

Date-21.11.2023

To,  
The Director  
Ministry of Environment & Forests,  
Government of India,  
Regional Office (Northern Region),  
5<sup>th</sup> Floor, Kendriya Bhawan, Sector-H, Aliganj,  
Lucknow-226024.

**Sub: - Present status of 160 KLPD Distillery Unit of M/s Bajaj Hindusthan Limited at Gangnauli, Distt. Saharanpur (U.P.).From April 2023 to Sep 2023.**

Respected Sir,

Please refer subject under reference the point wise status is as under:

S.N	Details of Points	Present Status
1	Data sheet Part-1	Enclosed as annexure-1
2	Environmental Compliance	Enclosed as annexure-2
3	Copy of Air consent	Enclosed as annexure-3
4	Copy of Water consent	Enclosed as annexure-4
5	Details of Environmental Management Cell	Enclosed as annexure-5
6	Details of Water used per day Effluent generation etc	Enclosed as annexure-6
7	Ambient Monitoring report	Enclosed as annexure-7
8	Noise level report	Enclosed as annexure-8
9	Ground Water Quality Report	Enclosed as annexure-9
10	Soil Analysis Report	Enclosed as annexure-10
11	Effluent Analysis Report	Enclosed as annexure-11
12	Stack Emission Monitoring Report	Enclosed as annexure-12
13	Details of lab. Equipment	Enclosed as annexure-13
14	Details of Green Belt	Enclosed as annexure-14
15	Details of the expenditure in The environmental management	Enclosed as annexure-15
16	Medical Certificate of Employees	Enclosed as annexure-16

We hope above are in order and for further clarification/ information, we will submit the same immediately.

Thanking You,

Yours faithfully

For Bajaj Hindusthan Sugar Ltd.

(V.P.Gaur)  
V.P (Distillery)

  
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## DATA SHEET

<b>1</b>	<b>Project Type</b>	Distillery
<b>2</b>	<b>Name of the project</b>	Bajaj Hindusthan Sugar Ltd. (Distillery Unit) Gangnauli, Distt. Saharanpur (U.P.)
<b>3</b>	<b>Clearance letter /OM No&amp; Date:</b>	J 11011/ 340/2006-IA II (I) Dated 07-12-2006
<b>4</b>	<b>Location:</b>	
a	District (S)	Saharanpur
b	State	U.P.
<b>5</b>	<b>Address For the correspondence</b>	
a	Address of concerned project chief (with pin code & telephone /Telex/fax numbers)	Bajaj Hindusthan Sugar Ltd. (Distillery Unit) Gangnauli, Distt. Saharanpur (U.P.) Ph- 01336-235402, Fax-01336-235402
b	Address of Executive project engineer (with pin code & telephone /Telex/fax numbers)	Bajaj Hindusthan Sugar Ltd. (Distillery Unit) Gangnauli, Distt. Saharanpur (U.P.) Ph- 01336-235402, Fax-01336-235402
<b>6</b>	<b>Salient Features</b>	
a	Of the Project	Bajaj Hindusthan Sugar Ltd. Has installed new distillery at Gangnauli Distt. Saharanpur-247001(U.P.) in the premises of sugar factory. The capacity of plant is 160 KLPD Rectified Spirit / Absolute Alcohol with semi continuous fermentation technology with installed Fluidized bed heat exchanger (FLUBEX) as integrated evaporation system.
b	Of the Environmental Management plans	Existing distillery is based on zero discharge technology in which 100% spent Wash is being consumed in manufacturing of Bio-Compost after Biomet enation & Concentration in MEE and other points covered in EIA report.
<b>7</b>	<b>Break up the project area</b>	60 acres Non forest area 1. Plant and Machinery-7.5 acres 2. Bio-Compost area-31.6 Acres 3. Lagoon -10.00 Acres 4. Green belt- 30.47 Acres 5. Biogas plant-2.9 Acres
a	Submergence area (forest & Non forest)	Non Forest
b	Others	

  
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<b>8</b>	<b>Break up the project affected population with enumeration of those losing houses / dwelling unit only unit and agricultural land less laborers / artisans.</b>	
a	SC/ST	N.A.
b	Others	
c	Numbers of villages Affected	
d	Name & other particulars of identified area for settlement.	
e	Compensation package	
f	Budget	
g	Status	
	(Please indicate whether these figures are passed on any scientific survey carried out on only provisional figure. If a survey is carried out give details and year of survey.	
<b>9</b>	<b>Financial details</b>	
a	Project Cost as originally planned subsequent revised estimates and year of price reference	80 .0 Crores
b	Allocations made for environment managements plans, with -item wise and year-wise break up.	15.842 Crores
c	Benefit cost ratio/ internal rate of return and the year of assessment.	
d	Whether (c) include the cost of environmental Management as shown in (b) above	
e	Biogas Plant	14.0 Crores
f	Five Effect MEE Plant	14.0 Crores
g	Condensate Treatment Plant	2.5 Crores
h	R.O. Plant	2.5 Crores
i	Incinerator Boiler	60 Crores
j	CPU Plant	6.0 Crores
	Actual expenditure incurred on the project so far	194.84 Crores
k	Actual Expenditure incurred on the Environmental Management plans so far.	114.84 Crores
<b>10</b>	<b>Forest land requirement</b>	NA
a	The status of approval for a diversion of forest land for forest use	NA
b	The status of Compensatory a forestation, if any	NA
c	The status of the clear filling	
d	Comments of the viability & sustainability of compensatory a forestation program in the light of actual field experience so far.	NA
<b>11</b>	<b>The status of clear felling in non-forest area.</b>	NA
<b>12</b>	<b>Status of Construction</b>	
a	Date of Commencement (actual and /of planed)	16.04.2006
b	Dated of completion (actual and /of planned)	16.02.2007
<b>13</b>	<b>Reasons for the delay if project is yet to start</b>	NA
<b>14</b>	<b>Environment clearance condition wise compliance report.</b>	Enclosed as annexure 2

Signature with Seal


Unit – Distillery, Gangnauli, Distt. – Saharanpur-247001

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**Annexure -2**

**Sub.: Compliance report of Environmental Clearance No J- 11011 / 340 / 2006-IA II (I) dated 07.12.2006 issued for installation of 160 KLPD new Distillery unit by Bajaj Hindusthan Ltd. at Gangnauli, Saharanpur (U.P)**

SI No.	Specific conditions	
	Details	Action Details
1.	The industry shall ensure that the treated effluent and stack emissions from the Unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/ failure of Pollution Control Equipment adopted by the Unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Treated effluent and stack emission has been kept within norms through incorporation of State of Art Technology and plant is stopped immediately in case of process disturbance/failure.
2.	The Company shall adopt continuous fermentation technology. For treatment of Spent wash, for the initial two years the same shall adopt concentration followed by Bio-Composting and after two years the same shall be shifted to Incineration. As reflected in the EMP, the spent wash shall be concentrated in Fluidized Bed Heat Exchangers (FLUBEX) as the Integrated Evaporation System and it will be ensured that the spent wash generation shall not exceed 10KL/KL of alcohol produced. The concentrated Spent wash (800 M <sup>3</sup> /d) shall be Bio-Composted with press mud. No effluent shall be discharged outside the Factory premises and zero discharge shall be strictly followed. Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company earmarks an area of 31.6 Acres for Bio-composting storage of finished products etc. The compost yard shall be made impervious as per the CPCB guidelines.	Bio-compost plant has already been installed in the area of 31.6 acres and operational as per CPCB guidelines but after installation of incineration boiler Bio Gas & Bio-compost plant has been closed. Further Five effect Evaporator plant, CPU & R.O. Plant installed and also being operated efficiently & Zero Discharge condition is being maintained.
3.	The company shall install ventury type high efficiency Wet Scrubber and a stack of 45 meter height to control the emissions from the bagasse fired Boiler to achieve the particulate emissions within the prescribed standards.	Steam is supplied by existing sugar plant having Wet Scrubber with 65 meter height stack to maintain the emission well below 150mg/NM <sup>3</sup> but after installation of incineration boiler in Distillery unit new stack height 90 meter with ESP and emission is below 150 mg/nM <sup>3</sup> .

