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CIN:
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2020PTC128325



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Date: 02.01.2024

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

Subject: Six monthly compliance reports of the conditions of Environmental Clearance for Proposed 125 KLD Grain based Distillery, 25 KLPD Malt Spirit Plant and 4.5 MW Co-generation Power Plant at Village:Chiraura, Tehsil:Akbarpur, District: Kanpur Dehat (UP).by M/s Aarti Distilleries Private Limited (EC transferred from Rajasthan Liquors Limited) for the period of April, 2023 to September, 2023.

EC Ref. No.: J-11011/58/2018-IA-II (I), dated 18th September, 2019, EC transferred from Rajasthan Liquors Limited to Aarti Distilleries Private Limited on 14th September 2020.

Reg: Submission of Six-Monthly Compliance Report for Period of April, 2023 to September, 2023.

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 Proposed 125 KLD Grain based Distillery, 25 KLPD Malt Spirit Plant and 4.5 MW Co-Generation Power Plant at Village: Chiraura, Tehsil: Akbarpur, District: Kanpur Dehat by M/s Aarti Distilleries Private Limited (EC transferred from Rajasthan Liquors Limited), along with annexures as follows:

1. Copy of CTO
2. Copy of No Increase in Pollution Load
3. Copy of EC
4. Copy of Hazardous Waste Authorization
5. Ground Water NOC from UPPGWD
6. Ground Water Quality Monitoring report.
7. Green Belt photographs
8. Online Monitoring System Photographs
9. Environmental Monitoring reports
10. Rain Water Harvesting Structure Photographs
11. The copy of published information (in newspapers) regarding grant of Environmental Clearance

Thanking You,
Yours sincerely

Authorized Signatory

M/s Aarti Distilleries Private Limited

Village Chiraura, Tehsil Akbarpur, District Kanpur Dehat (UP)



COMPLIANCE REPORT

**AS PER CONDITIONS STIPULATED
IN THE ENVIRONMENTAL CLEARANCE
J - 11011/58/2018 - IA II (I), dated 18th September, 2019**

**Six Monthly Compliance Report
(April, 2023 to September, 2023)**

**FOR
SETTING UP GRAIN BASED
DISTILLERY of 125 KLD,
MALT SPIRIT PLANT OF 25 KLD AND
CO-GENERATION POWER PLANT
OF 4.5 MW**

**AT
Village: Chiraura, Tehsil: Akbarpur,
District: Kanpur Dehat (U.P.)**

**SUBMITTED BY
M/s Aarti Distilleries Private Limited**

(EC transferred from Rajasthan Liquors Limited)

**Registered Address First Floor,
7/22D, Tilak Nagar,
Kanpur, Uttar Pradesh - 208002**

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CHAPTER No. 01: INTRODUCTION AND PROJECT DESCRIPTION

Six monthly environmental compliance/status report is submitted for Setting up Grain based Distillery of 125 KLD, Malt Spirit Plant of 25 KLD and Co-generation Power Plant of 4.5 MW by **M/s Aarti Distilleries Private Limited** for April, 2023 to September, 2023. The Project is located at Village: Chiraura, Tehsil: Akbarpur, District: Kanpur Dehat (U.P.). Prior Environment Clearance was obtained from Ministry of Environment & Forests (MoEFCC) wide letter no.: **J-11011/58/2018-IA-II (I), dated 18th September, 2019**. Consent to Operate for both (Air & Water) has already been obtained for the project Vide Ref No. **152527/UPPCB/KanpurDehat(UPPCBRO)/CTO/both/KANPURDEHAT/2022, dated 24/03/2022** for validity upto 31/12/2023. Copy of CTO is attached as **Annexure-1**

Unit obtained the “No increase in pollution load “certificate from Uttar Pradesh Pollution Control Board vide letter no: 172/UPHOC2/EIA/KANPUR DEHAT/2022 dated:- 12/12/2022 for raw material mix. 100 % Grains is utilised as feedstock for alcohol production. Copy of No Increase in Pollution Load certificate is attached as **Annexure-2**.

Environmental mitigation measures described in Environmental Management Plan are being implemented construction phase and operation phase. **M/s Aarti Distilleries Private Limited (old name M/s Rajasthan Liquors Limited)**. Management team is fully conscious about Environmental Management and enhancing green belt development in project surrounding area.

Six monthly compliance/status reports for **April, 2023 to September, 2023** 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 No. 02:

COMPLIANCE OF STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE

Name of the Project: Setting up Grain based Distillery of 125 KLPD, Malt Spirit Plant of 25 KLPD and Co-generation Power Plant of 4.5 MW at Village: Chiraura, Tehsil: Akbarpur, District: Kanpur Dehat (U.P.) by **M/s Aarti Distilleries Private Limited (old name M/s Rajasthan Liquors Limited).**

Clearance Letter No: J-11011/58/2018-IA-II (I), dated 18th September, 2018

Period of Compliance Report: (April, 2023 to September, 2023)

A - SPECIFIC CONDITIONS

Sr. No	Conditions	Reply
i-	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.	Condition Noted. Currently project is in operation phase, 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 has been obtained from UPPCB. enclosed as Annexure- 1 No increase in pollution load is attached as Annexure- 2.
ii-	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	Noted and is being complied. Spent wash generated is being first fed into the decanter for solid separation then supernatant is being concentrated in MEE. Concentrate from MEE is being mixed with wet cake of decanter and converted into the Cattle feed.
iii-	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.	Condition Noted and Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 is obtained as Solid Waste Management Rules, 2016, Copy of Hazardous Waste Authorization is attached as Annexure- 4

iv-	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.	Water sprinkling is being done on road used for transportation of raw material.
v-	Coal shall not be used as fuel in boiler.	Condition Noted
vi-	Total fresh water requirement shall not exceed 1354 cum/day proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	Noted and prior permission from Ground Water Department of Uttar Pradesh has been obtained. Copy of same is enclosed as Annexure-5 Ground Water Quality monitoring report is attached as Annexure-6 .
vii-	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.	Hazardous Chemical is being stored in dedicated.
viii-	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	Yeast sludge is collected as wet cake from Decanter and mixed with Slop obtained from MEE. Mixture is being further dried in Decanter and utilised as Cattle feed.
ix-	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.	Noted and is being complied.
x-	The company shall undertake waste minimization measures as below: -	
a.	Metering and control of quantities of active ingredients to minimize waste.	Noted and is being complied as per EMP submitted to MOEF&CC.
b.	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Point is noted. Wet Cake obtained from Decanter is being further converted into Cattle feed.
c.	Use of automated filling to minimize spillage.	Noted and is being complied.
d.	Use of Close Feed system into batch reactors.	Noted and is being complied.
e.	Venting equipment through vapour recovery system.	Noted and is being complied.
f.	Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	Noted and is being complied.
xi-	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	33 % of total plant area is develop as green belt. It will be maintained in future also.

	plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Plantation photographs attached as Annexure-7.
xii-	All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.	Noted and will be Complied
xiii-	At least 3.5% 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.	Point is noted and under process.
xiv-	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.	Stack height is provided as per norms, emission from the stack will be within CPCB norms. Acoustic enclosure is being provided with DG set to reduce the Noise pollution.
xv-	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	NOC from fire department has been obtained.
xvi-	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Noted and regular health surveillance of the worker shall be done on regular basis.
xvii-	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.	For parking, adequate provision already made.
xviii-	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Raw material (Grains) is being stored in Silos.
xix-	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.	Continuous online (24x7) monitoring system for stack emissions has been installed and Connected to UPPCB and CPCB server. Copy of photographs attached as Annexure-8.
xx-	CO ₂ generated from the process shall be bottled/made solid ice and sold to authorized Vendors.	Noted and complied.

xxi-	Every production batch shall take prior approval from the concerned regulatory authority that raw grain is unfit for human consumption.	Noted
xxii-	Grain shall be tested for micro toxins from the Govt. laboratory and aware the workers related to grain dust. Regular medical checkup campaign shall be carried out for the same. Mask and gloves shall be provided to the workers along with training.	Noted and regular health surveillance of the worker shall be done on regular basis.

B - GENERAL CONDITIONS

Sr. No	Conditions	Reply
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.	Noted and will be Complied
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.	Condition Noted
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.	Two locations has been identified for ambient air quality monitoring and monitoring report of the same is attached as Annexure-9 .
iv-	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 15th November, 2009 shall be complied with.	Ambient Air Quality monitoring reports are attached as Annexure-9 .
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	Ambient Noise Quality monitoring reports are attached as Annexure-9 .

	(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.	Condition Noted and rain water harvesting system has been constructed as per norms. Photographs of the same is attached as Annexure-10.
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.	Noted and regular health surveillance of the worker shall be done 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.	Noted and complied.
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.	Noted and will be Complied.
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.	Separate environmental Cell has been established and Laboratory facility provided within premises.
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.	Noted and complied.
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	Copy of the clearance letter have been already sent by the project proponent to concerned Panchayat, Zila Parishad/

	suggestions/ representations, if any, were received while processing the proposal.	Municipal Corporation, Urban local Body and the local NGO.
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.	Noted and complied.
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 offices of MoEF&CC by e-mail.	Noted and will be Complied
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.	The copy of published information (in newspapers) regarding grant of Environmental Clearance is enclosed as Annexure-11 .

CHAPTER No. 03: 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 Construction Office & Adjacent to Swadishth Oil Mill to assess the ambient air quality. Three stations have been selected at 120° from the center. 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
1.	AAQ - 01	Near Construction Office	Industrial
2.	AAQ - 02	Adjacent to Swadishth Oil Mill	Industrial

AAQ - 01: Near Construction Office

The sampler was placed Near Construction Office and was free from any obstructions. Surroundings of the sampling site represent industrial environmental setting.

AAQ - 02: Adjacent to Swadishth Oil Mill

The sampler was placed Adjacent to Swadishth Oil Mill and was free from any obstructions. Surroundings of the sampling site represent industrial 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 Central Pollution Control Board (CPCB) and 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
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 Construction Office

Ambient Air quality monitoring results for PM_{2.5}, PM₁₀, SO₂ and NO_x near construction office is presented in Table-3.3.

Table-3.3:
AAQ Results Near Construction Office

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	85.2	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	49.41	2.0 - 500	For 24 hour =60
3	Sulphur Dioxides (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.25	5.0 - 1050	For 24 hour =80
4	Oxides of nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	22.16	6.0 - 750	For 24 hour =80

3.1.4 Ambient Air Quality Monitoring Results at Adjacent to Swadishth Oil Mill

Ambient Air quality monitoring results for PM_{2.5}, PM₁₀, SO₂ and NO_x at adjacent to swadishth oil mill is presented in Table-3.4.

Table-3.4:
AAQ Results at Adjacent to Swadishth Oil Mill

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	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 Dioxides (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.25	5.0 - 1050	For 24 hour =80
4	Oxides of nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	21.49	6.0 - 750	For 24 hour =80

3.1.5 Discussion on Ambient Air Quality in the Study Area

The value of PM₁₀ at Ambient Air Monitoring Station No: 1 & 2 are 85.2 µg/m³ & 83.4 µg/m³ which were within permissible limit of 100 µg/m³ and PM_{2.5} levels are 49.41 µg/m³ at Station No: 1 and 49.97 µg/m³ at Station No: 2, 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 14.25 µg/m³ to 14.25 µg/m³ and NO_x ranges between 21.49 µg/m³ to 22.16 µg/m³ was also observed within the corresponding stipulated limits (Limit for SO₂ and NO_x; 80 µg/m³) at both monitoring locations. Station wise variation of ambient air quality parameters has been graphically shown in **Figure-3.1 to 3.4**.

