulate Matter	mg/Nm ³	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	45.8	2.0 - 1000	150

3.3 AMBIENT NOISE MONITORING

3.3.1 Ambient Noise Monitoring Locations

The main objective of noise monitoring in the study area is to assess the present ambient noise levels near project site due to various industrial activities and increased vehicular movement. A preliminary reconnaissance survey has been undertaken to identify the major noise generating sources in the area. Ambient noise monitoring was conducted at 1 location as given in Table-3.7.

Table-3.7: Details of Ambient Noise Monitoring Stations

Sr. No	Location Code	Location name and description	Date of Monitoring
1.	NQ-1	Near admin block	16/09/2022 to 17/09/2022

3.3.2 Methodology of Noise Monitoring

Noise levels were measured using sound level meter. Noise level monitoring was carried out continuously for 24-hours with one hour interval starting at 06:00 hrs to 06:00 hrs next day. The noise levels were monitored on working days only. During each hour Leq were directly computed by the instrument based on the sound pressure levels. Monitoring was carried out at 'A' response.

3.3.3 Ambient Noise Monitoring Results

The location wise ambient noise monitoring results is summarized in Table-3.8. The noise levels are graphically presented in Figure-3.5.

Table 3.8 Ambient Noise Monitoring Results

Sr. No.	Parameter	Unit	Ambient Noise Level	
			Results DAY TIME (6:00 AM – 10:00 PM)	Results NIGHT TIME (10:00 PM – 6:00 AM)
1	Equivalent sound level	dB(A)	64.18	49.23

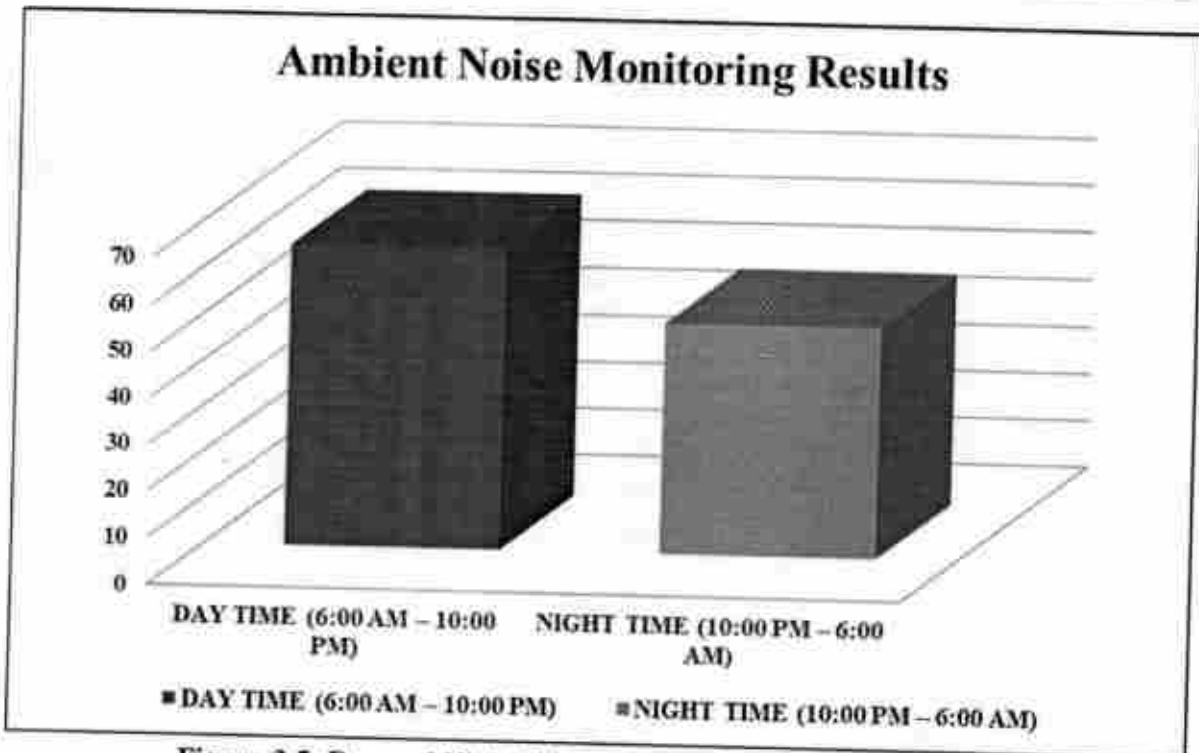


Figure-3.5: Day and Night Time noise Level at Near admin block

Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

3.3.4 Discussion on Ambient Noise Levels in the Study Area

Day Time Noise Levels (L_{day}):

The day time noise level at monitoring station was found 64.18 dB(A), which is within limits prescribed for industrial area i.e. 75 db (A).

Night Time Noise Levels (L_{night}):

The night time noise level at monitoring station was found 49.23 dB(A), which is within limit prescribed for industrial area i.e. 70 dB (A).

3.4 GROUND WATER QUALITY MONITORING

3.4.1 Ground water Quality Monitoring Locations

Keeping in view the importance of ground water, sample of ground water was collected from the project site for the assessment of impacts of the project on the groundwater quality.

Water sample was collected from the project site. The sample was analyzed for various parameters to compare with the standards for Ground water as per IS: 10500 for Groundwater sources. The details of water sampling locations are given in Table-3.9.

Table-3.9: Details of Water Quality Monitoring Station

Sr. No	Location Code	Location name and description	Date of Monitoring
1.	GW-1	Handpump (within premises)	15 th April, 2022
2.	GW-1	Handpump (within premises)	09 th May, 2022
3.	GW-1	Handpump (within premises)	23 rd June-2022
4.	GW-1	Handpump (within premises)	22 nd July, 2022
5.	GW-1	Handpump (within premises)	20 th August, 2022
6.	GW-1	Handpump (within premises)	17 th September, 2022

3.4.2 Methodology of ground water Quality Monitoring

Sampling of ground water was carried out on 15.04.2022, 09.05.2022, 23.06.2022, 22.07.2022, 20.08.2022 and 17.09.2022. Samples were collected as grab sample and sampling forms are filled in as per the sampling plan. The preservative sample were properly added to preserve as per standard operating procedures (SOP) and stored immediately in ice boxes, which were ensured for appropriate temperatures. Sample for chemical analysis was collected in polyethylene carboys. Sample collected for metal content were acidified to <2 pH with 1 ml HNO₃. A sample for bacteriological analysis was collected in sterilized glass bottles.

Soon after the completion of sampling, chain of custody sheets for the samples are filled in and then they were transported by road to Environmental & Technical Research Centre, Lucknow for further analysis. Proper care was taken during packing and transportation of samples. All the samples reached the central laboratory within the holding times for different parameters. After ensuring the same the samples were forwarded immediately for analysis.

The samples were analyzed as per the standard procedures specified in 'Standard Methods for the Examination of Water and Wastewater' published by American Public Health Association (APHA) and CPCB. The analytical techniques and the test methods adopted for testing of ground water are given in Table-3.10 to Table-3.15.

3.4.3 Ground water Quality Monitoring Results

The detailed Ground water quality monitoring results are presented in Table-3.10 to Table-3.15.

Table-3.10:
Ground water Quality Results at Handpump within premises (April, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500 : 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<0.5	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	BDL	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	430.6	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	430.6	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	31.10	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	28.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	32.14	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	280.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.11	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.08	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.83	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.11:
Ground water Quality Results at Handpump within premises (May, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<0.5	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	428.6	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.2	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.99	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	26.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F-C	0.42	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	30.25	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	308.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	292.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.15	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.05	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.75	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/ 100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/ 100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.12:
Ground water Quality Results at Handpump within premises (June, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<0.5	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H*	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	446.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	65.6	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg. B	30.13	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	40.2	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F-C	0.44	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	2.84	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as CaH ₂ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	32.86	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	288.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.14	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	1.08	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.13:
Ground water Quality Results at Handpump within premises (July, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<0.5	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	426.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg. B	33.048	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	24.04	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F-C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	29.0	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	288.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.12	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.05	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.91	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.14:
Ground water Quality Results at Handpump within premises (August, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<0.5	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.2	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	438.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.2	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	29.16	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	42.28	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F ⁻ C	0.42	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	4.8	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	38.64	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	292.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	268.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.22	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.06	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	1.14	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

Table-3.15
Ground water Quality Results at Handpump within premises (September, 2022)

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<0.5	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	426.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	27.21	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	30.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F ⁻ C	0.38	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	32.56	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	264.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.17	0.05 - 20	0.3	No Relaxation
22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.03	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	1.16	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	<i>E. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	<i>T. coli</i>	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

3.5 SOIL MONITORING

3.5.1 Soil Monitoring Locations

The objective of the soil monitoring is to identify the impacts of ongoing project activities on soil quality and also predict impacts, which have arisen due to execution of Industrial allied activities. Accordingly, a study of assessment of the soil quality has been carried out.

To assess impacts of ongoing project activities on the soil in the area, the Physico-chemical characteristics of soils were examined by obtaining soil samples from selected points and analysis of the same. Single sample of soil was collected from the project site for studying soil characteristics, the location of which is listed in Table-3.16.

Table-3.16: Details of Soil Monitoring Stations

Sr. No	Location Code	Location name and description
1.	SQ-1	Within Plant

3.5.2 Methodology of Soil Monitoring

The sampling has been done in line with IS: 2720 & Methods of Soil Analysis, Part-1st, 2nd Edition, 1986 of American Society for Agronomy and Soil Science Society of America. The homogenized samples were analyzed for physical and chemical characteristics (physical, chemical and heavy metal concentrations). The soil samples were collected in the month of September on 17.09.2022.

The samples have been analyzed as per the established scientific methods for Physico-chemical parameters. The heavy metals have been analyzed by using Atomic Absorption Spectrophotometer.

3.5.3 Soil Monitoring Results

Single sample of soil is collected from the site to check the quality of soil of the study area. The Physico-chemical characteristics of the soil, as obtained from the analysis of the soil sample, are presented in Table-3.17.

Table-3.17: Physico-Chemical Characteristics of Soil at near Plant Site

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.2	1 - 14
2	Electrical Conductivity	µmhos/cm	IS: 14767:2000 Reaffirmed:2016	296.0	1.0 - 40000
3	Moisture content	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2015	3.14	1.0 - 50
4	Sulphur	Kg/Hec	IS:14685: 1999 Reaffirmed: 2014	12.58	5.0 - 100
5	Boron	mg/kg	ETRC/ LABSOPS/06	BDL	4.0 - 100
6	Copper	mg/kg	ETRC/ LABSOPS/07	0.43	0.3 - 500
7	Zinc	mg/kg	ETRC/ LABSOPS/08	10.6	1.0 - 500
8	Iron	mg/kg	ETRC/ LABSOPS/09	68.48	5.0 - 500
9	Manganese	mg/kg	ETRC/ LABSOPS/10	8.42	5.0 - 500

3.5.4 Discussion on Soil Characteristics in the Study Area

The soil in study area is characterized by moderate organic content. The soil quality in the project area has not been affected by the project activities.

SIX MONTHLY ENVIRONMENTAL MONITORING REPORTS

(THIRD PARTY)

(Against compliance of Environmental Clearance of Ministry of Environment,
Forest and Climate Change)

(April, 2022 to September, 2022)

1. Ground Water Analysis Reports
2. Ambient Air Quality Monitoring Reports
3. Stack Analysis Report
4. Ambient Noise Monitoring Report
5. Soil Sample Analysis Report

M/s Balrampur Chini Mills Limited

Unit: Babhnan (Chemical Division)

Village: Babhnan, Tehsil: Mankapur

District: Gonda (U.P.) - 271313



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ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986

ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/EPA/6182/2022	Date of Report: 20.04.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Handpump (within premises)	6	Sample Collected By	Industry Self
3	Sample received date	15.04.2022	7	Analysis Start Date	15.04.2022
4	Sample Quantity	5.0 liters	8	Analysis End Date	19.04.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H*	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	430.6	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	31.10	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	28.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	32.14	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	280.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.11	0.05 - 20	0.3	No Relaxation



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ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986


Test Report Ref No. ETRC/EPA/6182/2022

22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.08	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.03	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

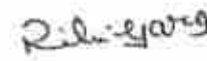
BDL-Below Detection Limit

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Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM14/TE/REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/EPA/6368/2022	Date of Report: 14.05.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Handpump (within premises)	6	Sample Collected By	Industry Self
3	Sample received date	09.05.2022	7	Analysis Start Date	09.05.2022
4	Sample Quantity	5.0 liters	8	Analysis End Date	13.05.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	428.6	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.2	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	34.99	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	26.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F ⁻ C	0.42	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	30.25	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	308.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	292.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.15	0.05 - 20	0.3	No Relaxation



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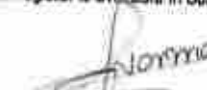
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22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.05	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.75	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

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ETRC/PM14/TEST-REP/FT/17

TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/EPA/6543/2022	Date of Report: 23.06.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Handpump (within premises)	6	Sample Collected By	Industry Self
3	Sample received date	23.06.2022	7	Analysis Start Date	23.06.2022
4	Sample Quantity	5.0 liters	8	Analysis End Date	27.06.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ¹	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	446.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	65.6	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	30.13	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	40.2	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.44	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-28): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	2.84	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	32.86	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	288.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.14	0.05 - 20	0.3	No Relaxation



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22	Manganese as Mn	mg/l	APHA 23 ⁰¹ Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 ⁰¹ Ed. 2017-3120 B (ICP-OES)	1.08	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 ⁰¹ Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 ⁰¹ Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 ⁰¹ Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 ⁰¹ Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 ⁰¹ Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 ⁰¹ Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