  
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4.	Emission Rate of various pollutants in g/sec may be provided within 15 Days of the issue of this letter.	Emission Rate as per norms is below 0.083 g/sec.
5.	The spent wash shall be stored in impervious pukka lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation, Storage shall not exceed 30 Days capacity.	Impervious storage Lagoon With less than 30 days capacity has been made with HDPE lining as per CPCB guidelines.
6.	The Company shall obtain Permission from the Central Ground Water Board for drawl of ground water.	Permission from the Central Ground Water Board for drawl of ground water is under process and being submitted once obtained.
7.	Adequate numbers of ground water quality monitoring stations shall be set up around the compost plant and the project area. These monitoring stations will be provided with piezometers. Sampling and trend Analysis Monitoring must be made on Monthly a basis and report submitted to SPCB and this Ministry. The company shall carry out regular analysis of compost, Leachate for BOD and ph.	Piezometers for ground water quality monitoring stations have already been installed. Regular analysis ground water has been done and report is submitted regularly. Report also been attached for reference. By NABL & Gov. approved laboratory (M/s Environment Management Centre) Annexure-9
8.	The operation of Distillery shall be restricted to 270 days and that it will not operate during rainy season.	Distillery will be operated only for 270 days. In rainy season the operation remains stopped but .We have switch over to Incineration mode .We have already installed the upgraded treatment system. Dismantling of Bio-Composting yard. we get the permission of 365 Days operation from UPPCB and new consent copy is attached as Annexure- 2&3.
9.	As per the undertaking submitted by the Proponent, Green Belt of adequate width and density in 33% of the total plant area shall be provided to mitigate the effects of fugitive emissions all around the plant and compost yard as per the CPCB guidelines in consultation with local DFO.	Provision of green belt in 33% of total plant area has already been taken and plantation is being maintained as per CPCB guidelines & DFO advice and as per UP Govt requirement. Also green belt area is maintained more than 33% tentatively.  Annexure-14

  
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10.	Company shall adopt Rainwater-harvesting measures to recharge the ground water.	Provision for rain water harvesting is installed to recycle the rain water from Go downs roof.
11.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The First aid facilities in the occupational health center shall be strengthened and the medical records of each employee shall be maintained separately.	Surveillance programme is already in our system and medical records of each employee are also maintained.
<b>S.N.</b>	<b>General conditions</b>	
	<b>Details</b>	<b>Action Details</b>
1.	The project authorities must strictly adhere to the stipulations made by the Uttar Pradesh State Pollution Control Board and the State Government.	Being adhered as per the stipulation made by UPPCB and State Government from the start of project.
2.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	No expansion or modification job is taken up without prior approval of MoEF.
3	Ambient Air Quality Monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> , NO <sub>x</sub> , are anticipated in consultation with State Pollution Control Board.	Air quality monitoring stations has already been set up in consideration of maximum ground level concentration of SPM, SO <sub>2</sub> , NO <sub>x</sub> in consultation with UPPCB. Report also been attached for reference. By NABL & Gov. approved laboratory M/s Environment Management Centre Annexure-7
4	The overall Noise level in and around the plant area shall be kept well within the standards (85 dBA) by providing Noise Control measures acoustic hoods, silencers, enclosures etc on all sources of noise generation. The ambient Noise levels should conform to the standards prescribed under EPA rules, 1989 viz 75 dBA (night time).	Noise control measures has already been taken and enclosures has been put to keep the noise level well within the 85 dBA and ambient level below 75 dBA (day time) and 70 dBA (night time). Report also been attached for reference. By NABL & Gov. approved laboratory M/s Environment Management Centre Annexure-8
5	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	Environmental protection measures has been taken and implemented for effective compliance of safe guards recommended in EIA/EMP reports.
6	The separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	Environmental Management Cell is in place and lab equipments have been installed in order to carry out Environmental management and monitoring functions. Annexure-5

  
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7	The project authorities shall provide funds of Rs. 16.00 crores, as mentioned in the no. xix of the questionnaires as capital cost for the environmental protection measures. Separate funds for recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government shall be kept. Also the implementation schedule for all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.	Dedicated fund of Rs.114.8 crores has been utilized so far for implementation of conditions stipulated by statutory authorities.
8	The implementation of the project vis-à-vis environmental action plans will be monitoring by Ministry's Regional Office at Lucknow / State Pollution Control Board/ CPCB. A six monthly compliance status report along with the monitored data shall be submitted to the monitoring agencies.	Six monthly compliance status report along with data is submitted to UPPCB/CPCB/MoEF in stipulated time.
9	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 state Pollution Control Board / Committee and may also be seen at website of the MoEF at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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 Regional Office.	Environmental clearance details have already been published in two local news papers for public information as enclosed.
10	The project Authorities shall informed the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Land development work has started on 10 <sup>th</sup> December, 2006 and operation work has Started on Dated- 16 February, 2007.
11	The Ministry may Revoke or suspension the clearance, if implementation of any of the above conditions is not satisfactory.	Concerted efforts have been put for implementation of all condition as directed.
12	The Ministry reserves that the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.	Environmental protection measures as stipulated have been completed with time frame.
13	The above condition will be enforced along	Provision of Compliance of Water

  
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with the provisions of the water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules hereunder.	(Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability along with above conditions is also be complied as directed.
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Unit - Distillery, Gangnauli, Distt. - Saharanpur-247001

  
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Annexure - 3,4



**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

169911/UPPCB/Saharanpur(UPPCBRO)/CTO/both/SAHARANPUR/2022

Date: 25/11/2022

To,

M/s

**BAJAJ HINDUSTHAN SUGAR LIMITED DISTILLERY UNIT GANGNAULI SAHARANPUR U P**

Bajaj Hindusthan Sugar Ltd,vill - Gangnauli, post- tanshipur,Nagal,  
Dist- Saharanpur, UP,SAHARANPUR,247551

Application Id-  
18620001

**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 **BAJAJ HINDUSTHAN SUGAR LIMITED DISTILLERY UNIT GANGNAULI SAHARANPUR U P** located at **Bajaj Hindusthan Sugar Ltd,vill - Gangnauli, post-tanshipur,Nagal, Dist- Saharanpur, UP,SAHARANPUR,247551.** 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 **BAJAJ HINDUSTHAN SUGAR LIMITED DISTILLERY UNIT GANGNAULI SAHARANPUR U P** granted for the period from **01/01/2023 to 31/12/2024** and valid for manufacturing of following products.

S No	Product	Quantity	Unit
1	RS/ETHANOL BY USING C-HEAVY MOLASSES OR	160	Kilo Liters/Day
2	RS/ETHANOL BY USING B-HEAVY MOLASSES/SUGAR SYRUP	200	Kilo Liters/Day

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	5.0 KLD	STP	STP
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 :-

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### Industrial Effluent Quality Standard

S.No.	Parameter	Standard
1	COD	AS PER E(P) RULES, 1986
2	BOD	AS PER E(P) RULES, 1986
3	pH	AS PER E(P) RULES, 1986
4	OIL AND GREASE	AS PER E(P) RULES, 1986
5	TOTAL SUSPENDED SOLIDS	AS PER E(P) RULES, 1986

(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	AS PER E(P) RULES, 1986
2	BOD (mg/L)	AS PER E(P) RULES, 1986
3	TSS (mg/L)	AS PER E(P) RULES, 1986
4	Fecal Coliform (MPN/100ml)	AS PER E(P) RULES, 1986

### 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	1 X 60 TPH INCINERATION BOILER	SPENT WASH (SLOPE)- 564 MT/DAY AND BEGASS E-400 MT/DAY	01	Particulate Matter	90 METER STACK HEIGHT FROM GROUND LEVEL ALONG WTH ESP

#### Emmission Quality Standards

S No.	Stack no	Parameters	Standards
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1	01	Particulate Matter	AS PER E(P) RULES, 1986
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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.

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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 consent is valid for the production capacity of RECTIFIED SPIRIT/ETHANOL-160 KL/DAY BY USING RAW MATERIAL C-HEAVY MOLASSES-727 MT/DAY OR RECTIFIED SPIRIT/ETHANOL-200 KL/DAY BY USING RAW MATERIAL B-HEAVY MOLASSES-666 MT/DAY/SUGAR SYRUP-645 MT/DAY at site VILLAGE- GANGNAULI, POST-TANSHIPUR, TEHSIL-DEOBAND, DISTRICT-SAHARANPUR, U.P.
- 2- The industry must complied the conditions of NOC issued to unit from the UPGWd for abstraction of ground water.
- 3- No plant and machinery shall be installed in the industry without obtaining CTE from UPPCB.
- 4- This consent is valid only for Zero Liquid Discharge (ZLD). No effluent is allowed to discharge outside the factory premises.
- 5- 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.
- 6- 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.
- 7- The unit must submit the copy of TSDF agreement in the Board within a month.
- 8- The unit shall maintain strict supervision upon fluctuations in operating parameters with respect to each treatment unit of the Effluent treatment plant.
- 9- The E.T.P. unit operation line up Strengthening is to be maintained.
- 10- 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.
- 11- Flow meter to be installed in all water abstraction points and usage of fresh water to be minimized.
- 12- The industry shall strictly comply with conditions mentioned in the charter on CREP prepared by CPCB.
- 13- 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.

14- 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.

15- 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.

16- 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.

17- 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.

18- 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.

19- 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.

20- 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.

21- 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.

22- 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.

23- 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.

24- The storage capacity of the lagoons installed for more than 7 days holding capacity of the concentrated spent wash shall be dismantled within one months and progress submitted to the Board.

25- Bio Composting shall not be done in the industry. The spent wash generated from the industry shall be used completely in Incineration Boiler. No effluent is allowed to discharge outside the factory premises.

26- All generate thin Slope shall be used in MEE and Incineration Boiler.

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

28- 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.

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

30- The industry shall operate 60 TPH Incineration Boiler with ESP and 90 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.

31- 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.

32- 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.

33- 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).

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

PRADEEP SHARMA  
Digitally signed by PRADEEP SHARMA  
Date: 2022.12.02 14:23:35 +05'30'

35- This consent is valid for 365 days operation of the industry of a year.