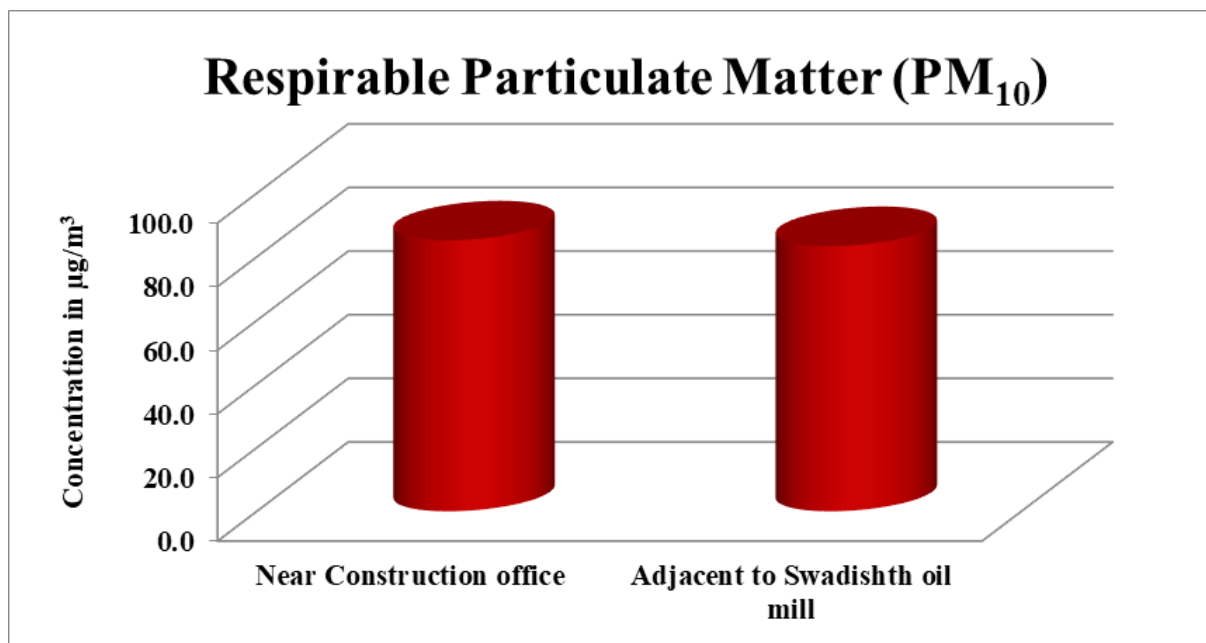


Figure-3.1: Graphs Showing PM₁₀ Concentration at all sites

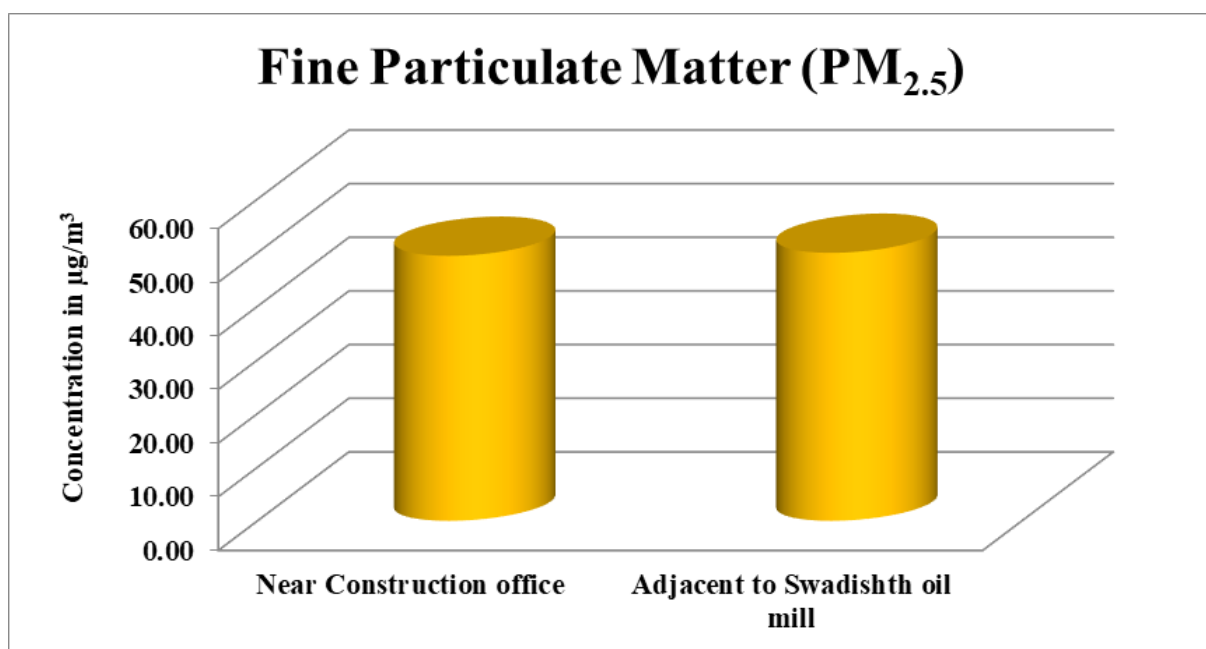


Figure-3.2: Graphs Showing PM_{2.5} Concentration at all sites

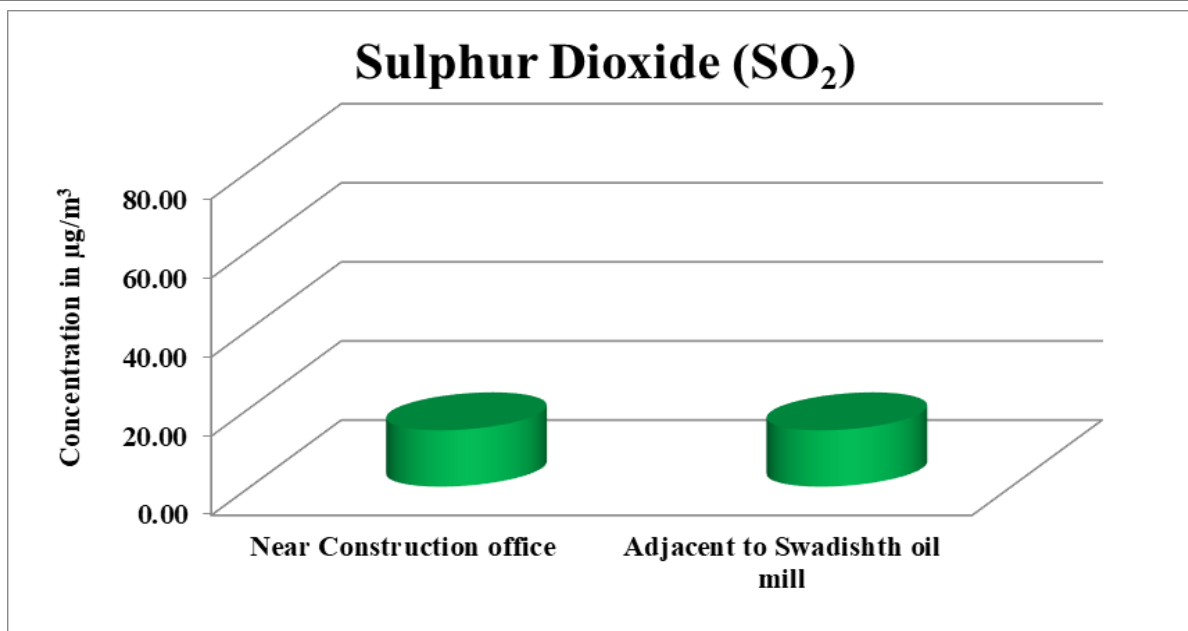


Figure-3.3: Graphs Showing SO₂ Concentration at all sites

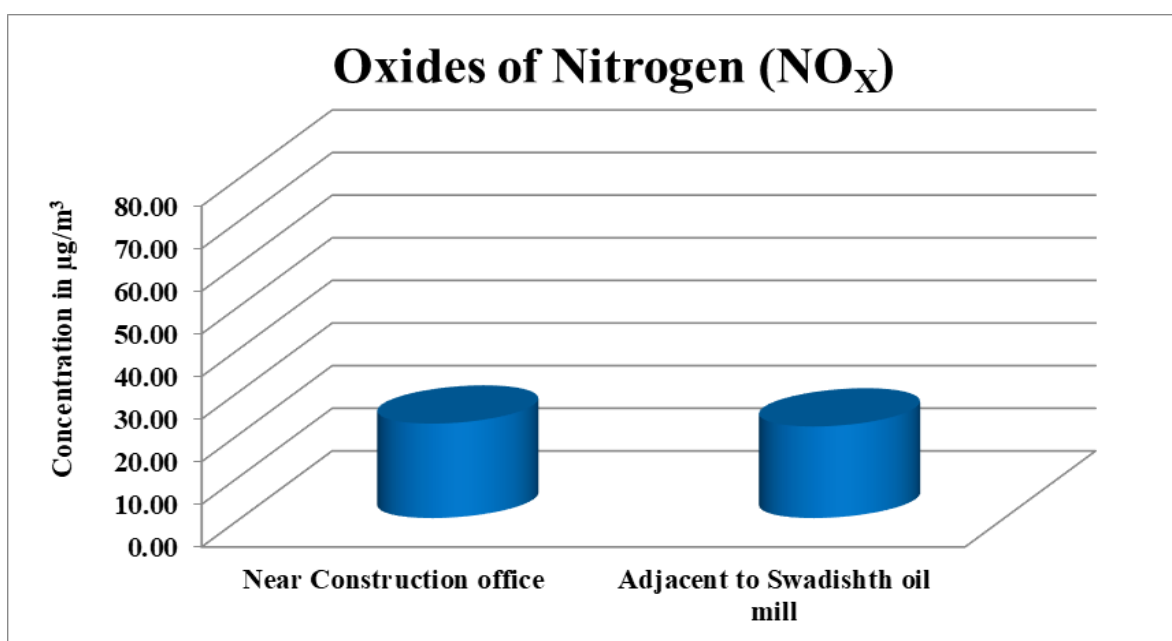


Figure-3.4: Graphs Showing NO_x Concentration at all sites

3.2 STACK EMISSION MONITORING

Stack Emission monitoring was carried out by EPA approved Laboratory on date 11.09.2023 for stack attached with 40.0 TPH boiler (ESP is used as Air Pollution Control Device with a stack height of 55.0 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-3.5**.

Table-3.5:
Details of Stack Emission Monitoring Results

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	44.8	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-3.6**.

Table-3.6:
Details of Ambient Noise Monitoring Stations

Sr. No	Location Code	Location name and description	Present Land use
1.	NQ - 01	Near Project Site	Industrial

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-3.7**. The noise levels are graphically presented in **Figure-3.5**.