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TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/EPA/6740/2022	Date of Report: 27.07.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Handpump (within premises)	6	Sample Collected By	Industry Self
3	Sample received date	22.07.2022	7	Analysis Start Date	22.07.2022
4	Sample Quantity	5.0 liters	8	Analysis End Date	26.07.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H	7.4	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	426.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	33.046	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	24.04	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.40	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	29.0	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	304.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	288.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.12	0.05 - 20	0.3	No Relaxation



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22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.05	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.91	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/ 100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/ 100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

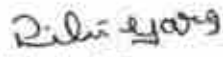
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TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/EPA/6875/2022	Date of Report: 25.08.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Handpump (within premises)	6	Sample Collected By	Industry Self
3	Sample received date	20.08.2022	7	Analysis Start Date	20.08.2022
4	Sample Quantity	5.0 liters	8	Analysis End Date	24.08.2022

TEST RESULT

Sr. No	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.2	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	438.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	59.2	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	29.16	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl B	42.28	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.42	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	4.8	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	38.64	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	292.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	268.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.22	0.05 - 20	0.3	No Relaxation



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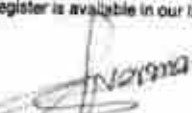
Test Report Ref No. ETRC/EPA/6875/2022

22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.06	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	1.14	0.05 - 16	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1822 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

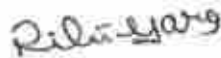
BDL=Below Detection Limit

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ETRC/PM14/TEST-REP/FT/37

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No. ETRC/EPA/7041/2022		Date of Report: 23.09.2022	
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Main Gate (Station No. 01)	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	54	54
(d)	Average ambient temperature (°C)	30	30
(e)	Time of Sampling Started (Hours)	10:10 am (15.09.2022)	10:10 am (15.09.2022)
(f)	Time of Sampling completed (Hours)	09:58 am (16.09.2022)	09:58 am (16.09.2022)
(g)	Total time of sampling (minutes)	24 hour (1411 minutes)	24 hour (1411 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.105	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1559.376	• 23.520
	• GAS (liter)	• 705.6	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	83.9	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	52.72	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.49	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	22.05	6.0 - 750	For 24 hour =80

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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No. ETRC/EPA/7042/2022		Date of Report: 23.09.2022	
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near ETP Lab (Station No. 02)	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	54	54
(d)	Average ambient temperature (°C)	30	30
(e)	Time of Sampling Started (Hours)	10:18 am (15.09.2022)	10:18 am (15.09.2022)
(f)	Time of Sampling completed (Hours)	10:06 am (16.09.2022)	10:06 am (16.09.2022)
(g)	Total time of sampling (minutes)	24 hour (1420 minutes)	24 hour (1420 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.145	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1626.129	• 23.669
	• GAS (liter)	• 710.1	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	83.9	5.0 - 1200	For 24 hour = 100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	51.54	2.0 - 500	For 24 hour = 60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	13.86	5.0 - 1050	For 24 hour = 80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	21.02	6.0 - 750	For 24 hour = 80

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Lab-Incharge




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TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No. ETRC/EPA/7043/2022		Date of Report: 23.09.2022	
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313	
Monitored by		ETRC, Lucknow	
Location of Sampling points		At the roof of admin office (Station No. 03)	
Sr. No.	GENERAL OBSERVATIONS	DETAILS	DETAILS
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	54	54
(d)	Average ambient temperature (°C)	31	31
(e)	Time of Sampling Started (Hours)	10:08 am (16.09.2022)	10:08 am (16.09.2022)
(f)	Time of Sampling completed (Hours)	10:04 am (17.09.2022)	10:04 am (17.09.2022)
(g)	Total time of sampling (minutes)	24 hour (1428 minutes)	24 hour (1428 minutes)
2	Average sampling rate for PM (m ³ /minute)	1.155	NA
3	Average sampling rate for gas (LPM)	0.5	NA
4	TOTAL VOLUME OF AIR SAMPLED		
	• PM (m ³)	• 1649.34	• 23.799
	• GAS (liter)	• 714.0	

TEST RESULT

Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/ 2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	79.2	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	50.0	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	12.76	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	18.55	6.0 - 750	For 24 hour =80

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ETRC/PM14/TES-REP/FT/36

TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT

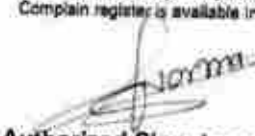
Test Report Ref No. ETRC/EPA/7044/2022		Date of Report: 23.09.2022
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	16.09.2022
(b)	Stack material	RCC
(c)	Height of stack from ground level	80.0 mts
(d)	Source to which stack attached	Boiler
(e)	No of boiler attached with capacity	01 No. (45.0 TPH)
(f)	Type and quantity of fuel used	Slop & Bagasse
(g)	Details of APCS installed	Bag Filters
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	34.0
(b)	Stack gas temperature (°C)	130.0
(c)	Stack gas velocity (m/sec)	11.79
(d)	Flow rate (LPM)	17
(e)	Sampling time (minutes)	62
(f)	Volume of air sampled (liters)	1054

TEST RESULT

Sr. No.	Parameter	Unit	Protocol	Result	Range of Testing / Limit of Detection	Standard (as per CPCB)
1	Particulate Matter	mg/Nm ³	IS: 11255 (Part-1): 1985 Reaffirmed: 2019	45.8	2.0 - 1000	150

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TEST REPORT AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No. ETRC/EPA/7045/2022		Date of Report: 23.09.2022
Name /Address/Type of Industry		M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
(a)	Date of monitoring	16/09/2022 (6:00 AM) to 17/09/2022 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Sampling Location	Near admin block
(d)	Environmental Condition	Normal


TEST RESULT

Sr. No.	Parameter	Unit	Ambient Noise Level	
			Results DAY TIME (6:00 AM - 10:00PM)	Results NIGHT TIME (10:00 PM - 6:00AM)
1	Equivalent sound level	dB(A)	64.18	49.23


Area Code	Category of Area/Zone	Limits in dB(A) Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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TEST REPORT WATER ANALYSIS

Test Report Ref No. ETRC/EPA/7046/2022	Date of Report: 23.09.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Handpump (within premises)	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	17.09.2022	7	Analysis Start Date	17.09.2022
4	Sample Quantity	5.0 liters	8	Analysis End Date	22.09.2022

TEST RESULT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection	Indian Standard 10500: 2012	
						Desirable	Permissible
Physico-chemical Parameters							
1	Colour	Hazen	IS: 3025 (Part-4): 1983 Reaffirmed: 2017	<5.0	5 - 30	5	15
2	Odour	-	IS: 3025 (Part-5): 1983 Reaffirmed: 2017	Agreeable	Qualitative	Agreeable	Agreeable
3	pH	-	APHA 23 rd Ed. 2017-4500 H ⁺	7.5	1 - 14	6.5-8.5	No Relaxation
4	Turbidity	NTU	APHA 23 rd Ed. 2017-2130 B	BDL	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	426.8	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	BDL	0.5 - 2.0	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	BDL	0.05 - 0.5	0.2	1.0
8	Calcium as Ca	mg/l	IS: 3025 (Part-40): 1991 Reaffirmed: 2019	60.8	2.0 - 600	75	200
9	Magnesium as Mg	mg/l	APHA 23 rd Ed. 2017-3500 Mg, B	27.21	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	30.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F C	0.38	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	BDL	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	BDL	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	BDL	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	32.56	1.0 - 500	200	400
16	Alkalinity as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2320 B	288.0	2.0 - 1000	200	600
17	Total Hardness as CaCO ₃	mg/l	APHA 23 rd Ed. 2017-2340 C	264.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 10	0.05	1.5
21	Iron as Fe	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.17	0.05 - 20	0.3	No Relaxation



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Test Report Ref No. ETRC/EPA/7048/2022

22	Manganese as Mn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	0.03	0.02 - 5.0	0.1	0.3
23	Zinc as Zn	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	1.16	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	BDL	0.03 - 5.0	0.05	No Relaxation
Microbiological Parameters							
30	E. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	
31	T. coli	MPN/100 ml	IS: 1622 - 1981 Reaffirmed: 2019	Absent	≥ 2 MPN Present or Absent per 100 ml	Shall not be detected in any 100 ml sample	

BDL=Below Detection Limit

..... END OF REPORT.....

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that this data reflects our best attempt to generate accurate results for the sample, mentioned in the report as above.
- The result relate only to the items tested.
- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results and/or the performance of the equipment constituting to the results.
- All disputes subject to Lucknow jurisdiction.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Complain register is available in our laboratory.


 Authorized Signatory
 (Sandeep Kr Verma)
 Lab-Incharge




 Authorized Signatory
 (Ritu Garg)
 QM



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

Office & Laboratory: 2/261, Vishwas Khand, Gomti Nagar, Lucknow- 226 010 (U.P.)

Email : ETRCLTH@YAHOO.IN, Web: www.etrclth.com

ISO 9001:2015, ISO 14001 : 2015, OHSAS 18001 : 2007

An Approved Laboratory from Ministry of Environment, Forest and Climate change, Govt. of India under EPA 1986

ETRC/PM14/TES-REP/FT/38

TEST REPORT SOIL ANALYSIS

Test Report Ref No. ETRC/EPA/7047/2022	Date of Report: 23.09.2022
Name /Address/Type of Industry	M/s Balrampur Chini Mills Limited Unit: Babhnan (Chemical Division) Village: Babhnan, Tehsil: Mankapur District: Gonda (U.P.) - 271313

SAMPLE DETAILS

1	Sampling Location	Within Plant	5	Packing Condition	Sealed
2	Sample Description	Soil	6	Sample Collected By	ETRC, Lucknow
3	Sample received date	17.09.2022	7	Analysis Start Date	17.09.2022
4	Sample Quantity	500 g	8	Analysis End Date	22.09.2022


TEST REPORT

Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2016	7.2	1 - 14
2	Electrical Conductivity	µmhos/cm	IS: 14767: 2000 Reaffirmed: 2016	296.0	1.0 - 40000
3	Moisture content	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2015	3.14	1.0 - 50
4	Sulphur	Kg/Hec	IS :14685: 1999 Reaffirmed: 2014	12.58	5.0 - 100
5	Boron as B	mg/kg	ETRC/ LABSOPS/06	BDL	4.0 - 100
6	Copper as Cu	mg/kg	ETRC/ LABSOPS/07	0.43	0.3 - 500
7	Zinc as Zn	mg/kg	ETRC/ LABSOPS/08	10.6	1.0 - 500
8	Iron as Fe	mg/kg	ETRC/ LABSOPS/09	68.48	5.0 - 500
9	Manganese as Mn	mg/kg	ETRC/ LABSOPS/10	8.42	5.0 - 500

BDL= Below Detection Limit

END OF REPORT

- ETRC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices and that this data reflects our best attempt to generate accurate results for the sample, mentioned in the report as above.
- The result relate only to the items tested.
- ETRC does not assume any liability for any claims or damages related to the quality of parameter analyzed in the results and/or the performance of the equipment constituting to the results.
- All disputes subject to Lucknow jurisdiction.
- This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- Complain register is available in our laboratory.


Authorized Signatory
(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM

**Annexure-4: Tube well Log Book (April, 2022 to
September, 2022)**

BALRAMPUR CHINI MILLS LIMITED

UNIT : BABHNAN (GONDA) CHEMICAL DIVISION

BOREWELL READING RECORDS

MONTH - APRIL - 2022

Date	T.N-1 Totalizer Reading			T.N-2 Totalizer Reading			Total Water Cons. (Kl.)		A.A PRODUCTION (BL)		Signature
	Initial	Final	Net	Initial	Final	Net	TO DAY	TO DATE	TO DAY	TO DATE	
1.4.22	6899.63	690336	873	596976	596976	0	873	873	126142.00	126142.00	AS
2.4.22	690336	691149	813	596976	596976	0	813	1686	40000.00	166142.00	AS
3.4.22	691149	691971	830	596976	596976	0	830	2516	60215.00	226357.00	AS
4.4.22	691971	691971	0	596976	594856	280	880	3396	126136.00	352487.00	AS
5.4.22	691971	691971	0	596976	598738	282	882	4278	126172.00	478659.00	AS
6.4.22	691971	691971	0	596976	599626	288	888	5166	126508.00	605167.00	N.G. Das
7.4.22	691971	691971	0	600507	600507	281	881	6047	126610.00	731777.00	N.G. Das
8.4.22	691971	691971	0	601381	601381	274	874	6921	126112.00	857889.00	N.G. Das
9.4.22	691971	691971	0	602257	602257	276	876	7797	126121.00	984010.00	AS
10.4.22	691971	692259	280	603138	603138	281	881	8678	126121.00	1110131.00	AS
11.4.22	692259	692740	281	603138	603138	0	880	9558	126116.00	1236247.00	AS
12.4.22	692740	694624	284	603138	603138	0	884	10439	126132.00	1362399.00	AS
13.4.22	694624	695504	880	603138	603138	0	880	11323	126112.00	1488491.00	mk
14.4.22	695504	696381	277	603138	603138	0	877	12203	126036.00	1641527.00	mk
15.4.22	696381	697264	283	603138	603138	0	883	13080	126142.00	1740669.00	mk
16.4.22	697264	698149	285	603138	603138	0	885	13963	126194.00	1867863.00	mk
17.4.22	698149	698149	0	603138	604019	281	881	14848	126124.00	1992917.00	N.G. Das
18.4.22	698149	698149	0	604019	604898	279	879	15729	126156.00	2119073.00	N.G. Das
19.4.22	698149	698149	0	604898	605783	285	885	16608	126112.00	2245186.00	N.G. Das
20.4.22	698149	698149	0	605783	606666	283	883	17493	126165.00	2371351.00	AS
21.4.22	698149	698149	0	606666	607552	286	886	18376	126142.00	2487693.00	AS
22.4.22	698149	698149	0	607552	608431	279	879	19262	126140.00	2612363.00	AS
23.4.22	698149	698149	0	608431	609313	282	882	20141	126134.00	2744927.00	AS
24.4.22	698149	699043	894	609313	609313	0	894	21023	126134.00	2875901.00	AS
25.4.22	699043	699929	286	609313	609313	0	886	21907	126152.00	3002053.00	AS
26.4.22	699929	700811	282	609313	609313	0	882	22803	126166.00	3128219.00	N.G. Das
27.4.22	700811	701699	286	609313	609313	0	886	23685	126166.00	3254385.00	N.G. Das
28.4.22	701699	702555	258	609313	609313	0	858	24571	126170.00	3380555.00	N.G. Das
29.4.22	702555	703427	272	609313	609313	0	872	25429	65158.00	3445713.00	N.G. Das
								26301	81599.00	3527307.00	AS