36- 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.

37- The use of Pet coke and Furnace oil as a fuel in the factory is restricted in compliance of the Hon'ble Supreme court order.

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](http://www.uppcb.com/pdf/Green-Belt-Guidle_160218.pdf).

**PRADEEP SHARMA** Digitally signed by PRADEEP SHARMA  
Date: 2022.12.02 14:23:45 +05'30'

**Chief Environmental Officer (Circle 3)**

Copy to:

Regional Officer, U.P. Pollution Control Board, Saharanpur to ensure the compliance of the conditions imposed in the certificate.

**PRADEEP SHARMA** Digitally signed by PRADEEP SHARMA  
Date: 2022.12.02 14:23:54 +05'30'

**Chief Environmental Officer (Circle 3)**

**ENVIRONMENTAL MANAGEMENT CELL**

SN	Name	Designation	Responsibility
1	Dr.A.V Singh	CSO (EHS)	Overall Responsible for Group Environment
2	Mr.Brajesh Sristava	A.V.P (E.H.S)	Overall Responsible for Group Environment
3	Mr. V.P.Gaur	V.P.(Distillery)	Overall control of the Distillery including Environment
4	Mr.Manoj Balyian	Production Head	Overall control of Plant Operation
5	Mr. Akhil Rathi	A.G.M (HR)	Overall control of personal & Administration
6	Mr.Devesh Ku. Singh	Addl.Mgr -EHS	Responsible for the ETP & EHS.
7	Mr. Santosh Kr. Yadav	Sr. Officer- Horticulture	Responsible for the green Belt Development.
8	Dr.Vinod Kumar	Medical Officer	Responsible for Occupational health.
9	Mr.Rishi Kumar Singh	A.M -Safety	Responsible for the Control of Safety.
10	Mr. Rakesh Tripathi	Engg.Head	Responsible for the Control of engg.related work.
11	Mr.Naveen Dubey	A.G.M (ENGG.)	Responsible for mentience work.

1. Water Consumption:  
(KL/Day)
  - Industrial : 750
  - Domestic : 4.0
  
2. Effluent Generated  
(KL/Day) :
  - Industrial : 400 after Multi effect Evaporator
  - Domestic : 4.0 KL Domestic Effluent Treated through
  
3. Effluent Treated (KL/Day)
  - Industrial : 400 Concentrated effluent used in Incinerator Boiler to Achieve ZLD
  - Domestic : Domestic Effluent Treated through STP
  
4. Effluent discharged : Entire Industrial Concentrated effluent Used in Incinerator Boiler to Achieve ZLD & Entire Domestic treated effluent used in Horticulture

**Factory :** Unit – Distillery, Gangnauli, Distt. – Saharanpur-247001.



**NABL ACCREDITED, GOVT. APPROVED & ISO CERTIFIED LAB**

Annexure-1

**AMBIENT AIR QUALITY ANALYSIS REPORT**

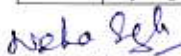
Report No. ET&A/AAQ/65790/23	Laboratory Sample Code : EMC/AAQ/65854/23	Date: 17.08.2023
Work Order No. & Date : 65790/23 & 10.08.2023		
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)	Order Reference: Through e-mail
Production Capacity of Plant	160 KLPD RS/ENA/AA	

**SAMPLING DETAILS**

Sample Description/Type	Ambient Air Monitoring	Sample Collected by	Laboratory Representative
Sampling Location	<b>At the roof of Sugar Admin Office (Station No. 02)</b>	Sample Quantity / Packing	Filter Paper PM <sub>10</sub> :1*1 No. Filter Paper PM <sub>2.5</sub> :1*1 No.1*30 ml. Each for SO <sub>2</sub>
Date of Sampling	10.08.2023 (8:00 A.M.) to 11.08.2023 (8:00 A.M.)	Date of Receipt of Sample	11.08.2023
Sampling Procedure	CPCB Guidelines and IS 5182 Part 23; 2006, Reaff.2022; Part 2: 2001 Reaff.2017; Part 6: 2006, Reaff.2022 Part 10: 1999 Reaff. 2019		
Date of Start of Analysis	12.08.2023	Date of Completion of Analysis	17.08.2023
Ambient Temperature (°C)	23.6	Sampling Duration (in hrs)	24
Humidity (%)	58		
Sampling Flow Rate for SPM (LPM)	1.30	Sampling Flow Rate For Gas (LPM)	1.0
Equipment Used	APM 550, APM 660	Placement of Sampling Machine from GL.	2.5 Mtr.
Weather Condition	Clear	Wind Direction	North East to South West

**TEST RESULTS**

S.No.	Parameter	Unit	Standard Method	Results	Specification/Desirable Limit
1.	Particulate Matters (PM <sub>10</sub> )	µg/m <sup>3</sup>	IS:5182 (Part -23) 2006 Reaff.2022 Gravimetric method	30.8	For 24 Hrs=100
2.	Particulate Matters (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	As per USEPA & CPCB / MoEF guidelines volume 1 NAAQMS/36; 2012 – 2013,	11.6	For 24 Hrs=60
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS: 5182 (Part-2) 2001 Reaff. 2017, Gravimetric method	6.2	For 24 Hrs =80
4.	Nitrogen Dioxides (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS:5182 (Part-6) -2006 Reaff.2022	12.4	For 24 Hrs =80

 Checked by  


 Authorized Signatory  
 Director  

**Remarks**

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- Result in parentheses is from subcontractor.

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 Roorkee - 247 667 (Uttarakhand)


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Annexure - 7

### AMBIENT AIR QUALITY ANALYSIS REPORT

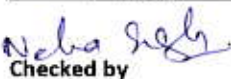
Report No. ET&A/AA/65793/23	Laboratory Sample Code : EMC/AAQ/65857/23	Date: 17.08.2023
Work Order No. & Date : 65793/23 & 11.08.2023		
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)	Order Reference: Through e-mail
Production Capacity of Plant	160 KLPD RS/ENA/AA	

#### SAMPLING DETAILS

Sample Description/Type	Ambient Air Monitoring	Sample Collected by	Laboratory Representative
Sampling Location	At Village – Gangnauli (Station No. 03)	Sample Quantity / Packing	Filter Paper PM <sub>10</sub> :1*1 No. Filter Paper PM <sub>2.5</sub> :1*1 No.1*30 ml. Each for SO <sub>2</sub>
Date of Sampling	11.08.2023 (9:00 A.M.) to 12.08.2023 (9:00 A.M.)	Date of Receipt of Sample	12.08.2023
Sampling Procedure	CPCB Guidelines and IS 5182 Part 23; 2006, Reaff.2022; Part 2: 2001 Reaff.2017; Part 6: 2006, Reaff.2022 Part 10: 1999 Reaff. 2019		
Date of Start of Analysis	13.08.2023	Date of Completion of Analysis	17.08.2023
Ambient Temperature (°C)	24.2	Sampling Duration (in hrs)	24
Humidity (%)	54		
Sampling Flow Rate for SPM (LPM)	1.40	Sampling Flow Rate For Gas (LPM)	1.3
Equipment Used	APM 550, APM 660	Placement of Sampling Machine from GL.	2.5 Mtr.
Weather Condition	Clear	Wind Direction	East to West

#### TEST RESULTS

S.No.	Parameter	Unit	Standard Method	Result	Specification/Desirable Limit
1.	Particulate Matters (PM <sub>10</sub> )	µg/m <sup>3</sup>	IS:5182 (Part -23) 2006 Reaff.2022 Gravimetric method	66.2	For 24 Hrs=100
2.	Particulate Matters (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	As per USEPA & CPCB / MoEF guidelines volume 1 NAAQMS/36; 2012 – 2013,	39.4	For 24 Hrs=60
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS: 5182 (Part-2) 2001 Reaff. 2017, Gravimetric method	18.2	For 24 Hrs =80
4.	Nitrogen Dioxides (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS:5182 (Part-6) -2006 Reaff.2022	14.2	For 24 Hrs =80

Checked by 



Authorized Signatory

Director

Environment Management Centre  
Khasra No. 1102, Indl Area,  
Salemput Rajputan, Roorkee

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Roorkee - 247 667 (Uttarakhand)



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Annexure 7

**AMBIENT AIR QUALITY ANALYSIS REPORT**

Report No. ET&A/AAQ/65789/23 Work Order No. & Date : 65789/23 & 10.08.2023	Laboratory Sample Code : EMC/AAQ/65853/23	Date: 17.08.2023
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)	Order Reference: Through e-mail
Production Capacity of Plant	160 KLPD RS/ENA/AA	