Table-3.7:
Ambient Noise Monitoring Results

Ambient Noise Level				
Sr. No.	Parameter	Unit	Day Time (06:00 AM - 10:00 PM)	Night Time (10:00 PM - 06:00 AM)
1	Equivalent sound level	dB(A)	63.20	50.48

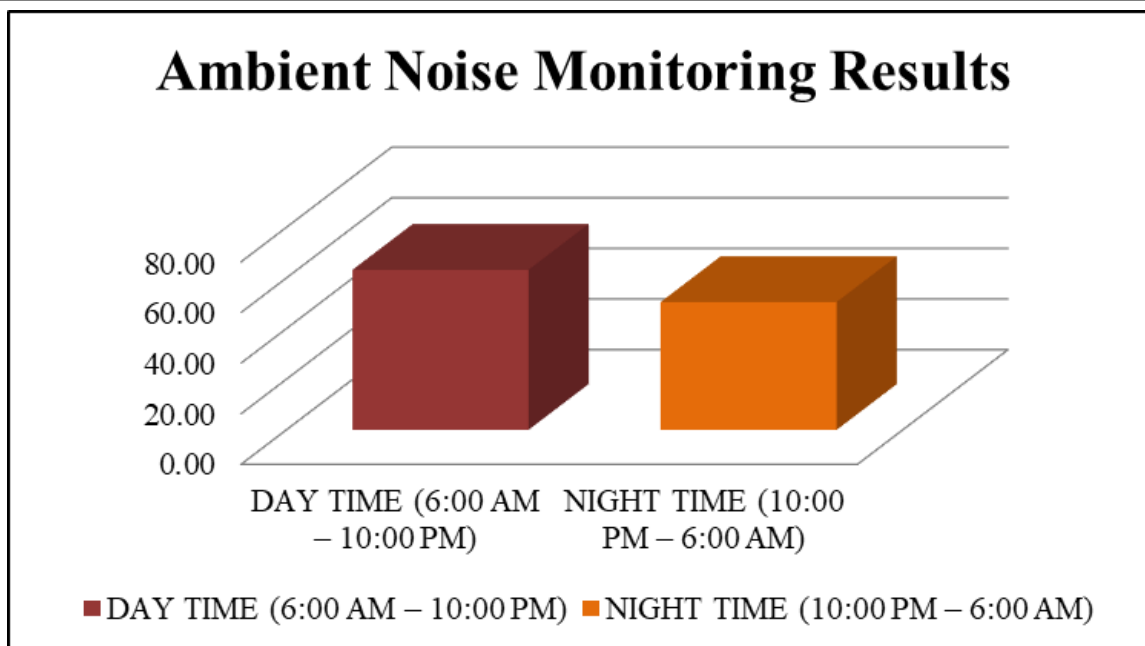


Figure 3.5: Day and Night Time noise Level at Near Project Site

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

Silence Zone : No Silence zone is present within or around the industry.

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 63.20 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 50.48 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-3.8**.

Table-3.8:
Details of Water Quality Monitoring Station

Sr. No	Location Code	Location name and description	Date of Monitoring
1.	GW - 01	Borewell (within premises)	12 th September, 2023

3.4.2 Methodology of ground water Quality Monitoring

Sampling of ground water was carried out on 12.09.2023. 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 Waste water' 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-3.9**.

3.4.3 Ground water Quality Monitoring Results

The detailed Ground water quality monitoring results are presented in **Table-3.9**

Table-3.9:
Ground water Quality Results at Borewell (within premises)
(September, 2023)

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	<2.0	2 - 40	1	5
5	Total Dissolved Solids (TDS)	mg/l	IS: 3025 (Part-16): 1984 Reaffirmed: 2017	392.6	10 - 5000	500	2000
6	Ammonia (as total ammonia-N)	mg/l	APHA 23 rd Ed. 2017-4500-NH ₃ F	<0.5	0.5 - 10	0.5	No Relaxation
7	Anionic Detergents (as MBAS)	mg/l	APHA 23 rd Ed. 2017-5540 C	<0.05	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	34.02	0.1 - 200	30	100
10	Chloride as Cl	mg/l	APHA 23 rd Ed. 2017-4500-Cl ⁻ B	22.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F ⁻ C	0.33	0.02 - 5.0	1.0	1.5
12	Free Residual Chlorine	mg/l	IS: 3025 (Part-26): 1986 Reaffirmed: 2019	<0.1	0.1 - 5.0	0.2	1.0
13	Nitrate as NO ₃	mg/l	IS: 3025 (Part-34): 1986 Reaffirmed: 2019	<1.0	1.0 - 70	45	No Relaxation
14	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	APHA 23 rd Ed. 2017-5530 C	<0.001	0.001 - 0.005	0.001	0.002
15	Sulphate as SO ₄	mg/l	APHA 23 rd Ed. 2017-4500- SO ₄ ²⁻	28.0	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	276.0	5.0 - 800	200	600
18	Aluminium as Al	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	<0.015	0.015 - 5.0	0.03	0.2
19	Boron as B	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	<0.05	0.05 - 2.0	0.5	1.0
20	Copper as Cu	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	<0.03	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..26	0.05 - 15	5	15
24	Cadmium as Cd	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	<0.05	0.05 - 2.0	0.003	No Relaxation
25	Lead as Pb	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	<0.01	0.01 - 10	0.01	No Relaxation
26	Mercury as Hg	µg/l	APHA 23 rd Ed. 2017-3112 B	<0.5	0.5 - 1000	1.0	No Relaxation
27	Nickel as Ni	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	<0.05	0.05 - 5.0	0.02	No Relaxation
28	Arsenic as As	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	<0.02	0.02 - 2	0.01	0.05
29	Total Chromium	mg/l	APHA 23 rd Ed. 2017-3120 B (ICP-OES)	<0.03	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 construction 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-3.10**.

Table-3.10: Details of Soil Monitoring Stations

Sr. No	Location Code	Location name and description
1.	SQ - 01	Project Site (Within Premises)

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 12.09.2023.

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-3.11**.

Table-3.11: 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: 2021	7.3	1 - 14
2	Electrical Conductivity	µmhos/cm	IS: 14767:2000 Reaffirmed:2021	302.0	1.0 - 40000
3	Moisture content	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2020	3.14	1.0 - 50
4	Copper	mg/kg	ETRC/ LABSOPS/07	0.86	0.3 - 500
5	Zinc	mg/kg	ETRC/ LABSOPS/08	16.20	1.0 - 500
6	Iron	mg/kg	ETRC/ LABSOPS/09	282.0	5.0 - 500
7	Manganese	mg/kg	ETRC/ LABSOPS/10	51.3	5.0 - 500
8	Sulphur	mg/kg	IS:14685: 1999 Reaffirmed: 2019	16.4	5.0 - 100

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-1
Copy of CTO



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.in, Website: www.uppcb.com

172577/UPPCB/KanpurDehat(UPPCBRO)/CTO/both/KANPUR DEHAT/2022

Date: 07/01/2023

To,

M/s

AARTI DISTILLERIES PRIVATE LIMITED

Village- Chiraura, Tehsil- Akbarpur, District- Kanpur Dehat (U.P.),KANPUR DEHAT,208002

Application Id- 19016168

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Fresh) under Section-25 of the Water (Prevention & Control of Pollution) Act, 1974 and under Section-21 of the Air (Prevention & Control of Pollution) Act, 1981

CCA is hereby granted to **AARTI DISTILLERIES PRIVATE LIMITED** located at **Village- Chiraura, Tehsil- Akbarpur, District- Kanpur Dehat (U.P.),KANPUR DEHAT,208002.** subject to the provisions of **the Water Act, Air Act** and the orders that may be made further and subject to following terms and conditions :-

1. This CCA AARTI DISTILLERIES PRIVATE LIMITED **granted for the period from 07/01/2023 to 31/12/2024** and valid for manufacturing of following products.

S No	Product	Quantity	Unit
1	RECTIFIED SPIRIT/ENA/GNS (100 % Grain based)	150	Kilo Liters/Day
2	Co-generation Power	4.5	Megawatt

2. Conditions under Water(Prevention and Control of Pollution) Act -1974 as amended :-

(i) The daily quantity of effluent discharge (KLD) :-

Kind of Effluent	Quantity(KLD)	Treatment facility	Discharge point
Domestic	12 KLD	Septic Tank	Soak Pit
Industrial	ZLD	ETP	ZLD

(ii) Trade Effluent Treatment and Disposal :-The applicant shall operate Effluent Treatment Plant consisting of primary/secondary and tertiary treatment as is required with reference to influent quantity and quality.

In case of stoppage of functioning of ETP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(iii) The treated effluent shall be recycled to the maximum extent and should be reused within the premises for gardening etc. Quality of the treated effluent shall meet to the following general and specific standards as prescribed under Environment (Protection) Rules, 1986 and applicable to the unit from time-to-time :-

Industrial Effluent Quality Standard

S.No.	Parameter	Standard
-------	-----------	----------

(iv) Sewage Treatment and Disposal :- The applicant shall provide comprehensive STP as is required with reference to influent quantity and quality. In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(v) The treated sewage shall be reused in gardening as far as possible. The STP shall be maintained continuously so as to achieve the quality of the treated sewage to the following standards.

S No.	Parameters	Standards
1	pH	5.5-9.0
2	BOD (mg/L)	30 mg/l
3	TSS (mg/L)	100 mg/l

3. Conditions under Air (Prevention and Control of Pollution) Act -1981 as amended :-

i) The applicant shall use following fuel and install a comprehensive control system consisting of control equipment as required with reference to generation of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards.

Air Pollution Source Details

S No.	Air Pollution Source	Type of fuel	Stack no	Control Device	Height of Stack
1	Boiler-40 TPH	Rice Husk/Coal	01	Particulate Matter	55 meter high stack from Ground level along with ESP
2	D.G. Set-1000 KVA	HSD	02	Particulate Matter	As per norms with acoustic enclosure.
3	D.G. Set-1000 KVA	HSD	03	Particulate Matter	As per norms with acoustic enclosure.

Emission Quality Standards

S No.	Stack no	Parameters	Standards
1	01	Particulate Matter	As per E(P) Rules 1986
2	02	Particulate Matter	As per E(P) Rules 1986
3	03	Particulate Matter	As per E(P) Rules 1986

In case of stoppage of functioning of air pollution control equipment, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately

(ii) The unit will not use any type of restricted fuel.

iii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective areas/zones (Industrial, Commercial, Residential, Silence) which are as follows :-

Day time : from 6.00 a.m. to 10.00 p.m., Night time: from 10.00 p.m. to 6.00 a.m.

Standards for Noise level in db(A) Leq	Industrial Area		Commercial Area		Residential Area		Silence Zone	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	75	70	65	55	55	45	50	40

4. Essential documents to be submitted by the Industry/Unit as Applicable :-

(i) Environment Statement in Form-V of Environment (Protection) Rules, 1986.

(ii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.

5. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.

6. Unit has to comply with the following specific & general conditions. Non compliance of any provision of this CCA and provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 will result in legal action under the aforesaid Acts and Rules.

7. In compliance to the G.O 1011/81-7-2021-09 (Writ)/2016 dated.13.10.2021 issued by Department of Environment, Forest and Climate Change, Uttar Pradesh. You are directed to develop Miyawaki Forest as per the SOP available at URL:-<http://www.upecp.in/TrainingSession.aspx> for ensuring timely compliance of this direction, you are hereby directed to submit a bank guarantee with minimum validity of one year of the amount equivalent to the sum of initial consent fees (Air and Water) or Rs. 50,000/- (Rs. Fifty Thousand Only) whichever is more, within 30 days from the date of issuance of this certificate. In case of non-compliance of this direction, your consent will be revoked by the Board.