REMARK'S :

AS
C

BALRAMPUR CHINI MILLS LIMITED

UNIT : BABHNA (GONDA) CHEMICAL DIVISION

BOREWELL READING RECORDS

MONTH: MAY - 2022

Date	T.N-1 Totalizer Reading			T.N-2 Totalizer Reading			Total Water Cons. (KL)		A.A PRODUCTION (BL)		Signature
	Initial	Final	Net	Initial	Final	Net	TO DAY	TO DATE	TO DAY	TO DATE	
10/5/22	703950	704346	896	609913	609919	0	896	896	81594.00	81534.00	AK
11/5/22	704346	705232	886	609913	609313	0	886	1782	126165.00	207459.00	AK
12/5/22	705232	705232	0	609313	610126	813	813	2595	126180.00	333529.00	AK
13/5/22	705232	705232	0	610126	610956	830	830	3425	126210.00	460149.00	AK
14/5/22	705232	705232	0	610956	611845	889	889	4314	126176.00	586325.00	AK
15/5/22	705232	705232	0	611845	612730	885	885	5199	126195.00	712520.00	AK
16/5/22	705232	705232	0	612730	613621	891	891	6090	126212.00	838732.00	AK
17/5/22	705232	705232	0	613621	614510	889	889	6979	126136.00	964868.00	AK
18/5/22	705232	706115	883	614510	615396	886	886	7865	126136.00	1091004.00	AK
19/5/22	706115	707001	886	615396	615396	0	886	8748	126166.00	1217170.00	AK
20/5/22	707001	707887	886	615396	615396	0	886	9634	126136.00	1343306.00	AK
21/5/22	707887	708770	883	615396	615396	0	883	10520	126146	1469452	AK
22/5/22	708770	709652	882	615396	615396	0	882	11402	126208	1595660	AK
23/5/22	709652	710535	883	615396	615396	0	883	12285	126186	1721846	AK
24/5/22	710535	711419	884	615396	615396	0	884	13168	126115	1847961	AK
25/5/22	711419	711419	0	615396	616279	883	883	14052	126115	1974076	AK
26/5/22	711419	711419	0	616279	617160	881	881	14935	126140	2100216	AK
27/5/22	711419	711419	0	617160	618047	887	887	15816	126166	2226382	AK
28/5/22	711419	711419	0	618047	618929	882	882	16702	126180	2352562	AK
29/5/22	711419	711419	0	618929	619820	891	891	17595	126210	2478722	AK
30/5/22	711419	711419	0	619820	620702	882	882	18476	126130	2604902	AK
31/5/22	711419	711419	0	620702	621592	890	890	19364	126171	2731073	AK
1/6/22	711419	712301	882	621592	621592	0	882	20248	126172	2857245	AK
2/6/22	712301	713184	883	621592	621592	0	883	21130	126190	2983425	AK
3/6/22	713184	714065	881	621592	621592	0	881	22012	126140	3109675	AK
4/6/22	714065	714953	888	621592	621592	0	888	22894	126120	3235895	AK
5/6/22	714953	715834	881	621592	621592	0	881	23782	126170	3361805	AK
6/6/22	715834	716721	887	621592	621592	0	887	24663	126166	3487971	AK
7/6/22	716721	717605	884	621592	621592	0	884	25550	126066	3614027	AK
8/6/22	717605	717605	0	621592	622399	807	807	26434	126066	3740103	AK
9/6/22								27291	40054	3780157	AK

REMARKS:

AK

BALRAMPUR CHINI MILLS LIMITED

UNIT : BABHMAN (GONDA) CHEMICAL DIVISION

BOREWELL READING RECORDS

MONTH: JUNE - 2022

Date	T.N-1-Totalizer Reading			T.N-2 Totalizer Reading			Total WaterCons. (KL)		A.A PRODUCTION (BL)		Signature
	Initial	Final	Net	Initial	Final	Net	TO DAY	TO DATE	TO DAY	TO DATE	
	31.5.22	717605	717605	0	622389	622409	10	10	10	0		0	ck
1.6.22	717605	717605	0	622409	622419	10	10	20	0	0	ck
2.6.22	717605	717605	0	622419	622429	10	10	30	0	0	ck
3.6.22	717605	717605	0	622429	622439	10	10	40	0	0	ck
4.6.22	717605	717605	0	622439	622449	10	10	50	0	0	ck
5.6.22	717605	717605	0	622449	622459	10	10	60	0	0	ck
6.6.22	717605	718470	865	624153	624153	0	865	1772	75390	75390	mk
7.6.22	718470	719352	882	624153	624153	0	882	2654	103514.0	293920	mk
8.6.22	719352	720204	852	624153	624153	0	852	3506	80116.0	374036	mk
9.6.22	720204	721089	885	624153	624153	0	885	4391	125110.0	499196	mk
10.6.22	721089	721973	884	624153	624153	0	884	5275	125140.0	624286	ck
11.6.22	721973	722859	886	624153	624153	0	886	6161	125112.0	749938	ck
12.6.22	722859	723745	886	624153	624153	0	886	7047	125112.0	874510	ck
13.6.22	723745	723745	0	624153	625036	883	883	7930	125116.0	999126	ck
14.6.22	723745	723745	0	625036	625919	883	883	8813	125164.0	1124790	ck
15.6.22	723745	723745	0	625919	626806	887	887	9700	125108.0	1249898	Ngikom
16.6.22	723745	723745	0	626806	627688	882	882	10582	125108.0	1375000	Ngikom
17.6.22	723745	723745	0	627688	628569	881	881	11463	125120.0	15001120	Ngikom
18.6.22	723745	723745	0	628569	629454	885	885	12348	125136.0	1625248	Ngikom
19.6.22	723745	723745	0	629454	630339	885	885	13233	125136.0	1750384	Ngikom
20.6.22	723745	724630	885	630339	630339	0	885	14118	125126.0	1875510	ck
21.6.22	724630	725513	883	630339	630339	0	883	15001	125110.0	2000620	ck
22.6.22	725513	726399	886	630339	630339	0	886	15887	125096.0	2125716	ck
23.6.22	726399	727289	890	630339	630339	0	890	16777	125114.0	2250830	ck
24.6.22	727289	728178	889	630339	630339	0	889	17666	125090.0	2375920	mk
25.6.22	728178	729059	881	630339	630339	0	881	18547	125105.0	2501025	mk
26.6.22	729059	729939	880	630339	630339	0	880	19427	125105.0	2626190	mk
27.6.22	729939	729939	0	630339	631106	767	767	20314	107106.0	2751336	mk
28.6.22	729939	729939	0	631106	631976	870	870	21064	125121.0	2859362	ck
29.6.22	729939	729939	0	631976	632860	884	884	21948	125147.0	29895010	ck

REMARK'S:

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BALRAMPUR CHINI MILLS LIMITED

UNIT : BABHMAN (GONDA) CHEMICAL DIVISION
BOREWELL READING RECORDS

MONTH: July-2015

Date	T.N-1 Totalizer Reading			T.N-2 Totalizer Reading			Total Water Cons. (KL)		A.A PRODUCTION (BL)		Signature
	Initial	Final	Net	Initial	Final	Net	TO DAY	TO DATE	TO DAY	TO DATE	
27/07/15	729939	729939	0	632012	632872	859	859	859	115116.0	113116.0	(E)
28/07/15	729939	729939	0	632872	633742	870	870	1729	115093.0	225211.00	(E)
29/07/15	729939	729939	0	633742	634616	874	874	2602	118136.0	342347.00	(E)
30/07/15	729939	730814	875	634616	635490	874	874	3477	118136.0	461482.00	(E)
31/07/15	730814	731700	886	635490	635490	0	875	4352	118952.0	580435.00	(E)
01/07/15	731700	732586	886	635490	635490	0	886	5238	119124.0	690559.00	(E)
02/07/15	732586	733477	891	635490	635490	0	886	6124	119200.00	818759.00	(E)
03/07/15	733477	734356	879	635490	635490	0	891	7015	120086.0	928845.00	(E)
04/07/15	734356	735254	898	635490	635490	0	879	7894	124799.00	1062644.00	(E)
05/07/15	735254	736073	819	635490	635490	0	898	8792	125059.0	1188702.00	(E)
06/07/15	736073	736073	0	635490	636234	844	819	9611	125059.0	1313762.00	(E)
07/07/15	736073	736073	0	636234	637215	881	844	10455	12700.00	1332462.00	(E)
08/07/15	736073	736073	0	637215	638095	880	881	11236	24710.00	1359173.00	(E)
09/07/15	736073	736073	0	638095	638987	892	880	12116	124800.00	1482672.00	(E)
10/07/15	736073	736073	0	638987	639881	894	892	13108	125126.0	1608798.00	(E)
11/07/15	736073	736073	0	639881	640773	892	894	14002	125100.0	1733898.00	(E)
12/07/15	736073	736948	875	640773	641655	882	892	14894	12468.0	1846366.00	(E)
13/07/15	736948	737725	777	641655	641655	0	882	15776	112468.0	1958834.00	(E)
14/07/15	737725	737735	10	641655	641655	0	875	16651	125136.0	2082970.00	(E)
15/07/15	737735	737745	10	641655	641655	0	777	17429	125142.0	2209112.0	(E)
16/07/15	737745	737745	0	641655	641655	0	10	17428	4264530	225175730	(E)
17/07/15	737745	737755	10	641655	641655	0	10	17448	0.00	225175730	(E)
18/07/15	737755	737765	10	641655	641655	0	10	17458	0.00	225175730	(E)
19/07/15	737765	738552	787	641655	641655	0	10	17468	0.00	225175730	(E)
20/07/15	738552	739439	887	641655	641655	0	787	18255	0.00	225175730	(E)
21/07/15	739439	740319	880	641655	641655	0	887	19142	81210.0	233296230	(E)
22/07/15	740319	740319	0	641655	642545	890	880	20022	125067.0	2458020.30	(E)
23/07/15	740319	740319	0	642545	643434	889	890	20912	119026.0	2577060.30	(E)
24/07/15	740319	740319	0	643434	644324	890	889	21801	125128.0	2702180.30	(E)
25/07/15	740319	740319	0	644324	645212	888	890	22691	122065.0	2824252.20	(E)
26/07/15	740319	740319	0	645212	645212	888	888	23579	125106.50	2949359.70	(E)

REMARKS:

[Handwritten Signature]

BALRAMPUR CHINI MILLS LIMITED

UNIT : BABHNA (GONDA) CHEMICAL DIVISION
BOREWELL READING RECORDS

MONTH- AUGUST-2022

Date	T.N-1 Totallizer Reading			T.N-2 Totallizer Reading			Total Water Cons. (KL)		A.A PRODUCTION (BL)		Signature
	Initial	Final	Net	Initial	Final	Net	TO DAY	TO DATE	TO DAY	TO DATE	
01/08/22	740319	740319	0	645212	646100	888	888	888	125112.00	125112.00	(E)
02/08/22	740319	740319	0	646100	646990	890	890	1778	125166.00	250278.00	(E)
03/08/22	740319	740319	0	646990	647880	890	890	2668	125182.00	375460.00	(E)
04/08/22	740319	741162	843	647880	648709	829	829	3497	29273.00	404733.00	(E)
05/08/22	741162	742036	874	648709	648709	0	874	4340	50106.00	454839.00	(E)
06/08/22	742036	742912	876	648709	648709	0	876	5214	110136.00	564975.00	(E)
07/08/22	742912	743789	877	648709	648709	0	877	6090	110140.50	675115.50	(E)
08/08/22	743789	744668	879	648709	648709	0	879	6967	110140.50	785256.00	(E)
09/08/22	744668	745541	873	648709	648709	0	879	7846	110246.00	895502.00	(E)
10/08/22	745541	746416	875	648709	648709	0	873	8719	110266.00	1005768.00	(E)
11/08/22	746416	746416	0	648709	648709	0	875	9594	110152.00	1115920.00	(E)
12/08/22	746416	746416	0	649578	649578	869	869	10463	106076.00	1221996.00	(E)
13/08/22	746416	746416	0	649578	650444	866	866	11329	107125.00	1329121.00	(E)
14/08/22	746416	746416	0	650444	651314	870	870	12199	109570.00	1438631.00	(E)
15/08/22	746416	746416	0	651314	652176	862	862	13061	109570.00	1548191.00	(E)
16/08/22	746416	746416	0	652176	653049	873	873	13934	110095.00	1658236.00	(E)
17/08/22	746416	746416	0	653049	653922	878	878	14812	110215.00	1768451.00	(E)
18/08/22	746416	747306	890	653922	654814	892	887	15699	121116.00	1889507.00	(E)
19/08/22	747306	748143	837	654814	654814	0	890	16589	122066.00	2011633.00	(E)
20/08/22	748143	749016	873	654814	654814	0	857	17446	97233.00	2108866.00	(E)
21/08/22	749016	749865	849	654814	654814	0	853	18299	92121.00	2200987.00	(E)
22/08/22	749865	750740	875	654814	654814	0	849	19148	92121.00	2293108.00	(E)
23/08/22	750740	751630	890	654814	654814	0	875	20023	104032.00	2397140.00	(E) SNA
24/08/22	751630	752528	898	654814	654814	0	890	20913	117321.76	2514468.56	(E)
25/08/22	752528	752528	0	654814	655688	874	898	21811	121244.18	2635712.74	(E)
26/08/22	752528	752528	0	655688	656582	894	874	22685	103922.54	2739635.28	(E)
27/08/22	752528	752528	0	656582	657474	892	894	23579	122031.67	2861665.95	(E)
28/08/22	752528	752528	0	657474	658367	893	892	24471	116400.73	2978065.95	(E)
29/08/22	752528	752528	0	658367	659260	893	893	25364	116000.73	3094466.68	(E)
30/08/22	752528	752528	0	659260	660152	892	892	27149	121241.87	3215708.55	(E)
									122572.32	3338200.47	(E)