**SAMPLING DETAILS**

Sample Description/Type	Ambient Air Monitoring	Sample Collected by	Laboratory Representative
Sampling Location	<u>At the roof of Sugar ETP</u> (Station No. 01)	Sample Quantity / Packing	Filter Paper PM <sub>10</sub> :1*1 No. Filter Paper PM <sub>2.5</sub> :1*1 No. 1*30 ml. Each for SO <sub>2</sub>
Date of Sampling	10.08.2023 (7:30 A.M.) to 11.08.2023 (7:30 A.M.)	Date of Receipt of Sample	11.08.2023
Sampling Procedure	CPCB Guidelines and IS 5182 Part 23; 2006, Reaff.2022; Part 2: 2001 Reaff.2017; Part 6: 2006, Reaff.2022 Part 10: 1999 Reaff. 2019		
Date of Start of Analysis	12.08.2023	Date of Completion of Analysis	17.08.2023
Ambient Temperature (°C)	23.1	Sampling Duration (in hrs)	24
Humidity (%)	62		
Sampling Flow Rate for SPM (LPM)	1.20	Sampling Flow Rate For Gas (LPM)	0.90
Equipment Used	APM 550, APM 660	Placement of Sampling Machine from GL.	2.5 Mtr.
Weather Condition	Clear	Wind Direction	North East to South West

**TEST RESULTS**

S.No.	Parameter	Unit	Standard Method	Results	Specification/Desirable Limit
1.	Particulate Matters (PM <sub>10</sub> )	µg/m <sup>3</sup>	IS:5182 (Part -23) 2006 Reaff.2022 Gravimetric method	50.2	For 24 Hrs=100
2.	Particulate Matters (PM <sub>2.5</sub> )	µg/m <sup>3</sup>	As per USEPA & CPCB / MoEF guidelines volume 1 NAAQMS/36; 2012 – 2013,	16.8	For 24 Hrs=60
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS: 5182 (Part-2) 2001 Reaff. 2017, Gravimetric method	5.4	For 24 Hrs =80
4.	Nitrogen Dioxides (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS:5182 (Part-6) -2006 Reaff.2022	6.6	For 24 Hrs =80

 N. S. Singh  
 Checked by

 A. C. Gallow  
 Authorized Signatory  
 Director

**Remarks**

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 Environment Management Centre  
 Khasra No. 1102 Indl Area  
 Salempur Rajputan, Roorkee

**SOUND LEVEL MONITORING REPORT**

Test Report No. ET&A/SND/65792/23		Laboratory Sample Code :EMC/SND/65856/23		Date: 17.08.2023
Work Order No. & Date: 65792/23 & 11.08.2023				
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)	Order Reference		Through e-mail
Sample Description/Type	Sound Level Monitored	Sound Level Monitored by		Lab. Representative
Monitoring Location	<u>At Admin Office</u>	Sample Quantity / Packing		-
Date of Monitoring	11.08.2023	Date of Receipt of Monitoring data		12.08.2023
Sampling Duration	24 hrs	Equipment Used		Lutron SL-4033SD
Production Capacity of Plant	160 KLPD RS/ENA/AA			

**TEST RESULTS**

DAY TIME (6:00 AM – 9:00 PM) (in dB)		NIGHT TIME (9:00 PM – 6:00 AM) (in dB)		Requirement/ Desirable limit	Test Method
TIME	RESULTS	TIME	RESULTS		
6:00 AM-7:00 AM	43.4	9:00 PM – 10:00 PM	42.6	75-80 ( in dB )	IS:11446:1985 (Reaffirmed : 2001)  IS: 11702:1986 (Reaffirmed :2013)  IS: 4758:1968 (Reaffirmed :2017)
7:00 AM – 8:00 AM	39.6	10:00 PM – 11:00 PM	39.2		
8:00 AM – 9:00 AM	41.6	11:00 PM – 12:00 PM	45.5		
9:00 AM – 10:00 AM	48.7	12:00 PM – 1:00 AM	40.3		
10:00 AM – 11:00 AM	45.2	1:00 AM – 2:00 AM	46.7		
11:00 AM – 12:00 PM	50.5	2:00 AM – 3:00 AM	51.9		
12:00 PM – 1:00 PM	46.2	3:00 AM – 4:00 AM	43.5		
1:00 PM – 2:00 PM	42.8	4:00 AM – 5:00 AM	48.1		
2:00 PM – 3:00 PM	50.9	5:00 AM – 6:00 AM	38.6		
3:00 PM – 4:00 PM	52.3				
4:00 PM – 5:00 PM	55.6				
5:00 PM – 6:00 PM	37.8				
6:00 PM – 7:00 PM	46.2				
7:00 PM – 8:00 PM	48.1				
8:00 PM – 9:00 PM	36.5				
<b>AVERAGE :</b>	<b>45.69</b>	<b>AVERAGE :</b>	<b>44.04</b>		
<b>Leq.</b>	<b>48.6</b>	<b>Leq.</b>	<b>43.1</b>		

*Neha Singh*  
Checked by



*A.C. Gallow*  
Authorized Signatory  
Director  
Environment Management Centre

Khasra No: 1102, Indl. Area

Salempur Rajputan, Roorkee

**Remarks**

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*Annexure - d*

**SOUND LEVEL MONITORING REPORT**

Test Report No. ET&A/SND/65791/23		Laboratory Sample Code : EMC/SND/65855/23		Date: 17.08.2023
Work Order No. & Date: 65791/23 & 11.08.2023				
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)	Order Reference	Through E-mail	
Sample Description/Type	Sound Level Monitored	Sound Level Monitored by	Lab. Representative	
Monitoring Location	<u>Near Turbine Area</u>	Sample Quantity / Packing	-	
Date of Monitoring	11.08.2023	Date of Receipt of Monitoring data	12.08.2023	
Sampling Duration	24 hrs	Equipment Used	Lutron SL-4033SD	
Production Capacity of Plant	160 KLPD R5/ENA/AA			

**TEST RESULTS**

DAY TIME (6:00 AM – 9:00 PM) (in dB)		NIGHT TIME (9:00 PM – 6:00 AM) (in dB)		Requirement/ Desirable limit	Test Method
TIME	RESULTS	TIME	RESULTS		
6:00 AM-7:00 AM	79.2	9:00 PM – 10:00 PM	62.6	75-80 ( in dB )	IS:11446:1985 (Reaffirmed : 2001)
7:00 AM – 8:00 AM	71.6	10:00 PM – 11:00 PM	67.4		
8:00 AM – 9:00 AM	72.4	11:00 PM – 12:00 PM	58.2		
9:00 AM – 10:00 AM	69.8	12:00 PM – 1:00 AM	54.5		
10:00 AM – 11:00 AM	78.0	1:00 AM – 2:00 AM	60.3		
11:00 AM – 12:00 PM	73.5	2:00 AM – 3:00 AM	55.4		
12:00 PM – 1:00 PM	67.4	3:00 AM – 4:00 AM	61.2		
1:00 PM – 2:00 PM	79.0	4:00 AM – 5:00 AM	52.6		
2:00 PM – 3:00 PM	74.2	5:00 AM – 6:00 AM	51.8		
3:00 PM – 4:00 PM	73.9				
4:00 PM – 5:00 PM	68.4				
5:00 PM – 6:00 PM	67.2				
6:00 PM – 7:00 PM	75.4				
7:00 PM – 8:00 PM	76.2				
8:00 PM – 9:00 PM	73.5				
<b>AVERAGE :</b>	<b>73.31</b>	<b>AVERAGE :</b>	<b>58.22</b>		
<b>Leq.</b>	<b>74.8</b>	<b>Leq.</b>	<b>53.5</b>		

*Neel Ssl*  
Checked by



*Aic Collau*  
Authorized Signatory

Director

Environment Management Centre

Khasra No: 1102, Indl. Area

Saharanpur, Uttarakhand

Remarks

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Roorkee - 247 667 (Uttarakhand)



### SOUND LEVEL MONITORING REPORT

Test Report No. ET&A/SND/65787/23		Laboratory Sample Code : EMC/SND/65851/23		Date: 17.08.2023
Work Order No. & Date: 65787/23 & 10.08.2023				
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)	Order Reference	Through E-mail	
Sample Description/Type	Sound Level Monitored	Sound Level Monitored by	Lab. Representative	
Monitoring Location	<u>Near Fermentation</u>	Sample Quantity / Packing	-	
Date of Monitoring	10.08.2023	Date of Receipt of Monitoring data	11.08.2023	
Sampling Duration	24 hrs	Equipment Used	Lutron SL-4033SD	
Production Capacity of Plant	160 KLPD RS/ENA/AA			

### TEST RESULTS

DAY TIME (6:00 AM – 9:00 PM) (in dB)		NIGHT TIME (9:00 PM – 6:00 AM) (in dB)		Requirement/ Desirable limit	Test Method
TIME	RESULTS	TIME	RESULTS		
6:00 AM-7:00 AM	38.2	9:00 PM – 10:00 PM	42.1	75-80 ( in dB )	IS:11446:1985 (Reaffirmed : 2001)  IS: 11702:1986 (Reaffirmed :2013)  IS: 4758:1968 (Reaffirmed :2017)
7:00 AM – 8:00 AM	48.6	10:00 PM – 11:00 PM	37.4		
8:00 AM – 9:00 AM	52.8	11:00 PM – 12:00 PM	49.5		
9:00 AM – 10:00 AM	48.2	12:00 PM – 1:00 AM	50.1		
10:00 AM – 11:00 AM	52.3	1:00 AM – 2:00 AM	53.7		
11:00 AM – 12:00 PM	40.8	2:00 AM – 3:00 AM	56.2		
12:00 PM – 1:00 PM	59.2	3:00 AM – 4:00 AM	40.9		
1:00 PM – 2:00 PM	46.0	4:00 AM – 5:00 AM	38.0		
2:00 PM – 3:00 PM	41.3	5:00 AM – 6:00 AM	43.6		
3:00 PM – 4:00 PM	55.2				
4:00 PM – 5:00 PM	63.7				
5:00 PM – 6:00 PM	49.8				
6:00 PM – 7:00 PM	56.3				
7:00 PM – 8:00 PM	48.2				
8:00 PM – 9:00 PM	56.0				
<b>AVERAGE :</b>	<b>50.44</b>	<b>AVERAGE :</b>	<b>45.72</b>		
<b>Leq.</b>	<b>55.3</b>	<b>Leq.</b>	<b>47.2</b>		