8. If the unit uses the ground water and requires the permission from SGWA/CGWA for water abstraction then the industry will have to obtain No objection certificate for abstraction of ground water. It will be the responsibility of the industry to comply with the various conditions of the NOC obtained from the competent authority and submit to the Board, within 3 months time failing which CTO will be revoked.

General Conditions:-

1. The applicant shall get analysed the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF and shall report to the UPPCB.

2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.

3. Treated Industrial waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.

4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.

5. The applicant shall maintain good house keeping. All valves/pipes/sewer/drains etc. must be leak-proof

6. The industry shall provide uninterrupted entry to the STP/ETP inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control systems.

7. The industry shall provide Inspection Book at the time of inspection to the Board's officials.

8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.

9. The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.

10. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.

11. The applicant shall apply before the 60 days of expiry of CCA or any change in production types/production capacity/manufacturing process/capacity enhancement etc. or any change in effluent discharge point or emission point

12. The Board reserves the right to revoke/add/modify any stipulated condition issued along with CCA, as may be necessary.

Specific Conditions:-

1- This CTO is valid for production capacity of RECTIFIED SPIRIT/ENA/GNS-150 KL/DAY (100 % Grain based) and operation of Co-generation Power Plant-4.5 MW, at Vill - Chiraura, Tehsil - Akbarpur, District - Kanpur Dehat.

2- The industry must comply with the conditions of Certificate of "No Increase in Pollution Load" issued by UPPCB on 12.12.2022.

3- Unit will adopt strategy, spent wash is first fed into the decanter for solid separation and then thin Slop from decanter is being concentrated in MEE then concentrated Spent wash syrup is being mixed with wet cake of decanter which is further converted to DDGS and sold as Cattle feed. Same spent wash treatment technique will be adopted for 100 % Grain based operation.

4- The industry must comply with the conditions of NOC issued to unit from the UPGWD for abstraction of ground water.

5- This consent is valid only for Zero Liquid Discharge (ZLD). No effluent is allowed to discharge outside the factory premises.

6- In case of any change in production capacity, process, raw material use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. Pollution Control Board.

7- Industry shall install Sewage Treatment Plant of capacity 30 KLD for treatment of domestic effluent. The treated STP effluent should achieve the prescribed standard as notified by MoEF&CC. The treated effluent shall be reused for irrigation within the industry premises.

8- As per the directions given by Commission for Air Quality Management in National Capital Region and Adjoining Areas vide its letter no-A-110018/01/2021-CAQM, dated-04.02.2022, industry shall under all circumstances completely switch over to PNG or Bio Fuels latest by 30.09.2022. Industry should switch over to PNG Fuel as soon as PNG supply is available in the area. Unit must use Rice Husk/Biomass/Agriculture Refuse/Bio Fuel Pellets/Bio Briquettes as per direction given by CAQM.

9- Operation and maintenance of APCS shall be done in such a way that the emission generated from stacks is always within prescribed limit.

10- The unit shall be monitored all sources of emissions from Boiler etc. after fuel conversion from Regional Laboratories, UPPCB, on payment basis within a month.

11- The unit must submit the copy of TSDF agreement in the Board within a month.

12- The unit shall maintain strict supervision upon fluctuations in operating parameters with respect to each treatment unit of the Effluent treatment plant.

13- The E.T.P. unit operation line up Strengthening is to be maintained.

14- The Unit shall install Piezometer for measurement of ground water level and the data generated from Piezometer will be provided to the SPCB on monthly basis.

15- Flow meter to be installed in all water abstraction points and usage of fresh water to be minimized.

16- The industry shall strictly comply with conditions mentioned in the charter on CREP prepared by CPCB.

17- Industry shall maintain Online Continuous Effluent and emission Monitoring System (OCEMS) on ETP

and stack & connect it with SPCBs and CPCB server, before start of production as per the direction of CPCB.

18- Industry shall install PTZ camera at each strategic location such as MEE, effluent storage lagoon etc. for monitoring purpose. The URLs and password shall be provided to the Board.

19- Industry shall ensure the compliance of office memorandum dated 28.08.2019 issued by MoEF&CC, Govt. of India and detail of Fly ash disposal shall be submitted on quarterly basis to UPPCB.

20- The unit shall submit the audited balance sheet for the current year and the details of fees deposited during last three years within a month.

21- The industry shall install electromagnetic flow meter at water source and outlet of ETP, and maintain the records of water abstracted and recycled treated effluent. The treated effluent from the Effluent Treatment Plant shall be used completely in the manufacturing process.

22- 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.

23- Industry shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.

24- The industry shall comply with the provisions of Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016.

25- The industry shall ensure provisions of Roof Top Rain Water Harvesting system and Ground Water Recharging Proposal/ compliance report should be sent to the Board within One month.

26- The industry shall provide adequate arrangement for fighting the accidental leakages/discharge of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.

27- 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.

28- No effluent is allowed to discharge outside the factory premises.

29- Any source of emission other than that mentioned in the consent seeking application will not be permitted by the Board.

30- The industry should ensure the operation of the air pollution control system (APCS) in such a manner that the air emission confirms with the standards prescribed under the E.P Act 1986 as amended.

31- Industry shall submit Environmental Statement in prescribed format as per rule no.14 as per E.P Rules 1986.

32- The industry shall operate 40 TPH Boiler with ESP and 55 meter stack height as per norms. The APCS will be maintained and operated in such a manner that emissions always conform to the standard laid down under the E.P Act 1986 as amended.

33- Industry shall submit monthly monitoring reports of all stacks and ambient air quality from a certified / approved laboratory under E.P. Act 1986 and on quarterly basis to the Board.

34- Industry shall submit analysis reports from a certified / approved laboratory under E.P. Act 1986 within a month and on quarterly basis to the Board.

35- The unit shall obtain prior consents in the event of any addition of new emission generation sources such as- Boiler/ Furnace/ Heaters/ D.G. Sets or alteration of existing emission sources in accordance with section-21/22 of air Act 1981 (as amended respectively).

36- The Industry will use minimum 20% Bio Briquette as fuel in the Boiler depending upon its availability.

37- In compliance with the Hon'ble Supreme Court order passed in W.P. (civil) No. 13029/1985 M.C. Mehta Vs. Union of India and ors. the use of Pet coke and furnace oil is prohibited.

38- Proper dust control measures shall be taken during construction and provisions of Construction and Demolition Waste Management Rules 2016 shall be effectively implemented and submit report to Board.

39- Minimum 33% of the land on which industry is established will be covered by the plantation of tall trees of suitable species as per the guidelines set up by the Board vide its Office Order no.H16405/220/2018/02 dt. 16/02/2018. The copy of this guideline is available at URL http://www.uppcb.com/pdf/Green-Belt-Guidle_160218.pdf.

RAJENDRA SINGH Digitally signed by RAJENDRA SINGH
Date: 2023.01.24 11:11:22 +05'30'

Chief Environmental Officer (circle-2)

Copy to:

Regional Officer, UPPCB, Kanpur Dehat with direction to send the compliance report of CTO conditions on quarterly basis.

RAJENDRA SINGH Digitally signed by RAJENDRA SINGH
Date: 2023.01.24 11:11:39 +05'30'

Chief Environmental Officer (circle-2)



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

152527/UPPCB/KanpurDehat(UPPCBRO)/CTO/both/KANPUR DEHAT/2022 Date: 24/03/2022

To,

M/s

AARTI DISTILLERIES PRIVATE LIMITED

Village- Chiraura, Tehsil- Akbarpur, District- Kanpur Dehat (U.P.),KANPUR DEHAT,208002

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Fresh) under Section-25 of the “Water (Prevention & Control of Pollution) Act, 1974” and under Section-21 of the “Air (Prevention & Control of Pollution) Act, 1981”

Consent No-15481959	Date-24/03/2022
----------------------------	------------------------

CCA is hereby granted to **AARTI DISTILLERIES PRIVATE LIMITED** located at **Village- Chiraura, Tehsil- Akbarpur, District- Kanpur Dehat (U.P.),KANPUR DEHAT,208002**. subject to the provisions of the **Water Act, Air Act** and the orders that may be made further and subject to following terms and conditions :-

1. This CCA **AARTI DISTILLERIES PRIVATE LIMITED** **granted for the period from 23/03/2022 to 31/12/2023** and valid for manufacturing of following products with **Capital Investment/Net Assets Values 17500.00 Lakhs**

S No	Product	Quantity	Unit
1	Rectified Sprit/INA/GNS	125	Kilo Liters/Day
2	IMFL/CL Bottling Units	12000	Numbers/Day
3	Co-Gen Power	4.5	Megawatt

2. Specific Conditions under Water Act :-

(i) The daily quantity of effluent discharge (KLD) :-

Kind of Effulant	Quantity(KLD)	Treatment facility and discharge point
Domestic	12.0	Septic Tank
Industrial	ZLD	ETP

(ii) Trade Effluent Treatment and Disposal :-The applicant shall operate **Effluent Treatment Plant** consisting of primary/secondary and tertiary treatment as is required with reference to influent quantity and quality.

In case of stoppage of functioning of ETP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(iii) The treated effluent shall be recycled to the maximum extent and should be reused within the premises for gardening etc. Quality of the treated effluent shall meet to the following general and specific standards as prescribed under Environment (Protection) Rules, 1986 and applicable to the unit from time-to-time :-

Industrial Effluent Quality Standard

S.No.	Parameter	Standard
-------	-----------	----------

(iv) Sewage Treatment and Disposal :- The applicant shall provide comprehensive STP as is required with reference to influent quantity and quality. In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(v) The treated sewage shall be reused in gardening and the same shall be maintained continuously so as to achieve the quality of the treated effluent to the following standards.

S No.	Parameters	Standards
1	Fecal Coliform (MPN/100ml)	1000
2	BOD (mg/L)	30
3	TSS (mg/L)	100

3. Conditions under Air Act :-

i) The applicant shall use following fuel and install a comprehensive control system consisting of control equipment as is required with reference to generation of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards

Air Pollution Source Details

S No.	Air Pollution Source	Type of fuel	Stack no	Control Device	Height of Stack
1	Boiler-40 TPH	Rice Husk	01	Particulate Matter	55 meter high stack with ESP.
2	D.G. Set-1000 KVA	HSD	02	Particulate Matter	As per norms with acoustic enclosure.
3	D.G. Set-1000 KVA	HSD	03	Particulate Matter	As per norms with acoustic enclosure.

Emission Quality Standards

S No.	Stack no	Parameters	Standards
1	01	Particulate Matter	150 mg/Nm ³
2	02	Particulate Matter	less than or equal to 0.2 g/kW-hr
3	03	Particulate Matter	less than or equal to 0.2 g/kW-hr

In case of stoppage of functioning of air pollution control equipment, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be

dispatched immediately

ii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective areas/zones (Industrial, Commercial, Residential, Silence) which are as follows :-

Day time : from 6.00 a.m. to 10.00 p.m., Night time: from 10.00 p.m. to 6.00 a.m.

(iii) The unit will not use any type of restricted fuel.

Standards for Noise level in db(A) Leq	Industrial Area		Commercial Area		Residential Area		Silence Zone	
	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
	75	70	65	55	55	45	50	40

6. Compulsory documents to be submitted by the Industry/Unit :-

(i) Annual return in Form-4 and Waste Disposal Manifest in Form-10 under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and Third Party Audit Report.