REMARKS:

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(E) *Signature* 5/9/22

BALRAMPUR CHINI MILLS LIMITED

UNIT : BABHNAN (GONDA) CHEMICAL DIVISION

BOREWELL READING RECORDS

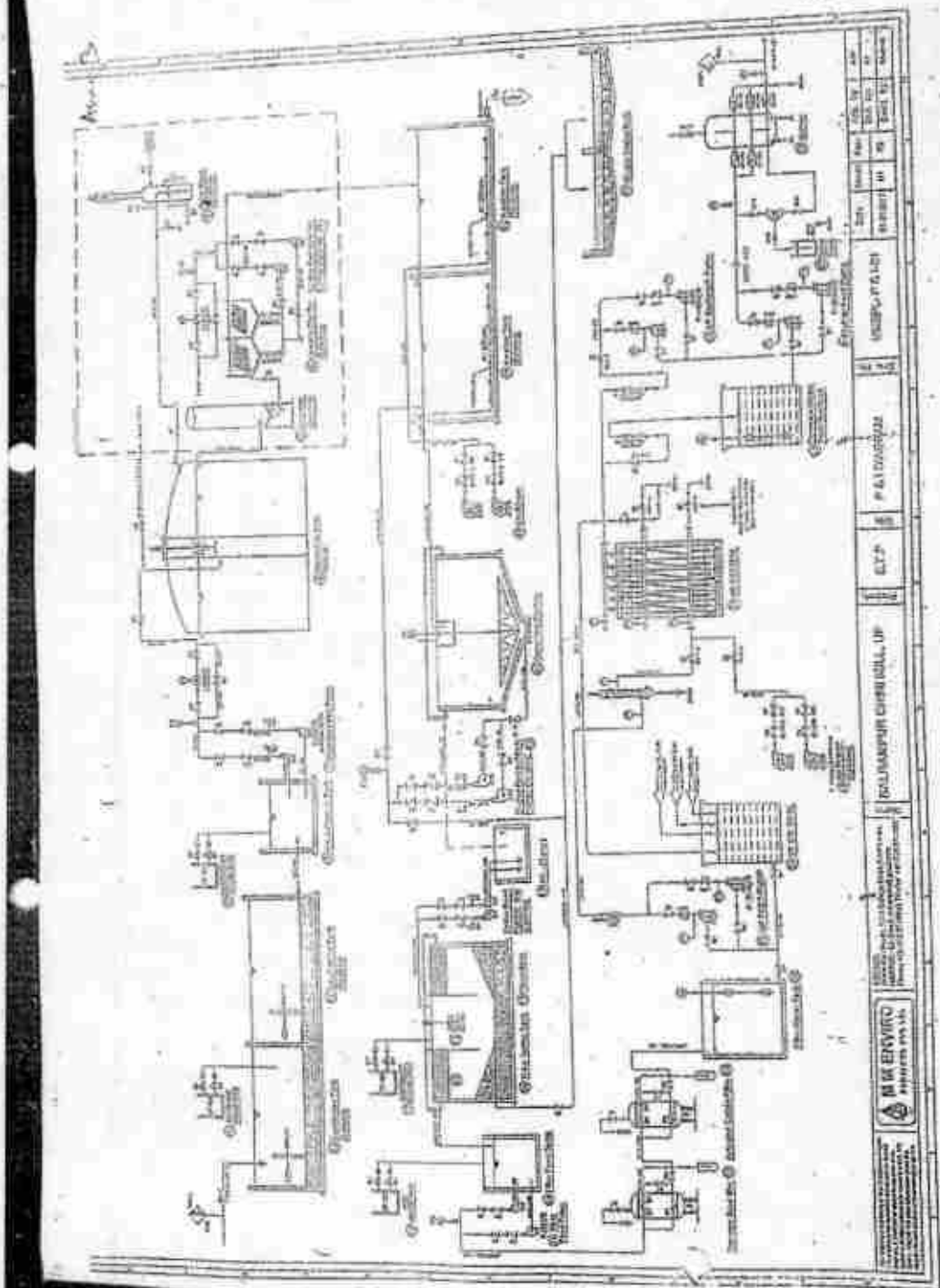
MONTH- SEPTEMBER-2022

Date	T.N-1 Totallizer Reading			T.N-2 Totallizer Reading			Total Water Cons. (KL)		A.A PRODUCTION (BL)		Signature
	Intial	Final	Net	Intial	Final	Net	TO DAY	TO DATE	TO DAY	TO DATE	
31/08/22	752528	753419	891	660152	660152	0	891	891	122570.91	122570.91	(E)
01/09/22	753419	753419	0	661044	661044	892	892	1783	122570.90	1245152.91	(E)
02/09/22	753419	753419	0	661044	661935	891	891	2674	122555.21	1267411.12	(E)
03/09/22	753419	753419	0	661935	662825	890	890	3564	119876.04	1487287.16	(E)
04/09/22	753419	753419	0	662825	663712	887	887	4451	119876.04	1607163.20	(E)
05/09/22	753419	753419	0	663712	664596	884	884	5335	120063.70	1737228.90	(E)
06/09/22	753419	753419	0	664596	665481	885	885	6220	119884.40	1847113.30	(E)
07/09/22	753419	753419	0	665481	666365	884	884	7104	119909.66	1967022.96	(E)
08/09/22	753419	754307	888	666365	666365	0	888	7992	116149.99	1083172.95	(E)
09/09/22	754307	755192	885	666365	666365	0	885	8872	116327.37	1199500.52	(E)
10/09/22	755192	756079	887	666365	666365	0	887	9764	115819.60	1315314.12	(E)
11/09/22	756079	756967	888	666365	666365	0	888	10652	115813.71	1431127.83	(E)
12/09/22	756967	757851	884	666365	666365	0	884	11536	115690.74	1546818.57	(E)
13/09/22	757851	758623	772	666365	666365	0	772	12308	25754.39	1572572.96	(E)
14/09/22	758623	758633	10	666365	666365	0	10	12318	0.00	1572572.96	(E)
15/09/22	758633	758643	10	666365	666365	0	10	12328	0.00	1572572.96	(E)
16/09/22	758643	758653	10	666365	666365	0	10	12338	0.00	1572572.96	(E)
17/09/22	758653	758663	10	666365	666365	0	10	12348	0.00	1572572.96	(E)
18/09/22	758663	758673	10	666365	666365	0	10	12358	0.00	1572572.96	(E)
19/09/22	758673	758683	10	666365	666365	0	10	12368	0.00	1572572.96	(E)
20/09/22	758683	758693	10	666365	666365	0	10	12378	0.00	1572572.96	(E)
21/09/22	758693	758703	10	666365	666365	0	10	12388	0.00	1572572.96	(E)
22/09/22	758703	758713	10	666365	666365	0	10	12398	0.00	1572572.96	(E)
23/09/22	758713	758723	10	666365	666365	0	10	12408	0.00	1572572.96	(E)
24/09/22	758723	758733	10	666365	666365	0	10	12418	0.00	1572572.96	(E)
25/09/22	758733	758743	10	666365	666365	0	10	12428	0.00	1572572.96	Nishant
26/09/22	758743	758753	10	666365	666365	0	10	12438	0.00	1572572.96	Nishant
27/09/22	758753	758763	10	666365	666365	0	10	12448	0.00	1572572.96	D
28/09/22	758763	758773	10	666365	666365	0	10	12458	0.00	1572572.96	D
29/09/22	758773	758783	10	666365	666365	0	10	12468	0.00	1572572.96	D
30/09/22	758783	758793	10	666365	666365	0	10	12478	0.00	1572572.96	D

REMARKS:

Jh

Annexure-5: Flow Diagram



		POLYMERIZATION CONTROL SYSTEM		P. A. 12345678		(MOTOR CONTROL)		No. 10	Rev. 1	Date 10/10/20	Drawn by	Checked by
M. S. ENVIRO 1234567890 1234567890		POLYMERIZATION CONTROL SYSTEM		P. A. 12345678		(MOTOR CONTROL)		No. 10	Rev. 1	Date 10/10/20	Drawn by	Checked by

Scanned v

Annexure-6: Photographs of Spent wash Lagoon

ANNEXURE 6

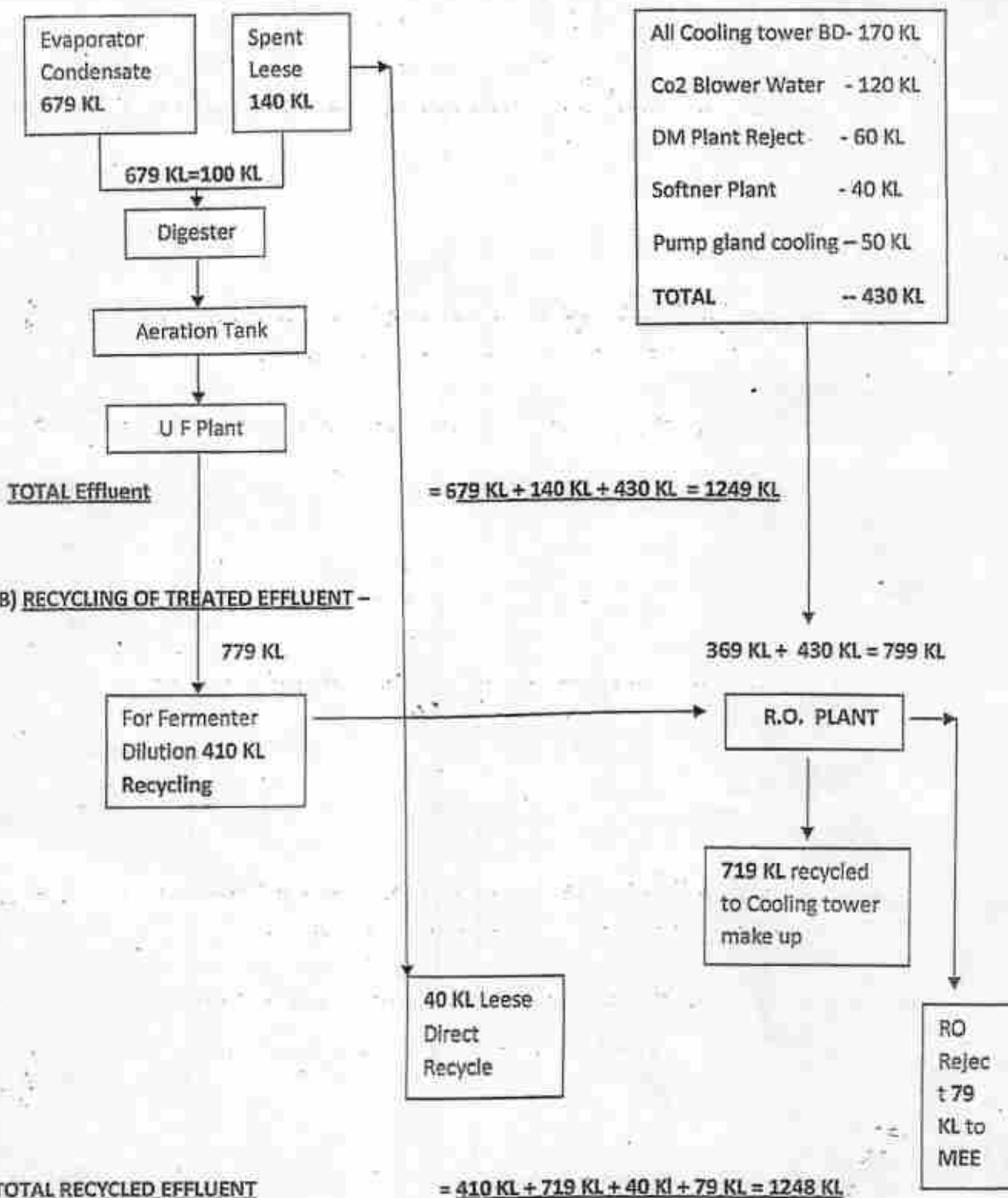


SPENT WASH STORAGE LAGOON

Annexure-7: Recycle Scheme

BABHNAN CPU SCHEME In BLOCK DIAGRAM

A) WASTE WATER GENERATION & TREATMENT



Annexure-8: Ash Management Schedule

BALRAMPUR CHINI MILL LTD. UNIT –BABHNAN (CHEMICAL DIVISION)

FLY ASH AND SLUDGE MANAGEMENT

1. Total working Days (April -22 to September -22) ----- 183 Days
2. Total Fly Ash Generation MT/Day ----- 20.21 MT/Day
3. Total Fly Ash Generation MT/Annum Day ----- 3698.43 MT/Annum
4. Total Sludge Generation MT/Day ----- 4.15 MT/Day
5. Total Sludge Generation MT/Annum ----- 759.45 MT/Annum

The Total Ash Quantity is being used for making Potash Granule rich in Potash being marketed to farmers

6. The Mitigation plan during rainy season – The Ash transfer in covered storage yard and used for making Potash Granules. The Dumper is also covered with tarpaulin during transportation.