Neha Singh  
Checked by



A.K. Gallow  
Authorized Signatory  
Director

Environment Management Centre

Khasra No: 1102, Indl. Area

Salemput Rajputan Roorkee

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### GROUND WATER SAMPLES ANALYSIS REPORT

#### SAMPLING DETAILS

Test Report No: ET&A/WS/64900/23		Laboratory Sample Code : EMC/WS/64964/23		Date: 17.04.2023
Work Order No. & Date: 64900/23 & 10.04.2023				
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)			Order Reference : Through e-mail
Sample Description/Type	<u>Ground Water Sample</u>	Sample Collected by	Lab. Representative	
Sampling Location	Industrial premises	Sample Quantity / Packing	2 Ltr. x 1 No. PVC can 100ml Sample Container for Fluoride, 200ml Sample Sterilized Glass Container for Microbiological Parameters	
Date of Sampling	10.04.2023	Date of Receipt of Sample	10.04.2023	
Sampling Procedure	As per IS: 3025 (Part 1) 1987 Reaff. 2019; IS:10500,2012 Recent Amendment			
Date of Start of Analysis	11.04.2023	Date of Completion of Analysis	17.04.2023	
Production Capacity of Plant	160 KLPD RS/ENA/AA			

#### TEST REPORT

S.No.	Test(s) conducted	Unit	Test Results	Requirement/ Desirable limit	Test Method (IS : 3025)
1.	Colour	Hazen	Colourless	25	IS: 3025 (Part 4) 1983 Reaff. 2017
2.	Odour	-	Odourless	Agreeable	IS: 3025 (Part 5) 1983 Reaff. 2018
3.	Taste	-	Tasteless	Agreeable	IS:3025 (Part 7&8) 1984 Reaff. 2017
4.	pH	-	7.76	6.5-8.5	IS:3025 ( Part 11) 1983 Reaff. 2021
5.	Turbidity	NTU	0.8	10	IS:3025 (Part 10) 1984 Reaff. 2017
6.	Total Dissolved Solids	mg/L	406.080	2000	IS:3025 (Part 16) 1984 Reaff. 2017
7.	Total Hardness	mg/L	177.7	600	IS:3025 (Part 21) 2009 Reaff. 2019
8.	Chloride (as Cl)	mg/L	41.6	1000	IS:3025 (Part 32) 1988 Reaff. 2019
9.	Calcium (as Ca)	mg/L	46.2	200	IS:3025 (Part 40) 1991 Reaff. 2019
10.	Magnesium (as Mg)	mg/L	15.4	100	IS:3025 (Part 46) 1994 Reaff. 2019
11.	Sulphate (as SO <sub>4</sub> )	mg/L	39.6	400	IS:3025 (Part 24) 1986 Reaff. 2019
12.	Iron (as Fe),	mg/L	0.40	1	IS:3025 (Part 53) 2003 Reaff. 2019
13.	Fluoride (as F)	mg/L	0.38	1.5	IS: 3025(Part 60) 2008 Reaff. 2019
14.	Nitrate (as NO <sub>3</sub> )	mg/L	5.6	45	IS :3025 (Part 34) 1988 Reaff. 2019
15.	Lead (as Pb)	mg/L	0.0004	0.001	IS:3025(Part 47) 1994 Reaff. 2019
16.	Zinc (as Zn)	mg/l	2.20	15	IS:3025(Part 49) 1994 Reaff. 2019
17.	Chromium (as Cr <sup>3+</sup> )	mg/L	0.003	0.05	IS:3025 (Part 52) 2003 Reaff. 2019
18.	Pesticide	mg/L	Nil	Nil	AOAC
19.	MPN of Coliform count /100 ml	mg/L	Nil	10 (E.Coli=Absent)	IS : 1622 - 1981

Checked by



Authorized Signatory

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Annexure - 9

### GROUND WATER SAMPLES ANALYSIS REPORT

#### SAMPLING DETAILS

Test Report No: ET&A/WS/64950/23		Laboratory Sample Code : EMC/WS/65014/23		Date: 15.05.2023
Work Order No. & Date: 64950/23 & 08.05.2023				
Name and Address of Customer		M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)		Order Reference : Through e-mail
Sample Description/Type	<u>Ground Water Sample</u>	Sample Collected by		Lab. Representative
Sampling Location	Industrial premises	Sample Quantity / Packing		2 Ltr. x 1 No. PVC can 100ml Sample Container for Fluoride, 200ml Sample Sterilized Glass Container for Microbiological Parameters
Date of Sampling	08.05.2023	Date of Receipt of Sample		08.05.2023
Sampling Procedure	As per IS: 3025 (Part 1) 1987 Reaff. 2019; IS :10500 ,2012 Recent Amendment			
Date of Start of Analysis	09.05.2023	Date of Completion of Analysis		15.05.2023
Production Capacity of Plant	160 KLPD RS/ENA/AA			

#### TEST REPORT

S.No.	Test(s) conducted	Unit	Test Results	Requirement/ Desirable limit	Test Method (IS : 3025)
1.	Colour	Hazen	Colourless	25	IS: 3025 (Part 4) 1983 Reaff. 2017
2.	Odour	-	Odourless	Agreeable	IS: 3025 (Part 5) 1983 Reaff. 2018
3.	Taste	-	Tasteless	Agreeable	IS:3025 (Part 7&8) 1984 Reaff. 2017
4.	pH	-	7.22	6.5-8.5	IS:3025 ( Part 11) 1983 Reaff. 2021
5.	Turbidity	NTU	0.90	10	IS:3025 (Part 10 ) 1984 Reaff. 2017
6.	Total Dissolved Solids	mg/L	340.00	2000	IS:3025 (Part 16 ) 1984 Reaff. 2017
7.	Total Hardness	mg/L	139.8	600	IS:3025 (Part 21 ) 2009 Reaff. 2019
8.	Chloride (as Cl)	mg/L	38.20	1000	IS:3025 (Part 32 ) 1988 Reaff. 2019
9.	Calcium (as Ca)	mg/L	40.2	200	IS:3025 (Part 40) 1991 Reaff. 2019
10.	Magnesium (as Mg)	mg/L	9.8	100	IS:3025 (Part 46 ) 1994 Reaff. 2019
11.	Sulphate (as SO <sub>4</sub> )	mg/L	45.6	400	IS:3025 (Part 24 ) 1986 Reaff. 2019
12.	Iron (as Fe),	mg/L	0.54	1	IS:3025 (Part 53 ) 2003 Reaff. 2019
13.	Fluoride (as F)	mg/L	0.40	1.5	IS: 3025(Part 60 ) 2008 Reaff. 2019
14.	Nitrate (as NO <sub>3</sub> )	mg/L	4.8	45	IS :3025 (Part 34) 1988 Reaff. 2019
15.	Lead (as Pb)	mg/L	0.0003	0.001	IS:3025(Part 47) 1994 Reaff. 2019
16.	Zinc (as Zn)	mg/l	3.8	15	IS:3025(Part 49) 1994 Reaff. 2019
17.	Chromium (as Cr <sup>3+</sup> )	mg/L	ND	0.05	IS:3025 (Part 52) 2003 Reaff. 2019
18.	Pesticide	mg/L	Nil	Nil	AOAC
19.	MPN of Coliform count /100 ml	mg/L	Nil	10 (E.Coli=Absent)	IS : 1622 - 1981

N.D.-Not Detected

Checked by  
*Neha Singh*



Authorized Signatory  
*A.K. Gallow*

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### GROUND WATER SAMPLES ANALYSIS REPORT

#### SAMPLING DETAILS

Test Report No: ET&A/WS/65495/23	Laboratory Sample Code : EMC/WS/65559/23	Date: 18.06.2023
Work Order No. & Date: 65495/23 & 11.06.2023		
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)	Order Reference : Through e-mail
Sample Description/Type	<u>Ground Water Sample</u>	Sample Collected by
Sampling Location	Industrial premises	Sample Quantity / Packing
Date of Sampling	11.06.2023	Date of Receipt of Sample
Sampling Procedure	As per IS: 3025 (Part 1) 1987 Reaff. 2019; IS :10500 ,2012 Recent Amendment	
Date of Start of Analysis	12.06.2023	Date of Completion of Analysis
Production Capacity of Plant	160 KLPD RS/ENA/AA	
		Lab. Representative
		2 Ltr. x 1 No. PVC can 100ml Sample Container for Fluoride, 200ml Sample Sterilized Glass Container for Microbiological Parameters
		11.06.2023