(ii) Environment Statement in Form-V of Environment (Protection) Rules, 1986.

(iii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.

7. Unit has to apply for renewal of CCA well in advance of 60 days of expiry of this CCA.

8. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.

9. Unit has to comply with the other general conditions as annexed herewith. Non compliance of any provision of this CCA and provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 will results in legal action under the aforesaid Acts and Rules.

Digitally signed by
RAJENDRA SINGH
Date: 2022.04.28
10:10:13 +05'30'
Chief Environmental Officer (Circle-2)

Copy to:

Regional Officer, UPPCB, Kanpur Dehat with direction to send the compliance report of CTO conditions on quarterly basis.

Digitally signed by
RAJENDRA SINGH
Date: 2022.04.28
10:10:32 +05'30'
Chief Environmental Officer (Circle-2)

Annexure

Specific Conditions

1- This CTO is valid for Production of Rectified Sprit/INA/GNS -125 KLD, IMFL/CL Bottling Units-12000 Cases/day and Co-generation Power - 4.5 MW. This consent is valid only for Zero Liquid Discharge (ZLD).

2- Grain (Broken Rice, Sorghum, Bazra, Maize etc) - 305 TPD, Barley Malt-58 TPD, Process Chemicals, Sodium Hydroxide (Caustic)- 480 Kg/day, Nutrients-300 Kg/day, Enzymes Agent-300 Kg/day, Antifoam Agent-145 Kg/day, Yeast-130 Kg/day will be used as raw material.

3- In case of any change in production capacity, process, raw material use etc. the industry will have to intimate the Board. For any enhancement of the above, fresh Consent to Establish has to be obtained from U.P. Pollution Control Board.

4- Industry shall comply with all the conditions imposed in the Environmental Clearance issued by the MoEF&CC vide their letter no. J-11011/58/2018-IA-II(I) Dated 18 September, 2018, in time bound manner.

- 5- The Industry shall attain the zero industrial effluent discharge by operating ZLD based effluent treatment plant as per the guideline formulated by Central Pollution Control Board for distillery sector.
- 6- The industry shall strictly comply with conditions mentioned in the charter on CREP prepared by CPCB.
- 7- Suspended Solids remove from the effluent through Centrifuge Decanter shall be used as poultry feed.
- 8- The spent wash 1312 KLD will be initially treated through Decantor and approx 160 KLD solid particle will be separated. After that, out of rest 1152 KLD spent wash, 565 KLD will be reused in process/cooling tower and 587 KLD spent wash will be concentrated through Multi Effect Evaporator (MEE) of capacity 700 KLD. Concentrated Effluent will be mixed with wet cake and it will be dry through dryer to produce dry power. The condensate shall be treated through ETP/CPU of capacity 750 KLD. After this, it will be passed through RO plant and RO permeate shall be reutilized in the process and the RO reject shall again be fed in the MEE.
- 9- Unit 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 and zero effluent discharge shall be ensured.
- 10- Industry shall operate and maintain Electro Magnetic 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) and record the water balance.
- 11- Industry shall install and operate PTZ cameras at each strategic location such as MEE, RO plant, effluent storage lagoon etc. for monitoring purpose. The URLs and password shall be provided to the Board.
- 12- The unit shall maintain strict supervision upon fluctuations in operating parameters with respect to each treatment unit of the Effluent treatment plant.
- 13- The E.T.P. unit operation line up Strengthening is to be maintained.
- 14- The Unit shall install Piezometer for measurement of ground water level and the data generated from Piezometer will be provided to the SPCB on monthly basis.
- 15- Industry shall install Sewage Treatment Plant of capacity 30 KLD for treatment of domestic effluent as proposed. The treated STP effluent should achieve the prescribed standard as notified by MoEF&CC. The treated effluent shall be reused for irrigation within the industry premises.
- 16- The industry should ensure the operation of the air pollution control system (APCS) in such a manner that the air emission confirms with the standards prescribed under the E.P Act 1986 as amended.
- 17- Industry shall maintain Online Continuous Effluent and emission Monitoring System (OCEMS) on ETP and stack & connect it with CPCB server, before start of production as per the direction of CPCB.
- 18- Industry shall ensure the compliance of office memorandum dated 28.08.2019 issued by MoEF&CC, Govt. of India and detail of Fly ash disposal shall be submitted on quarterly basis to UPPCB.
- 19- The industry shall comply with the conditions of NOC issued by Ground Water Department for abstraction of ground water vide Registration No.: 202106000261 dated 07.03.2021.
- 20- The storage facility provided for effluent shall be properly lined and made impermeable and the storage capacity at any stage shall not exceed 15 days equivalent of production.
- 21- Industry shall make proper arrangement for safe and scientific handling, storage, transportation and disposal of all generated solid wastes, sludge etc.
- 22- Effluent generation and its storage shall be done as per the guidelines of CPCB.
- 23- Measuring system for effluent storage shall be installed.
- 24- The industry shall provide adequate arrangement for control of odour nuisance. All internal roads shall be made pucca.
- 25- Industry shall develop and maintain green belt as per the guidelines issued by the Board vide office order no. H16405/220/2018/02, dated 16/02/2018, which is available at URL "[http:// www.uppcb.com/pdf/Green-Belt-Guide_160218.pdf](http://www.uppcb.com/pdf/Green-Belt-Guide_160218.pdf)". The unit should develop plantation on the Miyawaki process as per G.O. dated

13.10.2021 of Govt. of UP.

26- Industry shall install shallow hand pumps in the industry premises preferably near the storage lagoons, and analysis of underground water should be done on quarterly basis to keep a check on under water contamination.

27- Industry will operate and maintain Electrostatic Precipitator and 55 meter high stack attached with rice husk/coal fired boiler of capacity 40 TPH in such a manner to achieve the prescribed standards.

28- The noise level and emission from 02 Nos. D.G. sets of capacity 1000 KVA shall be kept within the prescribed norms.

29- The overall noise levels in and around area shall be kept well within the prescribed standards by providing noise control measures including acoustic hoods, silencers, enclosures etc, on all sources of noise generation. The ambient noise level shall conform to the standards under the Environment (Protection) Act 1986.

30- Industry shall abide by directions given by Hon'ble Courts, MoEF&CC, Central Pollution Control Board and UPPCB for protection and safe guard of environment from time to time.

31- Industry shall comply with various provisions of Air (Prevention and Control of Pollution) Act 1981 as amended, Water (Prevention and Control of Pollution) Act 1974 as amended and all other applicable rules notified under E.P. Act 1986.

32- The industry shall comply the provisions of Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016 and shall obtain authorization for the disposal of hazardous waste.

33- The industry shall ensure provisions of Roof Top Rain Water Harvesting system and Ground Water Recharging Proposal/ compliance report should be sent to the Board within One month.

34- The industry shall provide adequate arrangement for fighting the accidental leakages/discharge of any air pollutant/gas/liquid from the vessel, machinery etc. which are likely to cause fire hazard including environmental pollution.

35- 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.

General Conditions:-

The applicant shall get analyse the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF and shall report to the UEPPCB.

1. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.

2. Treated waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.

3. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If, at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.

4. The applicant shall maintain good house keeping. All valves/pipes/sewer/drains etc. must be leak-proof

5. The industry shall provide uninterrupted entry to the STP's/ETP's inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control measures.

6. The industry shall provide "Inspection Book" at the time of inspection to the Board's officials.

7. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.

8. The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.

9. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
10. The applicant shall apply before the 60 days of expiry of CCA or any change in production types/ production capacity/manufacturing process/capacity enhancement etc. or any change in effluent discharge point or emission point
11. The Board reserves the right to revoke/add/modify any stipulated condition issued along with CCA, as may be necessary.
12. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous waste without obtaining prior permission of the Board.
13. Any unauthorized change in personnel, equipment as working condition as mentioned in the application by the person authorized shall constitute a breach of his authorization.
14. It is the duty of the authorized person to take prior permission of the Board to close down the facility.
15. The authorization is valid for temporary storage of Hazardous Waste within premises only.
16. The authorized agency shall ensure that on-line data with regard to quantity and nature of hazardous chemicals being used in the plant as well as air emission and waste generated within premises is displayed on Display Board of size 6x4 feet outside the main factory gate within premises
17. It is duty of the authorized person to take prior permission of this Board to close and cleanup the facility for treatment, storage and disposal of hazardous waste.
18. The applicant shall maintain record of hazardous waste in Form-3 and shall submit annual return in Form-4 on or before the 30th day of June following to the financial year to which that return relates.
19. In no case any hazardous waste shall be disposed off on land, in any drain, or into any water stream. All spillage must also be safely collected and stored.
20. Before the hazardous waste is stored or dumped in the facility, applicant must conduct a detailed physical and chemical analysis of hazardous waste sample and report to the Board.
21. Dried hazardous sludge from the process in the plant shall be stored in double lined HDPE pit constructed with R.C.C. or such material which does not react with the waste contained in it.
22. The storage area should be fenced properly and Sign/Notice Board indicating 'Danger' and 'Hazardous' shall be displayed at appropriate position both in Hindi and English.
23. The industry shall store non-ferrous metal waste, used oil/spent oil waste in sealed drums placed on impervious floor under covered shed. Hazardous waste if required shall be sold only to Registered Recyclers/Re-processors.
24. In case of any transportation of hazardous waste, the details in Form-10 of the Hazardous and Other Wastes Rules, 2016 shall be submitted to the Board.

RAJENDR
A SINGH
This is the official stamp of the Rajendra Singh, District Environmental Officer (circle-2). The stamp is a circular seal with the text "Rajendra Singh, District Environmental Officer (circle-2)" around the perimeter. The name "RAJENDR" and "A SINGH" are printed in large, bold, black letters over the stamp. To the right of the stamp, the text "Digitally signed by RAJENDRA SINGH" and "Date: 2022.04.28 10:10:50 +05'30'" is printed.

Digitally signed by
RAJENDRA SINGH
Date: 2022.04.28
10:10:50 +05'30'

Annexure-2

“No Increase in Pollution Load”



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

Ref No. - 172/UPHOC2/EIA/KANPUR DEHAT/2022

Dated:- 12/12/2022

To ,

Shri CHETAN SHARMA

M/s AARTI DISTILLERIES PRIVATE LIMITED

Village- Chiraura, Tehsil- Akbarpur, District- Kanpur Dehat (U.P.),KANPUR DEHAT,208002
KANPUR DEHAT

Sub : Certificate of “No Increase in Pollution Load” in compliance of notification issued by Ministry of Environment Forest & Climate Change, Government of India, vide its notification no. S.O. 980(E) 2nd March, 2021

Sir.

Kindly refer to the application dt 11/12/2022 related to sector Distillery for obtaining “No Increase in Pollution Load Certificate” in compliance of notification issued by Ministry of Environment Forest & Climate Change, Government of India, vide its notification no. S.O. 980(E) 2nd March, 2021.