Annexure-9: Layout of the Fire Fighting System

AVANT-GARDE
 ENGINEERING AND CONSULTANTS PVT. LTD.
 CHENNAI 600 116, INDIA

PROJECT: BEST WATER TREATMENT PLANT

CLIENT: TAMIL NADU GOVT. WATER SUPPLY DEPT.

DATE: 15/05/2017

SCALE: 1:1000

PROJECT NO.: AG/2017/001

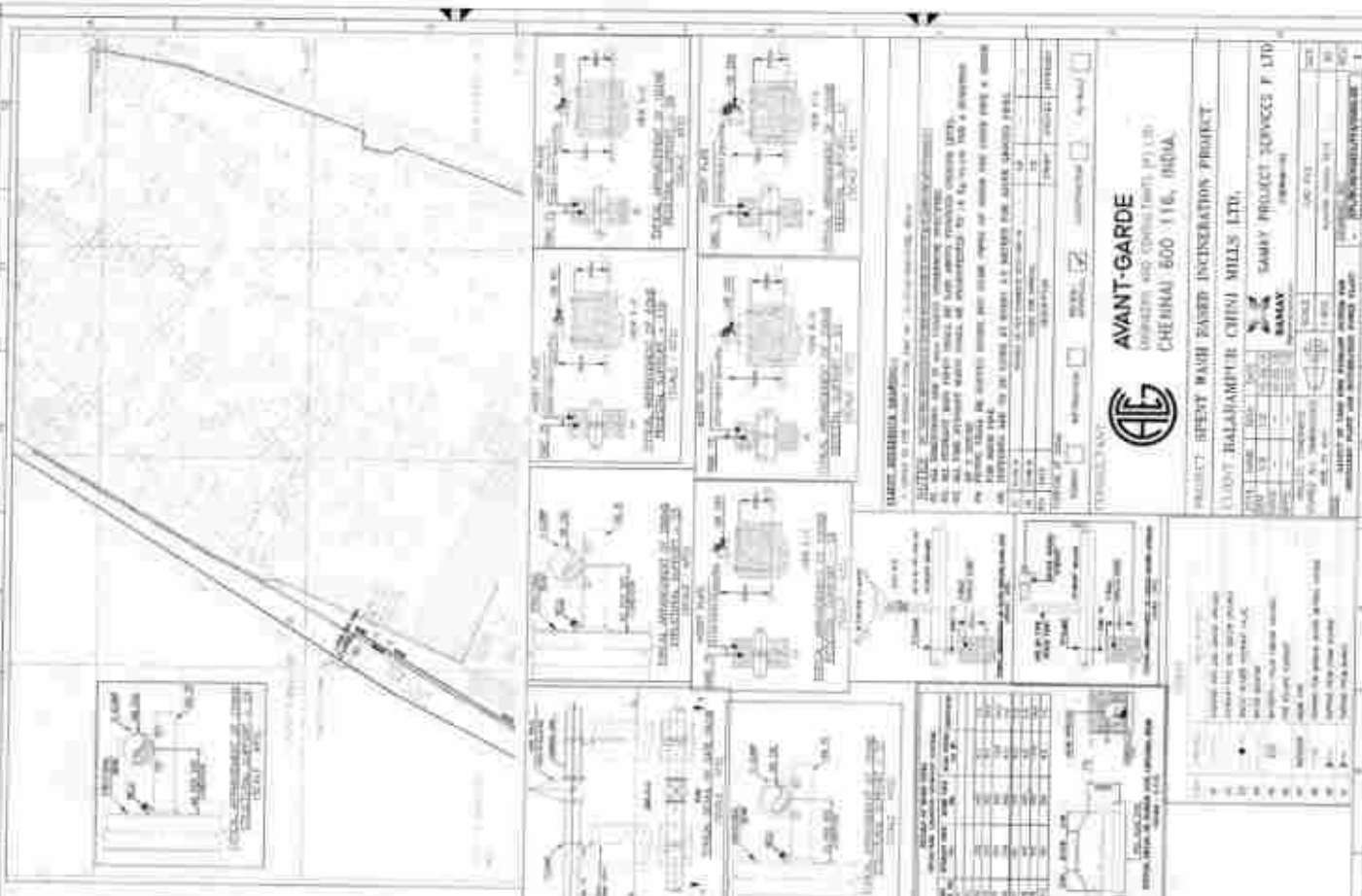
DESIGNER: [Signature]

CHECKED BY: [Signature]

DATE OF ISSUE: 15/05/2017

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	15/05/2017



AVANT-GARDE
 ENGINEERING AND CONSULTANTS PVT. LTD.
 CHENNAI 600 116, INDIA

PROJECT: BEST WATER TREATMENT PLANT

CLIENT: TAMIL NADU GOVT. WATER SUPPLY DEPT.

DATE: 15/05/2017

SCALE: 1:1000

PROJECT NO.: AG/2017/001

DESIGNER: [Signature]

CHECKED BY: [Signature]

DATE OF ISSUE: 15/05/2017

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	15/05/2017



AVANT-GARDE
 ENGINEERING AND CONSULTANTS PVT. LTD.
 CHENNAI 600 116, INDIA

PROJECT: BEST WATER TREATMENT PLANT

CLIENT: TAMIL NADU GOVT. WATER SUPPLY DEPT.

DATE: 15/05/2017

SCALE: 1:1000

PROJECT NO.: AG/2017/001

DESIGNER: [Signature]

CHECKED BY: [Signature]

DATE OF ISSUE: 15/05/2017

REVISIONS:

NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	15/05/2017

**Annexure-10: Medical records of employees Apr-
2022 to September-2022**



BALRAMPUR CHINI MILLS LIMITED

UNIT - BABHMAN (CHEMICAL DIVISION)

Factory : BABHMAN, P.O. BABHMAN SUGAR FACTORY, DISTT GONDA, (U.P.) PIN - 271313

CIN : L15421WB1975PLC030118

PHONES : (05546) 256634, 256680, 9936797321, 22 E-mail : bcm.babhman@bcmil.in

Date: 30th September-2022

TO WHOM SO EVER IT MAY CONCERN

The Competent Authority under Ministry of Environment & Forest

This is to certify that we have examined 98 employees the month of September 2022 of M/s. **BALRAMPUR CHINI MILLS LTD, UNIT BABHMAN (CHEMICAL DIVISION), DISTT. GONDA (U.P.)** working in the aforesaid organization.

During investigation none of the employees have been suffering from any type of skin disease/droplet infection or any other serious disease. All the employees mentioned in the list are totally fit to perform any type of job in Chemical Division.

ABBREVIATION:-

WNL - Within Normal Limit

NAD - No Abnormality Detected

GW - General Weakness

BP - Blood Pressure

PR - Pulse Rate

GE - General Examination

RR - Respiratory Rate

Dr. Pankaj Kumar Shukla

Medical Officer

Balrampur Chini Mills Ltd.

Unit: Babhman- Distt. Gonda (U.P.)

HEALTH REGISTER

1	2	3	4	5	6	8	9	10	11	12	13	14	15	16	17
Sl. No.	Name of department	Name of Worker/Staff	Sex	Age	Date of employment	Nature of job or occupation	Raw material production likely to be exposed	Date	Result Fit/Unfit	Signs & symptoms observed during examination with reason in detail	Nature of test & result thereof	If discharge unfit state period of suspension with reason and in detail	Whether certificate of unfit-ness issued to worker	Re-certified fit to resume duty on	Signature of the certifying surgeon with date
1	Gen & Adm	DR. M. K. GAUR	Male	13-Mar-68	23-Mar-65	Additional General Manager (Distillery)	MANAGERIAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]
2	Gen & Adm	SAURABH SRIVASTAVA	Male	1-Mar-81	1-Dec-21	Manager - Environment	MANAGERIAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]
3	Engg	Saurabh Kumar	Male	10-Jul-76	1-Sep-20	Manager - Electrical	MANAGERIAL	7-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	[Signature]
4	Engg	BROU BHUSHAN	Male	6-Oct-71	1-Oct-97	Chief Manager - ENGINEERING	MANAGERIAL	7-Sep-22	Fit	WELW	BP, PR, RR, GE	NA	NA	NA	[Signature]
5	MTG	ATUL KUMAR VERMA	Male	6-May-80	1-Nov-04	Chief Manager - Production	MANAGERIAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]
6	MTG	Manoj Kumar	Male	12-Aug-92	23-Feb-16	SHIFT CHEMIST	AGREEMENTAL	7-Sep-22	Fit	WNL	BP, PR, RR, GE	NA	NA	NA	[Signature]
7	Gen & Adm	PRAMOD KUMAR	Male	8-Jul-79	1-Dec-06	DEPUTY MANAGER - STORES	AGREEMENTAL	7-Sep-22	Fit	WNL	BP, PR, RR, GE	NA	NA	NA	[Signature]
8	Gen & Adm	RAVINDRA KUMAR SINGH	Male	1-Jul-68	4-Mar-13	SR. OFFICER - S & F	AGREEMENTAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]
9	Engg	Premod Kumar Triwari	Male	10-Jul-75	11-Jun-16	Head Filter - Power Plant	AGREEMENTAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]
10	Engg	Kanta Yadav	Male	4-Mar-70	13-Jun-16	Head Filter - Power Plant	AGREEMENTAL	7-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	[Signature]
11	Engg	Arvind Kumar	Male	5-Aug-93	13-Jun-22	Sr. Engineer Boiler	AGREEMENTAL	7-Sep-22	Fit	WELW	BP, PR, RR, GE	NA	NA	NA	[Signature]
12	Engg	Vivek Prakash Yadav	Male	15-Aug-87	15-Jun-16	Assistant Chief Engineer - Boiler	AGREEMENTAL	7-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	[Signature]
13	Engg	Gaurav Singh	Male	3-Feb-91	16-Jun-16	Sr. Engineer Boiler	AGREEMENTAL	7-Sep-22	Fit	WELW	BP, PR, RR, GE	NA	NA	NA	[Signature]
14	Engg	Naveen Mishra	Male	8-Feb-80	14-Aug-22	Sr. Technician - Instrumentation	AGREEMENTAL	7-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	[Signature]
15	Engg	Dhananjay Yadav	Male	1-Jul-85	16-Aug-16	WELDER	AGREEMENTAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]
16	Engg	Siddhartha Kumar	Male	27-Mar-93	19-Sep-16	Sr. Engineer - Electrical	AGREEMENTAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]
17	Engg	Aman Kumar	Male	12-Feb-93	3-Dec-16	SR. ENGINEER - ELECTRICAL	AGREEMENTAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]
18	Engg	Pratikesh Kumar Vashokarna	Male	10-Jul-89	5-Dec-16	Engineer	AGREEMENTAL	7-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	[Signature]

HEALTH REGISTER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sl. No.	Name of department	Name of Workers/Staff	Sex	Age	Date of employment	Nature of job or occupation	Raw material production likely to be exposed	Date	Result Fit/ Unfit	Symptoms observed during examination with reason in detail	Nature of test & result thereof	If discharge unfit state period of suspension with reason and in detail	Whether certificate of fitness issued to worker	Re-certified fit to resume duty on	Signature of the certifying surgeon with date	
19	Engg	Arunodh Kumar Sharma	Male	24-Jan-93	13-Sep-22	Sr. Engineer- Turbine	AGREEMENTAL	14-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
20	Engg	Hare Ram Yadav	Male	10-Jun-80	17-Dec-16	Turbine Operator	AGREEMENTAL	14-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
21	Engg	Jai Ram	Male	10-Jan-70	25-Dec-16	Sr. Technician - Instrumentation	AGREEMENTAL	14-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
22	Engg	Govind Kumar Yadav	Male	1-Jul-85	21-Dec-16	ENGINEER - TURBINE	AGREEMENTAL	14-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
23	Engg	Niraj Gopal Das	Male	2-Oct-80	28-Dec-16	Head Fitter	AGREEMENTAL	14-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
24	Engg	Vinod Kumar Shukla	Male	28-Dec-69	29-Dec-16	ASSISTANT MANAGER	AGREEMENTAL	14-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
25	Engg	YOGENDRA VERMA	Male	7-Jul-83	3-Mar-17	HEAD FITTER	AGREEMENTAL	14-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
26	Engg	Manoj Kumar Yadav	Male	7-Sep-83	29-Sep-18	Boiler Attendant	AGREEMENTAL	14-Sep-22	Fit	PAIN	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
27	Engg	Pradeep Kumar	Male	27-Nov-74	13-Oct-18	Electrician	AGREEMENTAL	14-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
28	Engg	Robin Kumar Gogoi	Male	19-Mar-86	29-Oct-18	Instrument Technician	AGREEMENTAL	14-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
29	Engg	Ravi Kumar	Male	1-Jan-84	18-Mar-20	Engineer - Instrumentation	AGREEMENTAL	14-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
30	Engg	RAKESH KUMAR SINGH	Male	8-Jan-75	16-Nov-60	Sr. Chemist-Examiner	AGREEMENTAL	14-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
31	Gen & Adm	RAJEEV KUMAR GUPTA	Male	4-Feb-72	1-Aug-04	Assistant Manager- Excise	AGREEMENTAL	14-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
32	Engg	CHANDAN KUMAR SINGH	Male	11-Dec-68	1-Feb-05	Assistant Chief Chemist	AGREEMENTAL	14-Sep-22	Fit	Fatigue	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
33	Gen & Adm	VISHAL GOEL	Male	21-Feb-82	1-Sep-05	ASSISTANT MANAGER - SALES	AGREEMENTAL	14-Sep-22	Fit	Headache	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
34	Engg	NAZRUL ISLAM	Male	1-Mar-79	1-Oct-05	Sr. LAB CHEMIST	AGREEMENTAL	14-Sep-22	Fit	Headache	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]
35	Engg	PATILK GARG	Male	24-Jul-75	26-Sep-06	ASSISTANT CHIEF CHEMIST	AGREEMENTAL	14-Sep-22	Fit	AN	BP, PR, RR, GE	NA	NA	NA	NA	[Signature]