#### TEST REPORT

S.No.	Test(s) conducted	Unit	Test Results	Requirement/ Desirable limit	Test Method (IS : 3025)
1.	Colour	Hazen	Colourless	25	IS: 3025 (Part 4) 1983 Reaff. 2017
2.	Odour	-	Odourless	Agreeable	IS: 3025 (Part 5) 1983 Reaff. 2018
3.	Taste	-	Tasteless	Agreeable	IS:3025 (Part 7&8) 1984 Reaff. 2017
4.	pH	-	7.92	6.5-8.5	IS:3025 ( Part 11) 1983 Reaff. 2021
5.	Turbidity	NTU	0.72	10	IS:3025 (Part 10 ) 1984 Reaff. 2017
6.	Total Dissolved Solids	mg/L	388.116	2000	IS:3025 (Part 16 ) 1984 Reaff. 2017
7.	Total Hardness	mg/L	129.0	600	IS:3025 (Part 21 ) 2009 Reaff. 2019
8.	Chloride (as Cl)	mg/L	42.6	1000	IS:3025 (Part 32 ) 1988 Reaff. 2019
9.	Calcium (as Ca)	mg/L	38.2	200	IS:3025 (Part 40) 1991 Reaff. 2019
10.	Magnesium (as Mg)	mg/L	8.4	100	IS:3025 (Part 46 ) 1994 Reaff. 2019
11.	Sulphate (as SO <sub>4</sub> )	mg/L	36.8	400	IS:3025 (Part 24 ) 1986 Reaff. 2019
12.	Iron (as Fe),	mg/L	0.30	1	IS:3025 (Part 53 ) 2003 Reaff. 2019
13.	Fluoride (as F)	mg/L	0.40	1.5	IS: 3025(Part 60 ) 2008 Reaff. 2019
14.	Nitrate (as NO <sub>3</sub> )	mg/L	5.2	45	IS :3025 (Part 34) 1988 Reaff. 2019
15.	Lead (as Pb)	mg/L	0.0001	0.001	IS:3025(Part 47) 1994 Reaff. 2019
16.	Zinc (as Zn)	mg/l	1.8	15	IS:3025(Part 49) 1994 Reaff. 2019
17.	Chromium (as Cr <sup>3+</sup> )	mg/L	0.0002	0.05	IS:3025 (Part 52) 2003 Reaff. 2019
18.	Pesticide	mg/L	Nil	Nil	AOAC
19.	MPN of Coliform count /100 ml	mg/L	Nil	10 (E.Coli=Absent)	IS : 1622 - 1981

neha Singh  
Checked by



A.K. Chakravarty  
Authorized Signatory

Director

Environment Management Centre  
Khasra No. 1102, Ind. Area  
Salempur Rajputan, Roorkee

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Annexure - 9

**GROUND WATER SAMPLES ANALYSIS REPORT**
**SAMPLING DETAILS**

Test Report No: ET&A/WS/65735/23		Laboratory Sample Code : EMC/WS/64799/23		Date: 15.07.2023
Work Order No. & Date: 65735/23 & 07.07.2023				
Name and Address of Customer		M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)		Order Reference : Through e-mail
Sample Description/Type	<u>Ground Water Sample</u>	Sample Collected by		Lab. Representative
Sampling Location	Industrial premises	Sample Quantity / Packing		2 Ltr. x 1 No. PVC can 100ml Sample Container for Fluoride, 200ml Sample Sterilized Glass Container for Microbiological Parameters
Date of Sampling	07.07.2023	Date of Receipt of Sample		07.07.2023
Sampling Procedure	As per IS: 3025 (Part 1) 1987 Reaff. 2019; IS :10500 ,2012 Recent Amendment			
Date of Start of Analysis	08.07.2023	Date of Completion of Analysis		15.07.2023
Production Capacity of Plant	160 KLPD RS/ENA/AA			

**TEST REPORT**

S.No.	Test(s) conducted	Unit	Test Results	Requirement/ Desirable limit	Test Method (IS : 3025)
1.	Colour	Hazen	Colourless	25	IS: 3025 (Part 4) 1983 Reaff. 2017
2.	Odour	-	Odourless	Agreeable	IS: 3025 (Part 5) 1983 Reaff. 2018
3.	Taste	-	Tasteless	Agreeable	IS:3025 (Part 7&8) 1984 Reaff. 2017
4.	pH	-	8.12	6.5-8.5	IS:3025 ( Part 11) 1983 Reaff. 2021
5.	Turbidity	NTU	2.20	10	IS:3025 (Part 10 ) 1984 Reaff. 2017
6.	Total Dissolved Solids	mg/L	450.330	2000	IS:3025 (Part 16 ) 1984 Reaff. 2017
7.	Total Hardness	mg/L	181.0	600	IS:3025 (Part 21 ) 2009 Reaff. 2019
8.	Chloride (as Cl)	mg/L	52.6	1000	IS:3025 (Part 32 ) 1988 Reaff. 2019
9.	Calcium (as Ca)	mg/L	49.2	200	IS:3025 (Part 40) 1991 Reaff. 2019
10.	Magnesium (as Mg)	mg/L	14.4	100	IS:3025 (Part 46 ) 1994 Reaff. 2019
11.	Sulphate (as SO <sub>4</sub> )	mg/L	48.0	400	IS:3025 (Part 24 ) 1986 Reaff. 2019
12.	Iron (as Fe),	mg/L	0.26	1	IS:3025 (Part 53 ) 2003 Reaff. 2019
13.	Fluoride (as F)	mg/L	0.32	1.5	IS: 3025(Part 60 ) 2008 Reaff. 2019
14.	Nitrate (as NO <sub>3</sub> )	mg/L	3.90	45	IS :3025 (Part 34) 1988 Reaff. 2019
15.	Lead (as Pb)	mg/L	ND	0.001	IS:3025(Part 47) 1994 Reaff. 2019
16.	Zinc (as Zn)	mg/l	2.80	15	IS:3025(Part 49) 1994 Reaff. 2019
17.	Chromium (as Cr <sup>3+</sup> )	mg/L	0.0003	0.05	IS:3025 (Part 52) 2003 Reaff. 2019
18.	Pesticide	mg/L	Nil	Nil	AOAC
19.	MPN of Coliform count /100 ml	mg/L	Nil	10 (E.Coli=Absent)	IS : 1622 - 1981

N.D.-Not Detected

Checked by  
*Ashwani Lakhani*
*AIC Callow*  
 Authorized Signatory

Director

 Environment Management Centre  
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### GROUND WATER SAMPLES ANALYSIS REPORT

#### SAMPLING DETAILS

Test Report No: ET&A/WS/65786/23	Laboratory Sample Code : EMC/WS/65850/23	Date: 17.08.2023
Work Order No. & Date: 65786/23 & 10.08.2023		
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)	Order Reference : Through e-mail
Sample Description/Type	<u>Ground Water Sample</u>	Sample Collected by
Sampling Location	Borewell Distillery	Sample Quantity / Packing
Date of Sampling	10.08.2023	Date of Receipt of Sample
Sampling Procedure	As per IS: 3025 (Part 1) 1987 Reaff. 2019; IS :10500 ,2012 Recent Amendment	
Date of Start of Analysis	11.08.2023	Date of Completion of Analysis
Production Capacity of Plant	160 KLPD RS/ENA/AA	
Lab. Representative	2 Ltr. x 1 No. PVC can 100ml Sample Container for Fluoride, 200ml Sample Sterilized Glass Container for Microbiological Parameters	
		10.08.2023

#### TEST REPORT

S.No.	Test(s) conducted	Unit	Test Results	Requirement/ Desirable limit	Test Method (IS : 3025)
1.	Colour	Hazen	Colourless	25	IS: 3025 (Part 4) 1983 Reaff. 2017
2.	Odour	-	Odourless	Agreeable	IS: 3025 (Part 5) 1983 Reaff. 2018
3.	Taste	-	Tasteless	Agreeable	IS:3025 (Part 7&8) 1984 Reaff. 2017
4.	pH	-	7.52	6.5-8.5	IS:3025 ( Part 11) 1983 Reaff. 2021
5.	Turbidity	NTU	1.8	10	IS:3025 (Part 10 ) 1984 Reaff. 2017
6.	Total Dissolved Solids	mg/L	396.880	2000	IS:3025 (Part 16 ) 1984 Reaff. 2017
7.	Total Hardness	mg/L	165.18	600	IS:3025 (Part 21 ) 2009 Reaff. 2019
8.	Chloride (as Cl)	mg/L	46.2	1000	IS:3025 (Part 32 ) 1988 Reaff. 2019
9.	Calcium (as Ca)	mg/L	45.8	200	IS:3025 (Part 40) 1991 Reaff. 2019
10.	Magnesium (as Mg)	mg/L	12.6	100	IS:3025 (Part 46 ) 1994 Reaff. 2019
11.	Sulphate (as SO <sub>4</sub> )	mg/L	42.90	400	IS:3025 (Part 24 ) 1986 Reaff. 2019
12.	Iron (as Fe),	mg/L	0.22	1	IS:3025 (Part 53 ) 2003 Reaff. 2019
13.	Fluoride (as F)	mg/L	0.40	1.5	IS: 3025(Part 60 ) 2008 Reaff. 2019
14.	Nitrate (as NO <sub>3</sub> )	mg/L	3.0	45	IS :3025 (Part 34) 1988 Reaff. 2019
15.	Lead (as Pb)	mg/L	0.0002	0.001	IS:3025(Part 47) 1994 Reaff. 2019
16.	Zinc (as Zn)	mg/l	4.1	15	IS:3025(Part 49) 1994 Reaff. 2019
17.	Chromium (as Cr <sup>3+</sup> )	mg/L	0.0002	0.05	IS:3025 (Part 52) 2003 Reaff. 2019
18.	Pesticide	mg/L	Nil	Nil	AOAC
19.	MPN of Coliform count /100 ml	mg/L	Nil	10 (E.Coli=Absent)	IS : 1622 - 1981