That Ministry of Environment Forest & Climate Change, Government of India, vide its notification no. S.O. 980(E) 2nd March, 2021 exempted the requirement for prior Environmental Clearance for cases of change in raw material mix without change in the quantity and pollution load as prescribed in the Environmental clearance of the project. The said provisions made in notification dated 2nd March, 2021 are as below

Existing projects (having Prior Environmental Clearance) with no increase in pollution loads: Any increase in production capacity in respect of processing or production or manufacturing sectors (listed against item numbers 2, 3, 4 and 5 in the Schedule to this notification) with or without any change in (i) raw material-mix or (ii) quantities within products or (iii) number of products including new products falling in the same category or (iv) configuration of the plant or process or operations in existing area or in area contiguous to the existing area (for which prior environmental clearance has been granted) shall be exempt from the requirement of Prior Environmental Clearance provided that there is no increase in pollution load (derived on the basis of such Prior Environmental Clearance)

In compliance of the provisions of the notification no. S.O. 980(E) 2nd March, 2021, the applicant has submitted the the following documents

1. “No Increase In Pollution Load” certificate from the Environmental Auditor or reputed institutions empanelled by the State Pollution Control Board or Pollution Control Committee or Central Pollution Control Board or Ministry of Environment, Forest and Climate Change
2. Last Consent to Operate certificate for the project or activity.
3. Online system generated acknowledgement of uploading of intimation and “No Increase In Pollution Load” certificate on PARIVESH Portal
4. Scan Copy of form only submitted for “No Increase In Pollution Load” certificate on PARIVESH Portal

After the examination of the documents submitted by the applicant “No Increase in Pollution Load Certificate” is hereby issued with the following observation and conditions with the approval of competent authority

Obervation and Conditions

The proposal submitted by Environmental Auditor has been evaluated and concluded that the raw material mix shall be associated with following aspects related to pollution load.

I. The Project under consideration is for addition of alternative / Change in feed stock as Grain (For 25 KLD Malt Based) operation without change in production capacity: 150 KLD (100 % Grain based Operation) Distillery by M/s Aarti Distilleries Private Limited.

II. Unit will expand CPU capacity 850 cubic meter/day along with Reverse Osmosis System to enable recycling of MEE condensate, boiler blow down etc in order to fulfill the needs of additional fresh water.

III. Fresh water requirement will be reduced by 104 KLD during 100 % Grain based operation.

IV. Pollutant load like BOD, COD, TDS and TSS in effluent will be reduced during 100 % Grain based operation(Mode -2) .

V. Total BOD load during Grain + Malt based operation is 24440 kg/day which will be reduced to 19800 kg / day during 100 % Grain based operation.

VI. Total COD load during Grain + Malt based operation is 48880 kg/day which will be reduced to 39600 kg/day during 100 % Grain based operation.

VII. Total TDS load during Grain + Malt based operation is 30550 Kg/day which will be reduced to 24750 kg/ day during 100 % Grain based operation.

VIII. Total TSS load during Grain + Malt based operation is 12220 Kg/day which will be reduced to 9900 kg/ day during 100 % Grain based operation.

IX. Total generation of fly ash will be same during 100 % Grain based operation.

X. 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 50 mg/Nm³ during 100 % Grain based operation.

XI. Steam requirement will be reduced marginally.

XII. Total PM Load during Grain + Malt based operation is 140.5 kg/day which will be reduced to 135.2 kg/day during 100 % Grain based operation.

XIII. Total NO₂ load during Grain + Malt based operation is 216.6 kg/Day which will be reduced to 204.9 kg/Day during 100 % Grain based operation.

XIV. Total SO₂ load during Grain + Malt based operation is 365.9 kg/day which will be reduced to 359.4 kg/day during 100 % Grain based operation.

XV. Unit will adopt Zero Liquid Discharge in both the mode of Operation. Thus resulting in no increment with respect to water pollution.

XVI. Unit will adopted strategy, spent wash is first fed into the decanter for solid separation and then thin Slop from decanter is being concentrated in MEE then concentrated Spent wash syrup is being mixed with wet cake of decanter which is further converted to DDGS and sold as Cattle feed. Same spent wash treatment technique will be adopted for 100 % Grain based operation.

Hence, in view of the above facts, the UPPCB is of the view that the project of Ethanol by M/s Aarti Distilleries Private Limited, at village Chiraura, Tehsil Akbarpur, District Kanpur Dehat (Uttar Pradesh) due to addition of alternative / change in feed stock as Grain (For 25 KLD Malt Based) operation without change in production capacity: 150 KLD (100 % Grain based Operation) shall result in "No Increase in Pollution Load", hence the project is approved subject to the condition that the project is implemented strictly in accordance with the technical details submitted by the proponent before the Board. The Project Proponent shall ensure strict compliance of the following conditions:

1. Due to change in raw material from Grain + Malt to 100 % Grain without change in RS / INA / GNS production capacity 150 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.

2. The Project Proponent shall submit the validation report for 150 KLD in RS / INA / GNS production from any reputed Institute empaneled by UPPCB within 03 months after starting 100 % Grain based operation. If the validation report carried out by any reputed institute is same as claim made by the unit then SPCB may further allow to operate the unit as per proposal of the unit.

3. The unit shall restrict the concentrated spent wash storage capacity to 07 days only (Grain).

4. The unit should submit monthly data of following to UPPCB:

- a. Fresh water consumption
- b. Production
- c. Spent wash generation
- d. Slop generation
- e. Condensate generation
- f. Feed quantity of slop into incinerator / Decanter
- g. Yeast sludge generation
- h. Boiler ash generation
- i. Quantity of Spent lees generation, recycle/reuse and treatment in CPU

5. The unit shall ensure to obtain afresh consent (Water and Air) under the provision of Water (Prevention and control of Pollution) Act, 1974 and Air (Prevention and control of Pollution) Act, 1981 for the proposed production of 150 KLD RS / INA / GNS from UPPCB before starting production of RS / INA / GNS based on 100 % Grain.

6. The industry shall produce RS / INA / GNS 150 KLD maximum either use Grain + Maltor Grain.

7. The unit is hereby directed to apply a fresh for the production of 150 KLD,RS / INA / GNS from 100 % Grain with modified CTE conditions, for obtaining fresh Consent to Operate under the provisions of Water (Prevention and Control of Pollution) Act, 1974 as amended and Air (Prevention and Control of Pollution) Act, 1981

RAJENDRA
SINGH

Digitally signed by RAJENDRA
SINGH
Date: 2022.12.13 21:21:59
+05'30'

Chief Environmental Officer
(circle-2)

Copy
:

Regional Officer, UPPCB, Kanpur Dehat with direction to monitor the compliance of the conditions and send the compliance report to Head Office.

RAJENDRA
SINGH

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RAJENDRA SINGH
Date: 2022.12.13 21:22:22
+05'30'

Chief Environmental Officer
(circle-2)

Annexure-3

“Environment Clearance Letter”



F. No. J-11011/58/2018-IA-II (I)

Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

Indira Paryavaran Bhawan
Jor bagh Road,
New Delhi -110003

Dated: 14th September, 2020

To,

M/s Aarti Distilleries Private Limited
3rd Floor, 7/22D, Tilak Nagar,
Kanpur, Uttar Pradesh

Sub: Setting up of 125 KLPD Grain based Distillery, 25KLPD Malt Spirit Plant and 4.5 MW Cogeneration Power Plant at Village Chiraura, Tehsil Akbarpur, District Kanpur Dehat, Uttar Pradesh- Transfer of EC from M/s Rajasthan Liquors Limited to M/s Aarti Distilleries Private Limited -reg.

Sir,

This has reference to your online proposal No. IA/UP/IND2/169113/2020 dated 21st August, 2020 regarding transfer of environmental clearance from M/s Rajasthan Liquors Limited to M/s Aarti Distilleries Private Limited to the project for Grain based Distillery, Malt Spirit & Cogeneration Power Plant, located at Village Chiraura, Tehsil Akbarpur, District Kanpur Dehat, Uttar Pradesh.

2. The Ministry has granted environmental clearance in favour of M/s Rajasthan Liquors Limited vide file No. J-11011/58/2018-IA-II (I) dated 18th September, 2019 for Setting up of 125 KLPD Grain based Distillery, 25KLPD Malt Spirit Plant and 4.5 MW Cogeneration Power Plant at Village Chiraura, Tehsil Akbarpur, District Kanpur Dehat, Uttar Pradesh.

3. Now, M/s Aarti Distilleries Private Limited has informed that M/s Rajasthan Liquors Limited has been acquired by M/s Aarti Distilleries Private under the Companies Act 1956 and thus necessitating transfer of all requisite approvals in the name of new company.

4. M/s Aarti Distilleries Private Limited has submitted a copy of undertaking as an affidavit by Sh. Chetan Sharma, Director of M/s Aarti Distilleries Private Limited to abide by the terms and conditions stipulated in the environmental clearance dated 21st August, 2020. A copy of Certified true copy of resolution for transfer of various licenses, approval, permission of govt., semi government from M/s Rajasthan Liquors Limited (Transferor) to M/s Aarti Distilleries Private Limited (Transferee) has been also uploaded on Parivesh portal by M/s Aarti Distilleries Private Limited.

5. As per relevant provisions of the EIA Notification, 2006 the environmental clearance dated 19th August 2008 to the project for Grain based Distillery, Malt Spirit & Cogeneration Power Plant unit at Village Chiraura, Tehsil Akbarpur, District Kanpur Dehat, Uttar Pradesh granted by this Ministry, is hereby transferred from M/s Rajasthan Liquors Limited to M/s Aarti Distilleries Private Limited on the same terms and conditions under which prior environmental clearance was initially granted on 18.09.2019.

6. This issues with the approval of the competent authority.


(Dr. R. B. Lal)
Scientist 'E'/Additional Director
(Dr. R. B. Lal)
वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to :-

1. The Principal Secretary, Department of Environment and Forests, 17, Rana Pratap Marg, Lucknow, (U.P.), 226001
2. The Chief Conservator of Forests(Central), Ministry of Environment & Forests, Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H" Aliganj, Lucknow - 226020
3. The Chairman, Uttar Pradesh Pollution Control Board, Building. No. TC-12V Vibhuti Khand, Gomti Nagar, Lucknow-226 010
4. The Member Secretary, CPCB, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 32
5. M/s Rajasthan Liquors Limited
6. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi
7. Guard File/Monitoring File/Parivesh Portal/Record File


(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Email: rb.lal@nic.in
Telefax: +91-11-24695362

F. No.J-11011/58/2018-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division

Indira Paryavaran Bhawan
Jor bagh Road, New Delhi - 3
Dated: 18th September, 2019

To,

M/s Rajasthan Liquors Limited
Village Chiraura, Tehsil Akbarpur,
District **Kanpur Dehat** (UP)

Sub: Setting up grain based distillery, malt spirit plant and co-generation power plant by M/s Rajasthan Liquors Limited at Village Chiraura, Tehsil Akbarpur, District Kanpur Dehat (UP) - Environmental Clearance - reg.

Sir,

This has reference to your online proposal No.IA/PB/IND2/63809/2017 dated 29th 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 grain based distillery of 125 KLPD, malt spirit plant of 25 KLPD and co-generation Power Plant of 4.5 MW by M/s Rajasthan Liquors Limited in an area of 73500 sqm located at Village Chiraura, Tehsil Akbarpur, District Kanpur Dehat (UP). The project also involves setting up of IMFL/CL bottling unit of 12000 cases/day.

3. Total land area is 73500 sqm (7.35 ha). Green belt will be developed in 33% i.e. 24200 sqm of the total project area. The estimated project cost is Rs.175 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.20 crores and the recurring cost (operation & maintenance) will be about Rs.1.45 crores per annum. Employment opportunity will be for 585 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. Ghatampur distributary is at 0.5 km (N), Rind nadi is at 1.5 km (SSW), Supanala is at 3.5 km (NNE) from the project site.