HEALTH REGISTER

Sl. No.	Name of department	Name of Worker/Staff	Sex	Age	Date of employment	Nature of job or occupation	Raw material production likely to be exposed	Date	Result Fit/Unfit	Steps & attempts observed during examination with reason in detail	Nature of test & result thereof	If discharge in fit work state period of suspension with reason and in detail	Whether certificate of unfit. Issued to worker	Re-certified fit to resume duty on	Signature of the certifying surgeon with date
1															
26	Engg	SATIRABH KUMAR	Male	15-Oct-79	1-Nov-06	SR. ENGINEER - BELLER	AGREEMENTAL	14-Sep-22	Fit	GRW	BP, PR, RR, GE	NA	NA	NA	[Signature]
37	Mfg	KAMLESH KUMAR SINGH	Male	4-Oct-82	1-Dec-07	Ecogonator Operator / Pump Man	AGREEMENTAL	14-Sep-22	Fit	AW	BP, PR, RR, GE	NA	NA	NA	[Signature]
38	Engg	VISHNU DEO SINGH	Male	1-Jan-03	16-Nov-08	ENGINEER - ELECTRICAL	AGREEMENTAL	14-Sep-22	Fit	AW	BP, PR, RR, GE	NA	NA	NA	[Signature]
39	Engg	ABHAI TRIPATHI	Male	1-Jul-60	1-Oct-09	ASSISTANT ENGINEER - INSTRUMENT	AGREEMENTAL	14-Sep-22	Fit	GRW	BP, PR, RR, GE	NA	NA	NA	[Signature]
40	Mfg	RAM Nihal VERMA	Male	30-Mar-84	1-Oct-11	SHIFT CHEMIST	AGREEMENTAL	14-Sep-22	Fit	WORLD	BP, PR, RR, GE	NA	NA	NA	[Signature]
41	Mfg	ARUN KUMAR RAI	Male	1-Jan-78	21-Nov-12	SHIFT CHEMIST	AGREEMENTAL	14-Sep-22	Fit	GRW	BP, PR, RR, GE	NA	NA	NA	[Signature]
42	Mfg	HIMANSHU SHUKLA	Male	19-Jul-75	1-Oct-13	PUMP MAN	AGREEMENTAL	14-Sep-22	Fit	AW	BP, PR, RR, GE	NA	NA	NA	[Signature]
43	Engg	RAJN KANT SINGH	Male	10-Jul-81	1-Oct-13	Engine Driver cum SBA	AGREEMENTAL	14-Sep-22	Fit	GRW	BP, PR, RR, GE	NA	NA	NA	[Signature]
44	Engg	GADHAI DEO SINGH	Male	28-Sep-88	1-May-15	Sr. Engineer	AGREEMENTAL	14-Sep-22	Fit	AW	BP, PR, RR, GE	NA	NA	NA	[Signature]
45	Engg	Vishnu Prasad Singh	Male	15-Jul-83	1-Jan-04	Operator	AGREEMENTAL	14-Sep-22	Fit	GRW	BP, PR, RR, GE	NA	NA	NA	[Signature]
46	Mfg	Sumanth Dwivedi	Male	7-Aug-70	1-Apr-16	ASSISTANT MANAGER - ETP	AGREEMENTAL	14-Sep-22	Fit	GRW	BP, PR, RR, GE	NA	NA	NA	[Signature]
47	Mfg	Saty Prakash Singh	Male	1-Jan-70	1-Apr-16	Supervisor	AGREEMENTAL	14-Sep-22	Fit	AW	BP, PR, RR, GE	NA	NA	NA	[Signature]
48	Mfg	VIVEK KUMAR GUPTA	Male	3-Dec-88	10-Apr-17	Sr. Officer - Micro Biologist	AGREEMENTAL	14-Sep-22	Fit	AW	BP, PR, RR, GE	NA	NA	NA	[Signature]
50	Gen & Adm	SILJAN VEER SINGH	Male	1-Sep-92	29-Jun-17	Assistant Officer - Time Office	AGREEMENTAL	14-Sep-22	Fit	WORLD	BP, PR, RR, GE	NA	NA	NA	[Signature]
51	Mfg	Bhendra Singh Yadav	Male	1-Dec-78	25-Sep-17	SR. CHEMIST - CMJ	AGREEMENTAL	14-Sep-22	Fit	GRW	BP, PR, RR, GE	NA	NA	NA	[Signature]
53	Engg	KAMLESH VERMA	Male	16-Feb-89	25-Oct-17	FITTER	AGREEMENTAL	14-Sep-22	Fit	GRW	BP, PR, RR, GE	NA	NA	NA	[Signature]
54	Mfg	RAM KISHOR CHAUHAN	Male	21-Jul-92	1-Dec-17	Assistant Officer - CMJ	AGREEMENTAL	14-Sep-22	Fit	AW	BP, PR, RR, GE	NA	NA	NA	[Signature]

HEALTH REGISTER

Sl. No.	Name of department	Name of Worker/Staff	Sex	Age	Date of employment	Nature of job or occupation	How material production likely to be exposed	Date	Result Fit/Unfit	Sings & symptoms observed during examination with reason in detail	Nature of test & result thereof	If discharge unfit work state period of absence with reason and in detail	Whether certificate of unfit-ness issued to worker	Re-certified fit to resume duty on	Signature of the certifying surgeon with date
1															
45	Mfg	AJESH KUMAR SINCH	Male	18-Mar-80	30-Apr-18	SR. OFFICER - WTP	AGREEMENTAL	14-Sep-22	Fit	GEW	BP, PR, RR, GE	NA	NA	NA	
50	Mfg	SANDEEP KUMAR PANDEY	Male	20-Oct-90	11-May-19	S. Chemist - CPU	AGREEMENTAL	14-Sep-22	Fit	GEW	BP, PR, RR, GE	NA	NA	NA	
57	Mfg	Kuldeep Srivastava	Male	5-Mar-79	25-Nov-19	Dy. Manager - Production	AGREEMENTAL	14-Sep-22	Fit	WADDM	BP, PR, RR, GE	NA	NA	NA	
38	Gen & Adm	Aashir Kumar Srivastava	Male	6-Jan-74	2-Jan-21	Officer - Stores	AGREEMENTAL	14-Sep-22	Fit	R-N	BP, PR, RR, GE	NA	NA	NA	
50	Engg	DINESH KUMAR SRIVASTAVA	Male	1-Dec-68	1-Jul-99	SWITCH BOARD ATTENDANT CUM STEELMAN CUM PLANT OPERATOR	PERMANENT	14-Sep-22	Fit	A-N	BP, PR, RR, GE	NA	NA	NA	
60	Mfg	DEO NANDAN PRASAD	Male	31-Dec-65	1-Jul-99	STEELMAN CUM PLANT OPERATOR	PERMANENT	14-Sep-22	Fit	GEW	BP, PR, RR, GE	NA	NA	NA	
61	Engg	JITENDRA KUMAR SRIVASTAVA	Male	22-Jan-70	1-Jul-99	SWITCH BOARD ATTENDANT CUM	PERMANENT	14-Sep-22	Fit	A-N	BP, PR, RR, GE	NA	NA	NA	
62	Engg	ANAND KUMAR SRIVASTAVA	Male	2-Jul-67	1-Jul-99	BOILER ATTENDANT - 2ND CLASS	PERMANENT	14-Sep-22	Fit	A-N	BP, PR, RR, GE	NA	NA	NA	
63	Engg	VUAY KUMAR MISHRA	Male	1-May-73	1-Jul-99	MANUFACTURING ASSISTANT	PERMANENT	14-Sep-22	Fit	WADDM	BP, PR, RR, GE	NA	NA	NA	
64	Mfg	SUREYA PRASAD SHUKLA	Male	8-Dec-65	1-Jul-99	YEASTMAN	PERMANENT	21-Sep-22	Fit	WADDM	BP, PR, RR, GE	NA	NA	NA	
65	Engg	UTTAMLAL	Male	30-Jan-77	1-Oct-01	PIPE MAN	PERMANENT	21-Sep-22	Fit	WADDM	BP, PR, RR, GE	NA	NA	NA	
66	Engg	BRIJESH KUMAR TIJAKUR	Male	16-Jan-78	1-Oct-01	PIPE MAN	PERMANENT	21-Sep-22	Fit	WADDM	BP, PR, RR, GE	NA	NA	NA	
67	Engg	BRJESH KUMAR	Male	1-Apr-72	26-Jan-01	Engine Driver cum SBA	PERMANENT	21-Sep-22	Fit	WADDM	BP, PR, RR, GE	NA	NA	NA	
68	Engg	SUSHIL KUMAR SRIVASTAV	Male	1-Jul-65	23-May-05	ASSISTANT FITTER	PERMANENT	21-Sep-22	Fit	WADDM	BP, PR, RR, GE	NA	NA	NA	
69	Engg	MOHD. HUMAYTUN KAHAR	Male	5-Jan-06	1-Oct-05	BOILER ATTENDANT	PERMANENT	28-Sep-22	Fit	MAD	BP, PR, RR, GE	NA	NA	NA	
70	Gen & Adm	SANTOSH KUMAR SINGH	Male	8-Sep-78	1-Dec-07	ALCOHOL TRANSFER ATTENDANT	PERMANENT	28-Sep-22	Fit	MAD	BP, PR, RR, GE	NA	NA	NA	
71	Mfg	UTTAM.	Male	2-Dec-78	1-Dec-07	SITLIMAN	PERMANENT	28-Sep-22	Fit	MAD	BP, PR, RR, GE	NA	NA	NA	

HEALTH REGISTER

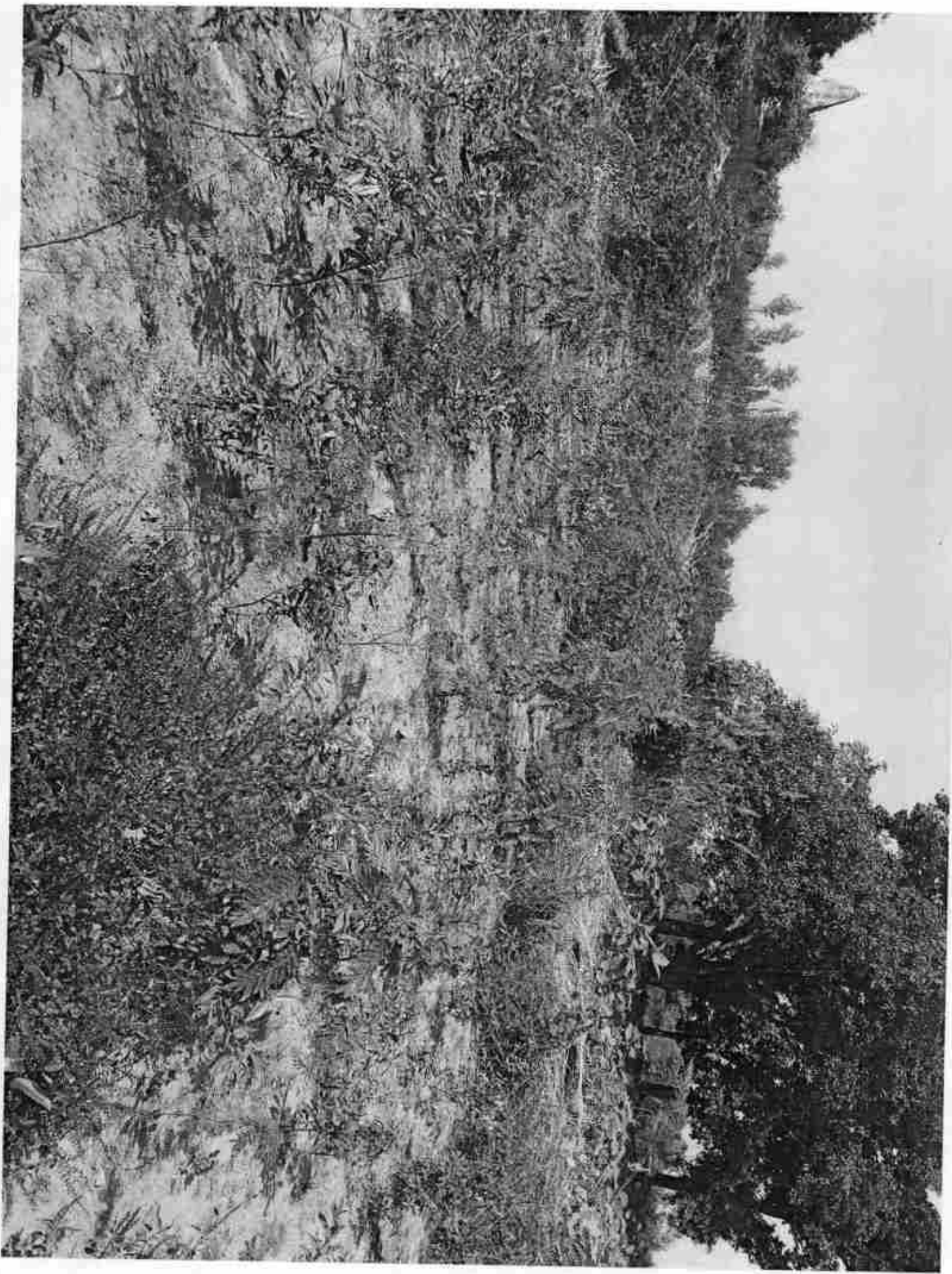
1	2	3	4	5	6	8	9	10	11	12	13	14	15	16	17
Sl. No.	Name of department	Name of Worker/Staff	Sex	Age	Date of employment	Nature of job or occupation	Raw material production likely to be exposed	Date	Result Fit / Unfit	Symptoms observed during examination with reason in detail	Nature of test & result thereof	If discharge until state of period of suspension with reason and in detail	Whether certificate of unit - loss issued to worker	Re-certified fit to resume duty on	Signature of the certifying surgeon with date
71	Mfg	VIJAY PRATAP SINGH	Male	12-Feb-80	1-Dec-07	PUMP MAN	PERMANENT	28-Sep-22	Fit	GE/US	BP, PR, RR, GE	NA	NA	NA	28/9/22
73	Mfg	RAJENDRA KUMAR GAUTAM	Male	10-May-75	1-Dec-07	PUMP MAN	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
74	Gen & Adm	RAM LALIT	Male	13-May-82	1-Dec-07	PUMP MAN	PERMANENT	28-Sep-22	Fit	GE/US	BP, PR, RR, GE	NA	NA	NA	28/9/22
75	Mfg	NAJENDRA KUMAR TIWARI	Male	1-Jul-71	1-Dec-07	ALCOHOL TRANSFER ATTENDENT	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
76	Mfg	NAJEAR SINGH	Male	1-May-78	1-Dec-07	Evaporator Operator / Pump Man	PERMANENT	28-Sep-22	Fit	Wooody	BP, PR, RR, GE	NA	NA	NA	28/9/22
77	Mfg	OM PRAKASH VAIDAV	Male	16-Apr-72	1-Dec-07	Evaporator Operator / Pump Man	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
78	Engg	KESHAV RAM	Male	18-Dec-75	1-Dec-07	Foreman	PERMANENT	28-Sep-22	Fit	Wooody	BP, PR, RR, GE	NA	NA	NA	28/9/22
79	Engg	DEEP NARAYAN	Male	6-Apr-82	1-Dec-07	MAZDOKOR (BOILER)	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
80	Mfg	DAYA RAM	Male	2-Apr-69	1-Dec-07	MAZDOKOR	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
81	Engg	CHANDRA SIEKHAR YADAV	Male	15-Jan-79	1-Dec-07	BOILER ATTENDANT	PERMANENT	28-Sep-22	Fit	WXP	BP, PR, RR, GE	NA	NA	NA	28/9/22
82	Mfg	BABOO RAM	Male	1-Jun-67	1-Dec-07	MAZDOKOR	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
83	Mfg	BIFAI	Male	4-Aug-75	1-Dec-07	Yeastman, Helper	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
84	Engg	BRU RAJ VAIDAV	Male	10-Jun-76	1-Dec-07	ENGINE DRIVER CUM SVA	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
85	Mfg	ANGAD PRASAD	Male	15-Apr-72	1-Dec-07	PUMP MAN	PERMANENT	28-Sep-22	Fit	GE/US	BP, PR, RR, GE	NA	NA	NA	28/9/22
86	Engg	AVADHESH KUMAR SRIVASTAV	Male	27-Nov-67	1-Dec-07	PIRE MAZDOKOR	PERMANENT	28-Sep-22	Fit	A-W	BP, PR, RR, GE	NA	NA	NA	28/9/22
87	Mfg	SHIV NARAYAN MISRA	Male	10-Jun-83	1-Mar-08	YEASTMAN	PERMANENT	28-Sep-22	Fit	Wooody	BP, PR, RR, GE	NA	NA	NA	28/9/22
88	Mfg	BALRAM TIWARI	Male	15-Jul-76	1-Aug-08	Pump Operator	PERMANENT	28-Sep-22	Fit	GE/US	BP, PR, RR, GE	NA	NA	NA	28/9/22