Neel Singh  
Checked by



A.K. Chawla  
Authorized Signatory  
Director

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Annexure - 9

### GROUND WATER SAMPLES ANALYSIS REPORT

#### SAMPLING DETAILS

Test Report No: ET&A/WS/66024/23	Laboratory Sample Code : EMC/WS/66088/23	Date: 22.09.2023
Work Order No. & Date: 66024/23 & 15.09.2023		
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit - Gangnauli District - Saharanpur (U.P.)	Order Reference : Through e-mail
Sample Description/Type	<u>Ground Water Sample</u>	Sample Collected by
Sampling Location	Industrial premises	Sample Quantity / Packing
Date of Sampling	15.09.2023	Date of Receipt of Sample
Sampling Procedure	As per IS: 3025 (Part 1) 1987 Reaff. 2019; IS :10500 ,2012 Recent Amendment	
Date of Start of Analysis	16.09.2023	Date of Completion of Analysis
Production Capacity of Plant	160 KLPD RS/ENA/AA	
		Lab. Representative
		2 Ltr. x 1 No. PVC can 100ml Sample Container for Fluoride, 200ml Sample Sterilized Glass Container for Microbiological Parameters
		15.09.2023

#### TEST REPORT

S.No.	Test(s) conducted	Unit	Test Results	Requirement/ Desirable limit	Test Method (IS : 3025)
1.	Colour	Hazen	Colourless	25	IS: 3025 (Part 4) 1983 Reaff. 2017
2.	Odour	-	Odourless	Agreeable	IS: 3025 (Part 5) 1983 Reaff. 2018
3.	Taste	-	Tasteless	Agreeable	IS:3025 (Part 7&8) 1984 Reaff. 2017
4.	pH	-	7.16	6.5-8.5	IS:3025 (Part 11) 1983 Reaff. 2021
5.	Turbidity	NTU	0.80	10	IS:3025 (Part 10) 1984 Reaff. 2017
6.	Total Dissolved Solids	mg/L	390.550	2000	IS:3025 (Part 16) 1984 Reaff. 2017
7.	Total Hardness	mg/L	133.7	600	IS:3025 (Part 21) 2009 Reaff. 2019
8.	Chloride (as Cl)	mg/L	42.8	1000	IS:3025 (Part 32) 1988 Reaff. 2019
9.	Calcium (as Ca)	mg/L	36.50	200	IS:3025 (Part 40) 1991 Reaff. 2019
10.	Magnesium (as Mg)	mg/L	10.6	100	IS:3025 (Part 46) 1994 Reaff. 2019
11.	Sulphate (as SO <sub>4</sub> )	mg/L	40.50	400	IS:3025 (Part 24) 1986 Reaff. 2019
12.	Iron (as Fe),	mg/L	0.20	1	IS:3025 (Part 53) 2003 Reaff. 2019
13.	Fluoride (as F)	mg/L	0.14	1.5	IS : 3025(Part 60) 2008 Reaff. 2019
14.	Nitrate (as NO <sub>3</sub> )	mg/L	0.70	45	IS :3025 (Part 34) 1988 Reaff. 2019
15.	Lead (as Pb)	mg/L	N.D.	0.001	IS:3025(Part 47) 1994 Reaff. 2019
16.	Zinc (as Zn)	mg/l	0.60	15	IS:3025(Part 49) 1994 Reaff. 2019
17.	Chromium (as Cr <sup>3+</sup> )	mg/L	0.0001	0.05	IS:3025 (Part 52) 2003 Reaff. 2019
18.	Pesticide	mg/L	Nil	Nil	AOAC
19.	MPN of Coliform count /100 ml	mg/L	Nil	10 (E.Coli=Absent)	IS : 1622 - 1981

N.D.- Not Detected

Checked by  
Neha Singh



AK Gallow  
Authorized Signatory  
DIRECTOR

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Annexure-10

**SOIL ANALYSIS REPORT**
**SAMPLING DETAILS**

Report No. ET&A/SOI/65785/23		Laboratory Sample Code : EMC/SOI/65849/23		Date: 17.08.2023
Work Order No. & Date : 65785/23 & 10.08.2023				
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)			Order Reference : Through e-mail
Sample Description/Type	Soil Collected from the Nearby Farmer's Field	Sample Collected by	Laboratory Representative	
Sampling Location	Gangnauli	Sample Quantity / Packing	One Poly Pack ( 2 Kg.)	
Date of Sampling	10.08.2023	Date of Receipt of Sample	10.08.2023	
Method of Sampling & Analysis Procedure:	Methods Manual by Department of Agriculture & Cooperation, Ministry of Agriculture Government of India			
Date of Start of Analysis	11.08.2023	Date of Completion of Analysis	17.08.2023	

**TEST RESULTS**

S.No.	Test(s) Conducted	Unit	Test Results	Test Method
1.	pH (1-2 soil water extract)	-	7.48	IS : 2720 (Part 26 ) 1987
2.	Electrical conductivity at 25 <sup>o</sup> C (Soil water extract)	mhos/cm	0.46	IS : 14767- 2000
3.	Texture	-	Sandy loam	IS: 2720
4.	Bulk Density	gm/cc	1.32	IS : 2720 (Part 29 ) 1975
5.	Particle Density	gm/cc	2.60	IS : 2720 (Part 14 )1983
6.	Porosity	%	50.0	IS : 2720 (Part 17 )1986
7.	Water Holding Capacity	%	20.2	IS : 2720
8.	Sand Content	%	51.6	IS : 2720 (Part 4 )1965
9.	Silt Content	%	25.4	IS : 2720 (Part 4 ) 1965
10.	Clay Content	%	23.0	IS : 2720 (Part 4 ) 1965
11.	Calcium as Ca	%	0.54	Soil Sampling Method & Analysis 2 <sup>nd</sup> Ed. By M.R. Carter 2007
12.	Magnesium as Mg	ppm	0.28	Soil Sampling Method & Analysis 2 <sup>nd</sup> Ed. By M.R. Carter 2007



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 Roorkee - 247 667 (Uttarakhand)


S.No.	Test(s) Conducted	Unit	Test Results	Test Method
13.	Available Sodium ( as Na)	ppm	< 0.4	Soil Sampling Method & Analysis 2 <sup>nd</sup> Ed. By M.R. Carter 2007
14.	Available Potassium (as K)	Kg/Ha	140	Soil Sampling Method & Analysis 2 <sup>nd</sup> Ed. By M.R. Carter 2007
15.	Available Phosphorous (as P <sub>2</sub> O <sub>5</sub> )	Kg/Ha	48.2	Soil Sampling Method & Analysis 2 <sup>nd</sup> Ed. By M.R. Carter 2007
16.	CaCO <sub>3</sub>	ppm	0.48	IS : 2720 (Part 23 ) 1964
17	Chloride as Cl	ppm	4.4	{IS : 4032} : 1985Reaffirmed 2005
18	Sulphate as SO <sub>4</sub>	ppm	3.6	IS : 2720 (Part 22 ) 1972 Reaffirmed 2010

*Neel Singh*  
Checked by



*A.K. Gallow*  
Authorized Signatory  
Director  
Environment Management Centre  
Khasra No: 1102, Indl. Area  
Salempur Rajputan Roorkee

Remarks:

Page 2 of 2

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**SPENT WASH SAMPLE ANALYSIS REPORT****SAMPLING DETAILS**

Test Report No: ET&A/WS/65783/23		Laboratory Sample Code : EMC/WS/65847/23		Date: 17.08.2023
Work Order No.& Date : 65783/23 & 10.08.2023				
Name and Address of Customer		M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)		Order Reference : Through e-mail
Sample Description/Type	<u>Spent Wash</u>	Sample Collected by	Laboratory Representative	
Sampling Location	Industrial premises	Sample Quantity / Packing	1 L x 2 No.PVC can (Sealed)	
Date of Sampling	10.08.2023	Date of Receipt of Sample	10.08.2023	
Sampling Procedure	As per IS:2720 &APHA Method			
Date of Start of Analysis	11.08.2023	Date of Completion of Analysis	17.08.2023	
Production Capacity of Plant	160 KLPD RS/AA			