5. Total water requirement is estimated to be 3509 cum/day, which includes fresh water requirement of 1354 cum/day, proposed to be met from groundwater.

Effluent of 549 cum/day quantity will be treated through Effluent Treatment Plant (aerobic treatment, anaerobic treatment, filtration system and RO plant). Treated water of will be reused/recycled in the process/cooling tower. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement for the proposed project will be 3MW, which will be met from own Co-generation Power plant. Two DG sets of 1000 KVA capacity each will be installed as standby during power failure with a stack height of 9 m.

Rice husk/Indian coal fired boiler of 40TPH will be installed. Electrostatic Precipitator with a stack of 55m height will be provided to control the particulate emissions within the statutory limits.



By-products from the grain based operations (DDGS) shall be sold as cattle feed. Yeast sludge shall be sent to the sludge drying beds/added to the wet cake. ETP sludge will be dewatered using filter press and used as manure. Ash from the boiler will be given to brick manufacturing unit or used in soil amelioration.

6. The project/activity is covered under category B of item 5 (g) 'Distilleries' of the schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal/approval at state level. Due to project was submitted and appraised firstly before the Ministry's Notification dated 13th June, 2019, the project appraised at Central level in the Ministry.

7. Standard Terms of Reference for the project was issued on 24th March, 2018. Public Hearing for the proposed distillery project has been conducted by the Uttar Pradesh Pollution Control Board on 14th November, 2018.

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 J M EnviroNet 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 grain based distillery of 125 KLPD, malt spirit plant of 25 KLPD and co-generation Power Plant of 4.5 MW by M/s Rajasthan Liquors Limited at Village Chiraura, Tehsil Akbarpur, District Kanpur Dehat (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 1354 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.

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- (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 3.5% 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.

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

(u) Every production batch shall take prior approval from the concerned regulatory authority that raw grain is unfit for human consumption.

(v) Grain shall be tested for microtoxins from the govt laboratory and aware the workers related to grain dust. Regular medical check up campaign shall be carried out for the same. Mask and gloves shall be provided to the workers along with training.

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,

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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. 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 Water 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.


(Sharath Kumar Pallerla)
Scientist F

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, Jorbagh Road, **New Delhi**
6. Central Ground Water Authority, 18/11, Jamnagar House, Man Singh Road, **New Delhi**-110011
7. District Collector, **Kanpur Dehat** (Uttar Pradesh)
8. Guard File/Record File/Monitoring File/Website of MoEF&CC


(Sharath Kumar Pallerla)
Scientist F

Annexure-4

“Hazardous Waste Authorization
Letter”



UTTAR PRADESH POLLUTION CONTROL BOARD

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

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

Ref. No : 18566/UPPCB/KanpurDehat(UPPCBRO)/HWM/KANPUR DEHAT/2022

Dated :18/11/2022

To,

M/s AARTI DISTILLERIES PRIVATE LIMITED

Vill. Chiraura, Rajendra Chauraha, KANPUR DEHAT, 209304

Tehsil : AkbarPur

District : KANPUR DEHAT

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 18566 and 18/11/2022 .
2. Reference of application (No. and date) 18189449 and 12/10/2022 .
3. Mr CHETAN SHARMA of M/s AARTI DISTILLERIES PRIVATE LIMITED 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. Chiraura, Rajendra Chauraha, KANPUR DEHAT .

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	Used or Spent Oil (Sch-1, Cat-5.1)	Through TSDF/Authorized Recycler	1.5 MT/Annum

1. The authorization shall be valid for a period of 17/11/2027 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 .
15. The Unit will file the renewal application at least 2 months prior to the expiry of this Order.

B Specific Conditions of Authorization

1. 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.
2. 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.
3. An application for the renewal of an authorization shall be made in form 1, before its expiry as laid down in rule. It is further 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 Transboundary 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.
4. 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.
5. 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.
6. The authorized person 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.

7. 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.

8. It is within the powers and functions of the U.P. Pollution Control Board to modify / revoke the terms and conditions of the authorization issued under the Rule – 7 of Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

9. You are directed to install 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.

10. It is the mandatory duty of the authorized person to comply with the guidelines for transportation of hazardous waste in accordance with rule 18 of Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.

11. 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.

12. An ETP sludge/salt test report of a laboratory approved under E.P. Act shall be submitted along with compliance of this letter of this office.

13. Used oil shall be sold only to recyclers registered with U.P. Pollution Control Board. The record shall be maintained.

14. 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.

15. You shall have the valid membership of any common TSDF for S.L.F. (M/S U.P. Waste Management Project Kumbhi Kanpur Dehat or M/s Bharat Oil and Waste Management Ltd., Kumbhi, Akbarpur, Kanpur Dehat. permitted by U.P.P.C.B.), and start sending 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 three month of this letter. The authorized incinerator is with M/s Bharat Oil Company, Sahibabad, Ghaziabad for oily waste and paint sludge only.

16. You are required to store the hazardous waste safely and send it to TSDF/incinerator within stipulated time period.

17. This authorization 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.

RAJENDRA SINGH
(Authorized Signatory)
Digitally signed by
RAJENDRA SINGH
Date: 2022.12.02
09:03:38 +05'30'

UTTAR PRADESH POLLUTION CONTROL BOARD

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

Annexure-5

Ground Water NOC from UPPGWD



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: REG027994

VALID FROM 03/07/2021 TO 02/07/2026

Registration No.: 202106000262			
Name of the Owner	CHETAN SHARMA		
Address of the Applicant	3rd Floor, 7/22D, Tilak Nagar, Kanpur	Application Form Serial No.	KNPD0621RIN0013
Date of Submission	10/06/2021	Specimen Signature	
Company Name	AARTI DISTILLERIES PRIVATE LIMITED	Company Address	Village Chiraura, Block Sarbankhera, District Kanp
Location Particulars			
District	Kanpur Dehat	Block	SARVANKHERA
Plot No./Khasra No.	Existing premises khasra detail attached	Municipality/Corporation	No
Ward No./Holding No.			NA
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/04/2021		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	100.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	15.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	50.00
Date of Energization (In Case of Electric Pump)		01/04/2021	
Approx. Strainer Length (For Tube Well)	0.00	Diameter (For Dug Well)	0.00
Maximum Allowable Rate of Withdrawal (m³/hr.):	50.00	Maximum Allowable Running Hours Per Day:	7.00
Maximum Allowable Annual Extraction of Ground Water (m³/year):			119000
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Our existing NOC will be expired on 10/6/2021. Therefore, we are applying for renewal of NOC.		
Against Case	No		
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at SI. (3) for extraction of ground water at a rate not exceeding that as shown at SI. (3j), for Running Hours per day as shown at SI. (3k), and for maximum allowable annual extraction of ground water as shown at SI. (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 SI. (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 I 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 of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars I 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.
- (13) Any other condition imposed by the concerned Authority
- 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 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 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 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, 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.

Date :10/02/2022

Place:Kanpur Dehat

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: REG034600

VALID FROM 03/07/2021 TO 02/07/2026

Registration No.: 202106000261			
Name of the Owner	CHETAN SHARMA		
Address of the Applicant	3rd Floor, 7/22D, Tilak Nagar, Kanpur	Application Form Serial No.	KNPD0621RIN0014
Date of Submission	10/06/2021	Specimen Signature	
Company Name	AARTI DISTILLERIES PRIVATE LIMITED	Company Address	Village Chiraura, Block Sarbankhera, District Kanp
Location Particulars			
District	Kanpur Dehat	Block	SARVANKHERA
Plot No./Khasra No.	Existing premises khasra detail attached	Municipality/Corporation	No
Ward No./Holding No.			NA
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/04/2020		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	100.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	15.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	50.00
Date of Energization (In Case of Electric Pump)		01/04/2021	
Approx. Strainer Length (For Tube Well)	0.00	Diameter (For Dug Well)	0.00
Maximum Allowable Rate of Withdrawal (m³/hr.):	50.00	Maximum Allowable Running Hours Per Day:	10.00
Maximum Allowable Annual Extraction of Ground Water (m³/year):			170000
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Our existing NOC will be expired on 10/6/2021. Therefore, we are applying for renewal of NOC.		
Against Case	No		
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at SI. (3) for extraction of ground water at a rate not exceeding that as shown at SI. (3j), for Running Hours per day as shown at SI. (3k), and for maximum allowable annual extraction of ground water as shown at SI. (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 SI. (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 I 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 of.
- (11) Any other condition(s) that may be imposed by the concerned Authority.
- (12) In case, any of the particulars I 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.
- (13) Any other condition imposed by the concerned Authority
- 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 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 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 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, 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.

Date :10/02/2022

Place:Kanpur Dehat

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: REG048049

VALID FROM 03/07/2021 TO 02/07/2026

Registration No.: 202106000260			
Name of the Owner	CHETAN SHARMA		
Address of the Applicant	3rd Floor, 7/22D, Tilak Nagar, Kanpur	Application Form Serial No.	KNPD0621RIN0015
Date of Submission	10/06/2021	Specimen Signature	
Company Name	AARTI DISTILLERIES PRIVATE LIMITED	Company Address	Village Chiraura, Block Sarbankhera, District Kanp
Location Particulars			
District	Kanpur Dehat	Block	SARVANKHERA
Plot No./Khasra No.	Existing premises khasra detail attached	Municipality/Corporation	No
Ward No./Holding No.	NA		
Particular of the Existing Well and Pumping Device			
Date of Construction/Sinking of the Well	01/04/2021		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	100.00
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	15.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	50.00
Date of Energization (In Case of Electric Pump)		01/04/2021	
Approx. Strainer Length (For Tube Well)	0.00	Diameter (For Dug Well)	0.00
Maximum Allowable Rate of Withdrawal (m³/hr.):	50.00	Maximum Allowable Running Hours Per Day:	10.00
Maximum Allowable Annual Extraction of Ground Water (m³/year):			170000
Reason for renewal of N.O.C. एन.ओ.सी. के नवीनीकरण का कारण	Our existing Well NOC will be expired on 10/6/2021. Therefore, we are applying for renewal of NOC.		
Against Case	No		
This No-Objection certificate authorizes the owner applicant (user) to sink a well in the location specified at SI. (3) for extraction of ground water at a rate not exceeding that as shown at SI. (3j), for Running Hours per day as shown at SI. (3k), and for maximum allowable annual extraction of ground water as shown at SI. (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 SI. (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 I 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			

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- 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.
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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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 - 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 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.
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 - 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.

Date :23/09/2021

Place:Kanpur Dehat

This certificate is electronically generated and does not require digital signature

Annexure-6

Ground Water Quality Monitoring report.