HEALTH REGISTER

Sl. No.	Name of department	Name of Worker/Staff	Sex	Age	Date of employment	Nature of job or occupation	Rawmaterial production likely to be exposed	Date	Result For/With	Signs & symptoms observed during examination with reason in detail	Nature of test & result thereof	If discharge on/with period of suspension in with reason and in detail	Whether certificate of unfit-ness issued to worker	Re-certified in to resume duty on	Signature of the certifying surgeon with date
1															
89	Engg	MANISH KUMAR TIWARI	Male	15-Jun-86	1-Aug-08	BIO GAS ATTENDANT	PERMANENT	28-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
90	Mfg	RAJDEV SHYAM SINGH	Male	2-Aug-66	1-Aug-08	VEASTMAN	PERMANENT	28-Sep-22	Fit	NAD	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
91	Engg	VINOD KUMAR PANDEY	Male	31-Jul-76	1-Nov-08	ENGINE DRIVER CLM SBA	PERMANENT	28-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
92	Gen & Adm	SURENDRA CHAUHAN	Male	1-Jan-70	1-Apr-09	NAZDOOR	PERMANENT	28-Sep-22	Fit	NAD	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
93	Engg	RATNESHVAR KUMAR	Male	1-Jul-63	1-Nov-09	Engine Driver cum SBA	PERMANENT	28-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
94	Mfg	GONAKH NATH SINGH	Male	5-Dec-72	1-Nov-09	SUPERVISOR	PERMANENT	28-Sep-22	Fit	NAD	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
95	Mfg	RAM ABHILASH PATHAK	Male	1-Jan-69	1-Nov-09	Evaporator Operator	PERMANENT	28-Sep-22	Fit	GW	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
96	Mfg	RAJESH KUMAR SINGH	Male	13-Jul-79	1-Nov-09	Supervisor	PERMANENT	28-Sep-22	Fit	WASH	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
97	Mfg	Dinesh Kumar Singh	Male	3-Mar-76	1-Apr-16	Supervisor	PERMANENT	28-Sep-22	Fit	WASH	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>
98	Mfg	Raj Kumar Pandey	Male	10-Dec-80	1-Apr-16	SUPERVISOR	PERMANENT	28-Sep-22	Fit	WASH	BP, PR, RR, GE	NA	NA	NA	<i>[Signature]</i>

Annexure – 11 - Photographs of green belt





**Annexure-12: Compliance Report of Point Mentioned
in Public Hearing**

बलरामपुर चीनी मिल्स लि० यूनिट-बमनान(केमिकल डिवीजन), जिला गोण्डा द्वारा स्थापित आसवनी इकाई की क्षमता 80 के०एल० से बढ़ाकर 100के०एल० किये जाने हेतु लोक सुनवाई का कार्यवृत्त व उसको लागू करने के सम्बन्ध में दिशानिर्देश :-

जनता द्वारा दिये गये सुझाव	उद्योग द्वारा उनका क्रियान्वयन
1. वायु प्रदूषण के सम्बन्ध में	उद्योग द्वारा चिमनी के सम्बद्ध बैग फिल्टर की स्थापना की गयी है जिससे वायु में उत्सर्जित फ्लूगैस की गुणवत्ता मानकों के अनुरूप रहती है तथा बैग फिल्टर से एकत्र किया गया फ्लाईऐस अच्छी पोटास की मात्रा होने के कारण कृषकों द्वारा खेतों में खाद के रूप में प्रयोग में लिया जाता है।
2. जल प्रदूषण की समस्या	उद्योग द्वारा शून्य उत्स्रावह की दशा को बनाये रखने के लिये मल्टी इफेक्ट इवापरेटर द्वारा स्पेण्ट वाश को सॉद्रित कर ब्वायलर में बेगास के साथ मिलाकर जला दिया जाता है जिससे किसी प्रकार के जल प्रदूषण होने की संभावना नहीं रहती है। साथ ही उद्योग में जनित अन्य कम तीव्रता वाले प्रदूषित उत्स्रावह को उत्स्रावह शुद्धीकरण संयंत्र में शुद्धीकृत कर पुनः उपयोग में ले लिया जाता है।
3. राख को आसपास उड़ना	उद्योग द्वारा राख प्रबन्धन की समुचित व्यवस्था की गयी है जिससे आसपास किसी प्रकार की राख की समस्या न उत्पन्न हो।
4. विस्तारीकरण के दौरान वृक्षों के कटाये जाने के सम्बन्ध में।	चूँकि उद्योग का विस्तारीकरण उसके पुराने परिसर में ही किया जा रहा है, अंतएव वृक्षों की कटान कम से कम करने की आवश्यकता पडी है तथापि उद्योग द्वारा रिक्त पड़े स्थानों पर विस्तारीकरण का कार्य किया गया है और आगे भी करते रहेंगे।
5. श्रमिकों के साथ दुर्घटना के सम्बन्ध में	उद्योग में स्वयं का चिकित्सालय प्राथमिक उपचार हेतु उपलब्ध है, साथ ही चिकित्सालय में एक एम्बुलेंस की भी व्यवस्था है। श्रमिकों के साथ किसी प्रकार की दुर्घटना होने पर प्राथमिक उपचार के साथ-साथ जिला चिकित्सालय में भी फौवदी के नियमानुसार उचित उपचार कराया जाता है।

Annexure-13: Detail of ESC Activities

**BALRAMPUR CHINI MILLS LTD UNIT - BABHNAN (CHEMICAL DIVISION)
ACTIVITIES UNDER ENTERPRISE SOCIAL COMMITMENT FOR YEAR 2022**

Sr. No.	Category	Particulars	Till Date FY 21-22	Remarks
			Rs (In Lac)	
A	Health & Sanitation	Hand pump (in radius of 10 KM)	32.2	
		Medical Health camp for Men, Women & Children-2 camps per village p.a -CHC of Chappiya Block	5	
		Upgradation of Local PHC with Equipment & Infrastructure (Village Panchayat)	3	
		Creation of Dispensary Infrastructure in nearby Villages	3	Work Executed
		Community Toilet (3 Nos. + Soakpit + Water tank + Handpump) (Village within 10 KM radius)		
		Community Toilet -2 Nos -Sulabh Sauchalay	20	
		Tractor driven soakpit and sewage cleaning machine with tractor		
		Mosquito Net/ Blankets to Poor villagers (In Gondia / Basti District)		
		Primary School Bench & Table (School and Hostels -15 Km Radius of School)	6	
		Renovation of School -04 Nos. covering plastering, pictorial colouring , sports kit, science kit, library and boundary wall, Teacher training program and smart classes (in radius of 10 KM)	20	Work Executed
B	Livelihood & Education	Sewing Machine Training for 35 women through Usha Enterprises as per their program (10 Km radius of Factory)	12	
		Renovation and modernization of cremation place 10 Km radius of Factory)	10	
		Village Drainage and water shed management & Road Development , Adopted Pond under CGWA (Village Sadarpur , Makoia , Babhni Mahragaura)	60	
		Solar Light 10 Villages surrounding to the Factory with approval for Rural Development Authority	15	
		Public Places / New/ Upgradation Building Structure -(10 Km radius of Factory)	5	Work Executed
		Renovation of Places of Worship (10 Km Radius of Factory Campus)	1	
		RO/ Water Purifier in Govt Offices/ Public Domain (15 Km Radius of Factory Campus)	2	
		Plantation of trees (10 Villages and School, Ponds)	5	
		Contingency and hiring NGO's cost 5%		
		TOTAL COST		199.2
Note-		We have completed Total ESC Budget Rs 360 Lac as per EC Condition in 5 year period from Mar 2017 to Mar 2022		

Annexure-14: CGWA NOC



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)
Ministry of Jal Shakti
Government of Uttar Pradesh

Form 8 (E)

[See rules 15(2)]

(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/
COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: REG039136

VALID FROM 12/10/2021 TO 11/10/2026

Registration No.: 202109000198

Name of the Owner	MK GAUR		
Address of the Applicant	Babhnani, Tehsil - Marhapur, Dist - Gonda	Application Form Serial No.	GND0221RIN0018
Date of Submission	07/09/2021	Specimen Signature	
Company Name	SALRAMPUR CHINIMILLS LTD. BASHNAN CHEMICAL DIVISION	Company Address	Unit-Babhnani (Chemical Div.) Post Babhnani, Dist G
Location Particulars			
District	Gonda	Block	CHAPIA
Plot No./Khasra No.	Existing Land details attached	Municipality/Corporation	No
Ward No./Holding No.			NA
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/04/2004		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	118.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	41.00
Operational Device	Electric Motor	Rate of Withdrawal (m ³ /hr.)	150.00
Date of Energization (In Case of Electric Pump)		01/04/2004	
Maximum Allowable Rate of Withdrawal (m ³ /hr.)	150.00	Maximum Allowable Running Hours Per Day:	4.00
Maximum Allowable Annual Extraction of Ground Water:			210000
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	CGWA/NOC/IND/REN/1/2019/5578 is valid upto date 01/10/2021		
Against Case			

This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (3) for extraction of ground water at a rate not exceeding that as at Sl. (3), for Running Hours per day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated hereafter.

Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at Sl. (2) and (3) of this certificate shall be made without permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meter conforming to BIS: IS standard having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters.
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) In case, any of the particulars / information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell /tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water sample for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
 - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
 - The depth of the piezometer should be same as in case of the pumping well from which ground water is being abstracted. If, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
 - No. of piezometers to be constructed & Types of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No. of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm, the reported measurement should be given in meter up to two decimal
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used accurately.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone tapped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got analysed from NABL approved lab. Besides, one sample (1 lt. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site-specific requirement regarding safety and access for measurement may be taken care of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
- **SPECIFIC CONDITIONS:**
 - (A) **For Industrial User:** No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
 - iii) All industries abstracting ground water in excess of 100 m³/day shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation of Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of it same to Ground Water Department, Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
 - iv) Construction of observation wells (piezometer/s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the proponent. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, UP.
 - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dye, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
 - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
 - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
 - (B) **Infrastructural User:** The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructural projects that require desalinating, proponent shall be required to carry out regular monitoring of desalinating discharge rate (using a digital water meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³ /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date :24/12/2021

Place Gonda

This certificate is electronically generated and does not require digital signature



GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti

Government of Uttar Pradesh

Form 8 (E)

[See rules 15(2)]

(RENEWAL OF AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER)

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: REG035125

VALID FROM 12/10/2021 TO 11/10/2026

Registration No.: 202109000309

Name of the Owner	MK GAUR		
Address of the Applicant	Bahnan, Tehsil - Manikpur, Dist - Gonda	Application Form Serial No.	GNOA0021RIN0019
Date of Submission	11/09/2021	Specimen Signature	
Company Name	BALRAMPUR CHINIMILLS LTD BAHNAN CHEMICAL DIVISION	Company Address	Unit Bahnan(Chemical Div.),PO Bahnan,Distt Gonda

Location Particulars

District	Gonda	Block	CHAPIA
Plot No./Khata No.	Existing Land details attached	Municipality/Corporation	No
Ward No./Holding No.			NA

Particular of the Existing Well and Pumping Device

Date of Construction/Sinking of the Well	01/04/2004		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	118.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	41.00
Operational Device	Electric Motor	Rate of Withdrawal (m ³ /hr.)	100.00
Date of Energization (In Case of Electric Pump)	01/04/2004		
Maximum Allowable Rate of Withdrawal (m ³ /hr.)	100.00	Maximum Allowable Running Hours Per Day:	3.00
Maximum Allowable Annual Extraction of Ground Water:	105000		
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	CGWA/NOC/IND/REN/1/2019/0578 is valid upto date 01/10/2021.		
Against Case			

This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at Sl. (2) for extraction of ground water at a rate not exceeding that as shown at Sl. (3), for running hours per day as shown at Sl. (3k), and for maximum allowable annual extraction of ground water as shown at Sl. (3k) and is valid subject to the observance of the conditions stated overleaf.