**TEST RESULTS**

S. No.	Test(s) Conducted	Unit	Test Results	Test Method (IS :3025)
1.	pH	-	4.6	IS: 3025(Part 11) 1983 Reaff. 2021
2.	Colour	-	Dark Brown	IS: 3025(Part 4) 1983 Reaff. 2017
3.	Odour	-	Molasses	IS:3025(Part 5 ) 1983 Reaff.2018
4.	Total Solids	%	16.2	IS: 3025(Part 15) 1984 Reaff. 2019
5.	COD	mg/L	94800	IS:3025(Part 58) 2006 Reaff.2017

*Neha Singh*  
Checked by



*AK Gallow*  
Authorized Signatory  
Director  
Environment Management Centre  
Khasra No: 1102, Indl. Area  
Salempur Rajputan, Roorkee

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**NABL ACCREDITED, GOVT. APPROVED & ISO CERTIFIED LAB**

Annexure - 11

**MEE CONCENTRATE (SLOP) ANALYSIS REPORT**
**SAMPLING DETAILS**

Test Report No: ET&A/SL/65784/23		Laboratory Sample Code : EMC/SL/65848/23		Date: 17.08.2023
Work Order No. & Date: 65784/23 & 10.08.2023				
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli District – Saharanpur (U.P.)			Order Reference : Through E-mail
Sampling Location	Industrial premises	Sample Collected by	Laboratory Representative	
Sample Description/Type	<b>MEE Concentrate (Slop )</b>	Sample Quantity / Packing	2 Lx1 No. - PVC can 300 ml Sample for BOD	
Date of Sampling	10.08.2023	Date of Receipt of Sample	10.08.2023	
Sampling Procedure	As per IS: 3025 (Part 1) 1987 Reaffirm. 2019			
Date of Start of Analysis	11.08.2023	Date of Completion of Analysis	17.08.2023	

**TEST REPORT**

Sl. No.	Test(s) Conducted	Unit	Test Results	Standards (Effluents discharging in stream)	Test Method (IS 3025)
1.	pH	-	4.28	5.5-9.0	IS: 3025(Part 11) 1983, Reaff. 2021
2.	Total Suspended Solids	mg/L	24600	50	IS: 3025(Part 17) 1984, Reaff. 2021
3.	Total Dissolved Solids	mg/L	554300	<1800	IS: 3025(Part 16) 1984, Reaff. 2017
4.	Total Solids	mg/L	581500	-	IS:3025(Part 15) 1984, Reaff.2019
5.	BOD	mg/L	206490	30	IS: 3025(Part 44) 1993, Reaff. 2019
6.	COD	mg/L	451860	250	IS: 3025(Part 58) 2006, Reaff. 2017

 Neha Singh  
 Checked by

 H K Gallow  
 Authorized Signatory

 Director  
 Environment Management Centre  
 Khasra No: 1102, Indl Area  
 Salempur Rajputan, Roorkee

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 Industrial Area, Salempur Rajputan,  
 Roorkee - 247 667 (Uttarakhand)




**STACK EMISSION MONITORING TEST REPORT**

Report No. ET&A/SS/65780/23	Laboratory Sample Code : EMC/SS/65844/23	Date: 17.08.2023
Work Order No & Date: 65780/23 & 10.08.2023		
Name and Address of Customer	M/s Bajaj Hindusthan Sugar Ltd. Distillery Unit – Gangnauli, District – Saharanpur (U.P.)	Order Reference: Through e-mail
Production Capacity of Plant	160 KLPD RS/ENA/AA	

**SAMPLING DETAILS**

Sample Description/Type	Stack Monitoring	Sample Collected by	Laboratory Representative
Sampling Location	<u>Stack attached to Boiler</u>	Sample Quantity / Packing	Cellulose Fiber Thimble
Date of Sampling	10.08.2023 (7:00 A.M. to 7:45 A.M.)	Date of Receipt of Sample	10.08.2023
Sampling Procedure	As per CPCB Guidelines : IS : 11255 & IS :13270		
Normal operating schedule (hr/day)	24 hrs	Purpose of Monitoring	Assessment of Pollution load
Control Measure , (If any) Device installed for pollution control	ESP	Date of Start of Analysis	11.08.2023
Equipment used	Vayubodhan Stack Sampler VSS1	Date of Completion of Analysis	17.08.2023
Emission Source	Stack attached to boiler 60 TPH	Ambient Temperature (°C)	22.4
Type of Stack (Material of Construction)	RCC	Sampling Duration (min.)	45
Stack height above the ground level (meter)	90	Shape of Stack	Round
Top Diameter of stack (meter)	3.0	Stack Temperature (°C)	114.2
Location of sampling point ( Port hole ) ( meter )	41	Flue gas temperature (°C)	102.6
Type of fuel used	Bagasse + Slop	Sampling Flow Rate for SPM (m <sup>3</sup> /min.)	15.4
Quantity of fuel used (Ton/hr.)	8 Ton Bagasse+ 22 Ton Slop	Velocity of gases (meter/Sec)	5.8
Quantity of emission discharged (m <sup>3</sup> /hr)	112542.822	Sampling Flow Rate For Gas (LPM)	1.8
Steam generation (Ton/hr.)	45		



Annexure - 12

TEST RESULTS

S. No.	Parameter	Test Method	Test Result	Desirable limit
1.	Suspended Particulate matter (mg/Nm <sup>3</sup> )	IS:11255 (P-I) 1985 Reaffirmed 2019	72.6	150
2.	Sulphur Dioxide (mg/Nm <sup>3</sup> )	IS:11255 (P-II) 1985 Reaffirmed 2019	30.2	Not specified
3.	Nitrogen oxides (mg/Nm <sup>3</sup> )	IS:11255(P-VII) 2005 Reaffirmed 2017	10.6	Not specified
4.	Carbon monoxide (% by Vol.)	IS:13270:1992 Reaffirmed 2019	0.30	1% by volume



*Neha Singh*  
Checked by

*Atul Gallow*  
Authorized Signatory

**Director**  
Environment Management Centre  
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Salempur Rajputan, Roorkee

Page No. 2 of 2

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**DETAILS OF LAB EQUIPMENTS**

<b>Name Lab Equipments</b>	<b>Quantity</b>
Electric oven	1
Muffle furnace	1
S.S distilled water assembly	1
Hot plate	4
BOD Incubator	1
Kjeldahl distillation apparatus	1
Stack monitoring kit	1
High volume sampler	1
PH meter	1
Conductivity meter	1
Flame photometer	1
Spectrophotometer	1
Centrifuge Machine	1
Digital sound level meter	1
Glass wares	As required
Chemicals	As required

**Factory :** Unit – Distillery, Gangnauli, Distt. – Saharanpur-247001.

### GREEN BELT DEVELOPMENT

AS ON 31 sep.23

SR.NO	Existing Lawn	Area M2	Existing Plantation	Varities	Remarks
1	Near Scrap yard	500	50	Neem	
2	Bio-Compost Yard	8000	6000	Sisam ,jamun ,gul mohar, sagoan, Arjun ,guava	

## COST DETAILS OF ENVIRONMENTAL MANAGEMENT

Bajaj Hindusthan Sugar Limited  
Unit: Gangnauli, Saharanpur,  
Capacity: 160KL/Day Rectified Spirit/ Absolute Alcohol

S.N.	Details	Cost Incurred ( Rs. Crores )
1	<b>Integrated Evaporation System ( FLUBEX)</b>	<b>8.4</b>
2	<b>Bio- Gas Plan</b>	<b>14</b>
3	<b>Bio composting Treatment Process</b>	
	A. Land Cost ( 31.6 Acres )	3.46
	B. Cost of Construction of Compost Yard	3.16
	C. Aerotiller ( 2 Nos.)	0.29
	D. Loader ( 2 Nos. )	0.2
	E. Hydraulic Trolley ( 2Nos )	0.22
	<b>Sub Total</b>	<b>7.33</b>
4	<b>Green Belt Development</b>	<b>0.04</b>
5	<b>Environmental Lab Equipments</b>	<b>0.07</b>
6	<b>Third Party Monitoring</b>	<b>0.01</b>
7	<b>Web Camera</b>	<b>0.02</b>
8	<b>Five effect MEE Plant</b>	<b>14</b>
9	<b>Condensate Treatment Plant</b>	<b>2.5</b>
10	<b>R.O. Plant</b>	<b>2.5</b>
11	<b>CPU Plant</b>	<b>6.0</b>
12	<b>Incinerator Boiler</b>	<b>60</b>
	<b>Total Cost</b>	<b>114.87</b>


**Factory :** Unit – Distillery, Gangnauli, Distt. – Saharanpur-247001.

Annexure -16

Date: 21.11.2023

## TO WHOM SOEVER IT MAY CONCERN

This is to certify that I have examined 101 employees of Distillery Unit, Bajaj Hindusthan Sugar Limited, Gangnauli. All of them are found mentally and physically fit and no any sign of occupational disease observed.

  
( Dr. Vinod Kumar)

Medical Officer  
BHSL, Gangnauli, Saharanpur

**Factory :** Unit – Distillery, Gangnauli, Distt. – Saharanpur-247001.