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/PM09/TEST-REP/FT/46

TEST REPORT WATER & WASTE WATER ANALYSIS

Test Report Ref No. ETRC/1609/11818/2023	Date of Report: 16.09.2023
Name/Address/Type of Industry	Aarti Distilleries Private Limited Village: Chiraura, Tehsil: Akbarpur District: Kanpur Dehat (Uttar Pradesh)

SAMPLE DETAILS

1	Water/ Waste Water	Ground Water	5	Packing Condition	Sealed
2	Sample Description	Borewell	6	Sample Collected By	ETRC
3	Sample received date	12.09.2023	7	Analysis Start Date	12.09.2023
4	Sample Quantity	5.0 liters	8	Analysis End Date	16.09.2023

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	392.6	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	54.4	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	22.0	2.0 - 2000	250	1000
11	Fluoride as F	mg/l	APHA 23 rd Ed. 2017-4500 F ⁻ C	0.33	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⁻	28.0	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	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)	0.15	0.05 - 20	0.3	No Relaxation



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Test Report Ref No. ETRC/1609/11818/2023

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)	0.26	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. 2017-3112 B	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.
- 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-7

Green Belt photographs





















Annexure-8

Online Monitoring System Photographs









valbia

Via Industriale 30, Lumezzane SS (BS) Italy
www.valbia.it



II 2 G/D c T6
file n. A0303

CODE **82SR0012** TYPE **SR 63 S.05** YEAR **2021**
WORKING PRESS **8 Bar Max** WORKING TEMP. **-20°C + 85°C**
VALVE ACT. ATTACHMENT **F05 F07 Q14** BATCH N. **38 DB**

PATENTED - For maintenance refer to instructions manual

FORBES
MARSHALL



Forbes Marshall Pvt Ltd.

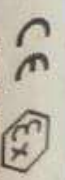
Industrial Area
Forbes Phasell, Chakan
B-85, Phasell, Chakan, Tal Khed,
Sawardari, Chakan, Tal Khed,
Dist Pune - 410501

SR NO. FMDCEM21XX - 22029 TRX1

Made In India



Via Industriale 30, Lumezzane SS (BS) Italy
www.valbia.it



11 2 Q/D c T 6
file n. A0303

CODE **82SR0012** TYPE **SR 63 S.I.5** YEAR **2021**

WORKING PRESS **8 Bar Max** WORKING TEMP. **-20°C+ 85°C**

VALVE ACT. ATTACHMENT **F05 F07 Q14** BATCH N. **34 DB**

PATENTED - For maintenance refer to instructions manual

Annexure-9

Environmental Monitoring reports



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

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ETRC/PM09/TEST-REP/FT/44

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No. ETRC/1609/11812/2023		Date of Report: 16.09.2023	
Name/Address/Type of Industry		Aarti Distilleries Private Limited Village: Chiraura, Tehsil: Akbarpur District: Kanpur Dehat (Uttar Pradesh)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Near Construction Office	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM ₁₀	DETAILS-PM _{2.5}
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	51	51
(d)	Average ambient temperature (°C)	25	25
(e)	Time of Sampling Started (Hours)	08:46 am (11/09/2023)	08:46 am (11/09/2023)
(f)	Time of Sampling completed (Hours)	08:20 am (12/09/2023)	08:20 am (12/09/2023)
(g)	Total time of sampling (minutes)	24 hour (1421 minutes)	24 hour (1421 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 (m³) - GAS (liter)	1628.816 710.4	23.679

TEST RESULT

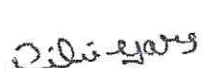
Sr. No.	Particulars	Protocol	Unit	Result	Range of testing /limit of detection	Standard as per NAAQS; dated 18/11/2009
1	Particulate matters size less than 10 µm (PM ₁₀)	IS: 5182 (Part-23): 2006 Reaffirmed: 2017	µg/m ³	85.2	5.0 - 1200	For 24 hour =100
2	Particulate matters size less than 2.5 µm (PM _{2.5})	IS: 5182 (Part-24): 2019	µg/m ³	49.41	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.25	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	22.16	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)
QM



ENVIRONMENTAL AND TECHNICAL RESEARCH CENTRE

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ETRC/PM09/TEST-REP/FT/44

TEST REPORT AMBIENT AIR QUALITY MONITORING REPORT

Test Report Ref No. ETRC/1609/11813/2023		Date of Report: 16.09.2023	
Name/Address/Type of Industry		Aarti Distilleries Private Limited Village: Chiraura, Tehsil: Akbarpur District: Kanpur Dehat (Uttar Pradesh)	
Monitored by		ETRC, Lucknow	
Location of Sampling points		Adjacent to Swadishth Oil Mill	
Sr. No.	GENERAL OBSERVATIONS	DETAILS-PM ₁₀	DETAILS-PM _{2.5}
1(a)	Weather conditions	Clear	Clear
(b)	Wind direction	West to East	West to East
(c)	Average humidity (%)	51	51
(d)	Average ambient temperature (°C)	25	25
(e)	Time of Sampling Started (Hours)	08:55 am (11/09/2023)	08:55 am (11/09/2023)
(f)	Time of Sampling completed (Hours)	08:31 am (12/09/2023)	08:31 am (12/09/2023)
(g)	Total time of sampling (minutes)	24 hour (1429 minutes)	24 hour (1429 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)	• 1650.726	• 23.816
	• GAS (liter)	• 714.6	

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	83.4	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	49.97	2.0 - 500	For 24 hour =60
3	Sulphur Dioxide (SO ₂)	IS: 5182 (Part-2): 2001 Reaffirmed: 2017	µg/m ³	14.25	5.0 - 1050	For 24 hour =80
4	Oxides of Nitrogen (NO _x)	IS: 5182 (Part-6): 2006 Reaffirmed: 2017	µg/m ³	21.49	6.0 - 750	For 24 hour =80

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

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(Sandeep Kr Verma)
Lab-Incharge




Authorized Signatory
(Ritu Garg)
QM



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ETRC/PM09/TEST-REP/FT/47

TEST REPORT AMBIENT NOISE MONITORING AND ANALYSIS REPORT

Test Report Ref No. ETRC/1609/11817/2023		Date of Report: 16.09.2023
Name/Address/Type of Industry		Aarti Distilleries Private Limited Village: Chiraura, Tehsil: Akbarpur District: Kanpur Dehat (Uttar Pradesh)
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
(a)	Date of monitoring	11/09/2023 (6:00 AM) to 12/09/2023 (6:00 AM)
(b)	Sample Description	Ambient Noise
(c)	Sampling Location	Near Project Site
(d)	Environmental Condition	Normal

TEST RESULT

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)	63.20	50.48

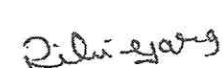
Noise Standards as per CPCB Schedule rule 3(1) and 4(1)			
Area Code	Category of Area/Zone	Limits in dB(A) Leg	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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ETRC/PM09/TEST-REP/FT/45

TEST REPORT STACK EMISSION MONITORING AND ANALYSIS REPORT

Test Report Ref No. ETRC/1609/11814/2023		Date of Report: 16.09.2023
Name/Address/Type of Industry		Aarti Distilleries Private Limited Village: Chiraura, Tehsil: Akbarpur District: Kanpur Dehat (Uttar Pradesh)
Monitored by		ETRC, Lucknow
Sr. No.	GENERAL INFORMATION	DETAILS
1.(a)	Date of monitoring	11.09.2023
(b)	Stack material	RCC
(c)	Height of stack from ground level	55.0 mts
(d)	Source to which stack attached	Boiler
(e)	No of boiler attached with capacity	01 No. (40.0 TPH)
(f)	Type and quantity of fuel used	Coal
(g)	Details of APCS installed	ESP
2.	PARAMETERS	VALUES
(a)	Ambient temperature (°C)	31.0
(b)	Stack gas temperature (°C)	129.0
(c)	Stack gas velocity (m/sec)	11.91
(d)	Flow rate (LPM)	17
(e)	Sampling time (minutes)	60
(f)	Volume of air sampled (liters)	1020

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	44.8	2.0 - 1000	150

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ETRC/PM09/TEST-REP/FT/48

TEST REPORT SOIL ANALYSIS

Test Report Ref No. ETRC/1609/11819/2023	Date of Report: 16.09.2023
Name/Address/Type of Industry	Aarti Distilleries Private Limited Village: Chiraura, Tehsil: Akbarpur District: Kanpur Dehat (Uttar Pradesh)

SAMPLE DETAILS

1	Sampling Location	Project Site	5	Packing Condition	Sealed
2	Sample Description	Soil Sample	6	Sample Collected By	ETRC
3	Sample received date	12.09.2023	7	Analysis Start Date	12.09.2023
4	Sample Quantity	1.0 kg	8	Analysis End Date	16.09.2023

TEST RESULT

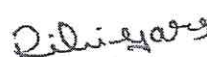
Sr. No.	Test Parameter	Unit	Protocol/Test Method	Result	Range of testing /limit of detection
1	pH	-	IS: 2720 (Part-26): 1987 Reaffirmed: 2021	7.3	1 - 14
2	Electrical Conductivity	µs/cm	IS: 14767: 2000 Reaffirmed: 2021	302.0	1.0 - 40000
3	Moisture Contents	%	IS: 2720 (Part-2): 1973 Reaffirmed: 2020	3.14	1.0 - 50
4	Copper as Cu	mg/kg	ETRC/LABSOPS/07 Issue. 1 Dated. 10.08.2015	0.86	0.3 - 500
5	Zinc as Zn	mg/kg	ETRC/LABSOPS/08, ISSUE NO.1 Dated 10.08.2015	16.20	1.0 - 500
6	Iron as Fe	mg/kg	ETRC/LABSOPS/09, ISSUE NO.1 Dated 10.08.2015	282.0	5.0 - 500
7	Manganese as Mn	mg/kg	ETRC/LABSOPS/09, ISSUE NO.1 Dated 10.08.2015	51.3	5.0 - 500
8	Sulphur	mg/kg	IS: 14685: 1999 Reaffirmed: 2019	16.4	5.0 - 100

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(Ritu Garg)
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Annexure-10

Rain Water Harvesting Structure Photographs











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MI DUAL CAMERA



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Annexure-11

Published information (in newspapers)

Publication in Newspaper – dated 14.10.2020

1. Name & Address of the Office
2. Name of the Engineer, E&I, Civil, Electrical
3. Name of the Engineer, E&I, Civil, Electrical
4. Name of the Engineer, E&I, Civil, Electrical

1. Name & Address of the Office
2. Name of the Engineer, E&I, Civil, Electrical
3. Name of the Engineer, E&I, Civil, Electrical
4. Name of the Engineer, E&I, Civil, Electrical

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आरती डिस्टिलरीस प्राइवेट लिमिटेड
ग्राम-चिरीरा, तहसील-अकबरपुर, कानपुर जिला

सार्वजनिक सूचना

आप सभी को सूचित किया जाता है कि पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय द्वारा मैसर्स आरती डिस्टिलरीस प्राइवेट लिमिटेड, ग्राम-चिरीरा, तहसील-अकबरपुर, कानपुर जिला - 208304, को ई.सी. फाइनल नं. J-11011/58/2018-IA-III(II) दिनांक 14.09.2020 के द्वारा 125 कि.मी. प्रतिदिन अनाज आवधारित, 25 कि.ली. प्रतिदिन मॉल्ट स्ट्रिट फ्लाट तथा 4.5 MW को-जनेरेशन पावर प्लांट स्थापित किए जाने की पर्यावरण स्वीकृति प्रदान की गई है। पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय द्वारा जारी पर्यावरण स्वीकृति की प्रति विभाग की वेबसाइट <http://moef.nic.in> एवं उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड के पारा उपलब्ध है।

मैसर्स आरती डिस्टिलरीस प्राइवेट लिमिटेड
ग्राम-चिरीरा, तहसील-अकबरपुर, कानपुर जिला, उत्तर प्रदेश - 208304