Conditions

- (1) In case of any change of ownership of the proposed well, fresh authorization has to be obtained.
- (2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this authorization.
- (3) For the purpose of measuring and recording the quantity of ground water extracted, every said user shall affix digital water flow meters (conforming to BIS: IS standard having telemetry system in the abstraction structure, which record rate and quantum of extraction, at outlet of pumping devices and it shall be presumed that the quantity recorded by the meter has been extracted by the said user, until the contrary is proved. The rate of extraction of ground water from the well as shown in item 3(k) shall not exceed to the recorded rate from water meters.
- (4) The concerned Authority reserves the right to stop extraction of ground water from the well due to quality hazards or any other reasons, if the situation so demands.
- (5) In case of any change of ownership of the existing well, fresh registration has to be obtained.
- (6) No change of location, design, rate of withdrawal and pumping device in respect of the existing well as indicated at Sl. (2) and (3) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this registration.
- (7) In case, any of the particulars / information furnished by the applicant in his application for issuance of this registration is found to be incorrect during verification at any subsequent stage, this registration is liable for cancellation.
- (8) The Certificate of Authorization/ NOC shall be valid for a period of five years from the date of issue. The applicant shall have to apply for renewal through a fresh application, at least ninety days prior to expiry of its validity.
- (9) Construction of piezometers and installation of digital water level recorders with telemetry shall be mandatory for user. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. The data, obtained from digital water level recorders shall be made available to this office on monthly basis.
- (10) Guidelines for Installation of Piezometers and their Monitoring
- Piezometer is a borewell tube well used only for measuring the water level by lowering the tape/ sounder or automatic water level measuring equipment. It is also used to take water samples for water quality testing whenever needed. General guidelines for installation of piezometers are as follows for compliance of NOC:
 - The piezometer is to be installed/constructed at the minimum of 50 m distance from the pumping well through which ground water is being withdrawn. The diameter of the piezometer should be about 4" to 6".
 - The depth of the piezometer should be same as in case of the pumping well from which ground water is being abstracted, if, more than one piezometer are installed the second piezometer should monitor the shallow ground water regime. It will facilitate shallow as well as deeper ground water aquifer monitoring.
 - No. of piezometers to be constructed & Type of water level monitoring mechanism shall be as per below table:

S.No	Quantum of Ground water withdrawal (cum/day)	No. of piezometers required	Monitoring Mechanism	
			Manual	DWLR with Telemetry
1	< 10	0	0	0
2	11 - 50	1	1	0
3	50- 500	1	0	1
4	> 500	2	0	2

- The measuring frequency should be monthly and accuracy of measurement should be up to cm, the reported measurement should be given in meter up to two decimal.
- For measurement of water level sounder or automatic water level recorder (AWLR)/ Digital Automatic water level recorder (DWLR) with telemetry system should be used with accuracy.
- The measurement of water level in piezometer should be taken, only after the pumping from the surrounding tube wells has been stopped for about four to six hours.
- All the details regarding coordinates, reduced level (with respect to mean level), depth, zone tapped and assembly lowered should be provided for bringing the piezometer into the Hydrograph Monitoring System for Ground Water Department, Uttar Pradesh, and for its validation.
- The ground water quality has to be monitored twice in a year during pre-monsoon (May/June) and post-monsoon (October/November) periods. Quality may be got anal. from NABL approved lab. Besides, one sample (1 lit. capacity bottle) to the concerned Director, Ground Water Department, Uttar Pradesh, for chemical analysis.
- A Permanent display board should be installed at piezometer/Tube wells site for providing the location, piezometer/ tube well number, depth and zone tapped of piezometer/tube well for standard referencing and identification.
- Any other site-specific requirement regarding safety and access for measurement may be taken care of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars / information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.

SPECIFIC CONDITIONS:

- (A) For Industrial User: No Objection Certificate for ground water extraction by industries shall be granted subject to the following specific conditions:
 - i) No Objection Certificate shall be granted only in such cases where local government water supply agencies are not able to supply the desired quantity of water.
 - ii) All industries shall be required to adopt latest water efficient technologies so as to reduce dependence on ground water resources.
 - iii) All industries abstracting ground water in excess of 100 m³/day shall be required to undertake annual water audit through Confederation of Indian Industries (CII)/ Federation of Indian Chamber of Commerce and Industry (FICCI)/ National Productivity Council (NPC) certified auditors and submit audit reports within three months of completion of it same to Ground Water Department, Uttar Pradesh. All such industries shall be required to reduce their ground water use by at least 20% over the next five years through appropriate means.
 - iv) Construction of observation wells (piezometer)(s) within the premises and installation of appropriate water level monitoring mechanism as mentioned in General Condition no.10 shall be mandatory for industries drawing/ proposing to draw more than 10 m³/day of ground water and. Monitoring of water level shall be done by the piezometer. The piezometer (observation well) shall be constructed at a minimum distance of 50 m from the bore well/production well. Depth and aquifer zone tapped in the piezometer shall be the same as that of the pumping well/ wells. Monthly water level data shall be submitted online to the Ground Water Department, U.P.
 - v) The proponent shall be required to adopt roof top rain water harvesting/ recharge in the project premises. Industries which are likely to pollute ground water (chemical, pharmaceutical, dyes, pigments, paints, textiles, tannery, pesticides/ insecticides, fertilizers, slaughter house, explosives etc.) shall store the harvested rain water in surface storage tanks for use in the industry.
 - vi) Injection of treated/ untreated waste water into aquifer system is strictly prohibited.
 - vii) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, other hazardous units etc. per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution.
- (B) Infrastructural User: The No Objection Certificate for ground water abstraction will be granted subject to the following specific conditions:
 - i) In case of infrastructure projects that require dewatering, proponent shall be required to carry out regular monitoring of dewatering discharge rate (using a digital water meter) and submit the data online to Ground Water Department, UP as applicable. Monitoring records and results should be retained by the proponent for two years, for inspection or reporting as required by District Ground Water Management Council.
 - ii) Installation of Sewage Treatment Plants (STP) shall be mandatory for new projects, where ground water requirement is more than 20 m³/day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.

Date 24/12/2021

Place Gonda

This certificate is electronically generated and does not require digital signature

Annexure-15: Environment Management Cell

DETAILS OF ENVIRONMENTAL MANAGEMENT CELL OF BABHNAN DISTILLERY

Sr.No	NAME	DESIGNATION	DUTIES PERFORMED
1	Shri Ajay Dubey	Chief General Manager	Overall Control
2	Dr. M.K Gaur	Addl. General Manager	Process control of Distillery, Functional control and overall Environmental control
3	Shri Saurabh Srivastava	Manager (Environment)	To ensure that the compliance mechanism is fully and effectively operational. Pollution control and mitigation measures as per the EMP, EC, CTE and CTO.
4	Shri Santosh Dwivedi	Asst. Manager (ETP)	Solid Waste Management and Green Belt Development
5	Shri R.K. Singh	Security Officer	Control of Safety Activities

List of Equipment available in Laboratory

1. pH Meter
2. Conductivity Meter
3. TDS Meter
4. Magnetic Stirrer
5. Centrifuge Machine
6. Oven
7. Refrigerator
8. BOD Incubator
9. Muffle Furnace
10. Moisture Apparatus
11. Weighing Balance (Electronic)

**Annexure-16: Details of Environmental Management
/ Pollution Control Measures**

COMPLIANCE OF ENVIRONMENTAL MANAGEMENT PLAN

<u>Sr. No.</u>	<u>Particulars</u>	<u>Environmental Management Plan</u>	<u>Compliance</u>
1.	Air Environment	<p>Stack will be provided with a Bag Filter to maintain PM emissions below permissible limits as per CPCB. To reduce fugitive dust emission proper green belt and water sprinkling will be provided.</p> <ul style="list-style-type: none"> ❖ Proper maintenance of vehicles will be done regularly. ❖ CPCB guidelines for Fugitive dust emission control will be followed. ❖ Green Belt will be developed along the plant premises as dust preventive barrier. ❖ Regular air quality monitoring will be carried as per CPCB/SPCB norms. 	<ul style="list-style-type: none"> ➤ 01 number stack of height 80 m, made up of RCC has been provided, Bag filter of efficiency 99.9% is installed to reduce the SPM emission below permissible limit as per CPCB. ➤ To avoid fugitive emission water is being sprinkled to suppress dust at source. ➤ Fly ash transport is being done through covered truck or tractor. ➤ 33% green belt has been developed and same shall be maintained. ➤ Ambient and stack monitoring has been carried out once in three months by third party and online monitoring equipment has been provided at stack and connected with CPCB server.
2.	Water Environment	<p>Spent Wash Treatment Strategy :</p> <ol style="list-style-type: none"> 1. <u>Spent Wash Treatment :</u> Spent wash first connected in MEE and the MEE reject will be incinerated in slop fired boiler of capacity 45.0 TPH. 2. <u>Other Effluent : 950.0 KLD</u> (Includes MEE condensate, below down and Spent less & floor washing) will be 	<ul style="list-style-type: none"> ➤ Spent Wash Treatment : Total spent wash generated is approx. 785.0 KLD which is first concentrated in MEE of capacity 1500.0 M³/day and concentrate (175 KLD) from MEE is being fired in boiler along with Bagasse. ➤ Other Effluent 950.0 KLD (it includes MEE condensate, Blow

		<p>treated in Secondary Effluent Treatment Plant & 100% recycling will be done.</p> <p>Domestic Waste : 6.0 KLD Will be treated in separate soak pit and septic tank.</p>	<p>downs, spent less and floor washing) is treated condensate polishing unit, CPU comprises of Equalization, Anaerobic digester, primary clarifier, Aeration, secondary clarifier and Reverse Osmosis. R.O. reject is being concentrate in MEE. Treated water from CPU is being utilized in process cooling, floor washing.</p> <p>➤ Domestic waste water is being is being disposed through sewerage treatment plant.</p>
3	Solid/Hazardous Waste Environment	<p>Solid Waste generation from different process</p> <ol style="list-style-type: none"> 1. Fly ash generation 20.21 MT/day <u>Disposal</u> : Will be used as manure. 2. Fermented Sludge : 4.15 MT/Day <u>Disposal</u> : Will be used as manure. 	<p>➤ Fly Ash : 20.21 MT/Day ➤ Fermenter Sludge : 4.15 MT/Day Fly Ash is mixed with fermenter sludge, utilized as manure in the field. Complete management plan of Fly ash is enclosed as Annexure</p>

4.	Noise Environment	<ul style="list-style-type: none"> ➤ Proper maintenance, oiling and greasing of machines at regular intervals will be done to reduce generation of noise. ➤ Personal Protective Equipment like earplugs and earmuffs will be provided to the workers exposed to high noise level. ➤ Green Belt development (plantation of dense trees across the boundary) will help in reducing noise levels in the plant as a result of attenuation of noise generated due to plant operations, and transportation. ➤ Acounstic enclosure for DG Sets would be used. ➤ Regular monitoring of noise level will be carried out. 	<ul style="list-style-type: none"> ➤ Proper maintenance oiling and greasing of machine is being done at regular interval. ➤ PPE like ear plug and earmuff is being provided to the workers, working at high noise zone. ➤ 33% green belt is being provided which help in reducing noise level in the plant. ➤ Acoustic enclosure is being provided in the DG Set. ➤ Noise monitoring is being carried out once in three months by third party.
5.	Odour Management	<ul style="list-style-type: none"> ➤ The remedial measures will be taken such as better housekeeping by regular cleaning of drums. 	<ul style="list-style-type: none"> ➤ Proper housekeeping and regular cleaning and washing is being in practice to reduce order.

6.	Green Belt	<ul style="list-style-type: none"> ➤ 5.87 hectares will be provided as green belt. ➤ The green belt developed especially around dust generating areas like bagasse yard, conveyors of raw material handling, cooler discharge, magnetic separators and solid waste disposal area are densely covered. 	<ul style="list-style-type: none"> ➤ Green belt: 5.87 Hectare is being provided and approx around 6000 trees has already been planted in the area of 5.87 ha which is 33% of plant area. ➤ Three tier green belts have been provided.
7.	Rain water harvesting	<ul style="list-style-type: none"> ➤ Five Number of pit will be provided for roof top rain water harvesting. 	<ul style="list-style-type: none"> ➤ As the water level in the area is below 2.0 bgl hence rain water discharge system is not feasible in the area. In place of rain water harvesting pit, we have provided rain water storage tank. Rain water collected in this tank and utilized in process, cooling and washing.