



Ref.: BHSL/RDL/EHS/2023/

Date: 28.11.2023

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

**Sub: - Environmental Clearance Compliance for 160 KLPD Distillery Plant at Village-Athadhama, Rudhauri, Distt.-Basti of M/s Bajaj Hindusthan Sugar Ltd.**

Ref: EC Letter No. J-11011/338/2006-IA II (I) dated 07.12.2006.

Project Code:- UP-105-282-2008.

Dear Sir,

Kindly refer to your Environment Clearance Letter vide No. J-11011/338/2006-IA II (I) dated 07.12.2006 regarding above subject, the six-monthly compliance report of Environmental Clearance for the period from April 2023 to September 2023 is enclosed as annexure-2 along with soft copy in CD. Our compliance submission is as below;

<b>S.NO.</b>	<b>Details Of Points</b>	<b>Present Status</b>
1	Data sheet Part-1(updated)	Enclosed herewith as annexure-1
2	Environmental Compliance	Enclosed herewith as annexure-2
3	Stack emission report	Enclosed herewith as annexure-3
4	Treated effluent analysis report	Enclosed herewith as annexure-4
5	Details of Water used /day Effluent generation etc.	Enclosed herewith as annexure-5
6	NOC/Registration from UPGWD	Enclosed herewith as annexure-6
7	Ground water Quality report	Enclosed herewith as annexure-7
8	Details of Green Belt	Enclosed herewith as annexure-8
9	Medical certificate of Employee	Enclosed herewith as annexure-9
10	Copy of Water consent	Enclosed herewith as annexure-10
11	Copy of Air consent	Enclosed herewith as annexure-11
12	Ambient Air Quality Report	Enclosed herewith as annexure-12

- |    |  |                                   |
|----|--|-----------------------------------|
| 13 | Noise Level Report (Night & Day time)            | Enclosed herewith as annexure- 13 |
| 14 | Details of Expenditure in Environment Management | Enclosed herewith as annexure- 14 |
| 15 | Details of Environment Management Cell           | Enclosed herewith as annexure- 15 |
| 16 | Details of Lab Equipment's                       | Enclosed herewith as annexure- 16 |
| 17 | EC Information publication in News paper         | Enclosed herewith as annexure- 17 |

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

Thanking you

Your's Faithfully

**For- Bajaj Hindusthan Sugar Ltd.**

  
**Authorized Signatory**  
**BHSL, Rudhauri (Distillery), Basti**

Encl: As above

## DATA SHEET

<b>1</b>	<b>Project Type</b>	Distillery
<b>2</b>	<b>Name of the project</b>	Bajaj Hindusthan Sugar Ltd. (Distillery Division) Unit-Rudhauri, Basti, (U.P.)
<b>3</b>	<b>Clearance letter /OM No &amp; Date:</b>	J- 11011 / 338 / 2006-IA II (I) dated 07.12.2006
<b>4</b>	<b>Location:</b>	
A	District (S)	Basti,
B	State	U.P.
C	Latitude / longitudes	27.055701/82.786933
<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 Division) Unit-Rudhauri, Basti, (U.P.) Ph-05542 275666 Fax-05542 275665,
B	Address of Executive project engineer (with pin code & telephone /Telex/fax numbers)	Bajaj Hindusthan Sugar Ltd. (Distillery Division) Unit-Rudhauri, Basti, (U.P.) Ph-05542 275666 Fax-05542 275665,
<b>6</b>	<b>Salient Features</b>	
A	Of the Project	Manufacturing of the rectified spirit and Anhydrous Alcohol
B	Of the Environmental Management plans	The generated spent-wash from Integrated Fluidized Bed Evaporation system (FLUBEX) pass through Multi Effect Evaporators (MEE) for concentration. The concentrated spent wash used in incinerator boiler as fuel to generate steam and generated condensate from there; recycle in process after treatment through CPU to maintain Zero Liquid Discharge (ZLD). The generated ash from boiler, use for filling of low land areas.
<b>7</b>	<b>Break up the project area</b>	
A	Submergence area (forest & Non forest)	16.5+35.5=52.0 acres (Non forest area)
B	Others	NA
<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	
B	Others	
C	Numbers of villages Affected	
d	Name & other particulars of identified area for settlement.	N.A.
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	100 Crores (In 2006)		
B	Allocations made for environment managements plans, with item wise and year-wise break up.	F. Year	Spent on Project	Spent on Misc. job
		2017-18	2.0 cr. for Striper	1.7705 cr.
		2018-19	47.0 cr. Boiler	1.3195 cr.
		2019-20	---	1.3125 cr.
		2020-21	2.5 cr. for CPU	0.1245 cr.
		2021-22	--	3.0375 Cr.
		2022-23	--	3.5 Cr.
		2023-24	--	1.875 Cr.

C	Benefit cost ratio/ internal rate of return and the year of assessment.	
D	Whether (a) include the cost of environmental Management as shown in (b) above	
E	Actual expenditure incurred on the project so far.	100 Corers
F	Actual Expenditure incurred on the Environmental Management plans so far.	<b>106.5325</b> Corers
<b>10</b>	<b>Forest land requirement</b>	
A	The status of approval for a diversion of forest land for forest use	NA
B	The status of Compensatory afforestation, if any	NA
C	The status of the clear filling	NA
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>	Completed
A	Date of Commencement (actual and /or planned)	June - 2006
B	Dated of completion (actual and /or planned)	June-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

  
 Authorized Signatory  
 With Seal  
 Rudhauri-Bastir

## Annexure -2

Compliance report of Environmental Clearance No J- 11011 /338/2006-IA II (I) dated 07.12.2006 issued for 160 KLPD new Distillery Unit by Bajaj Hindusthan Sugar Ltd.(Distillery) at Rudhauri, Basti.

In reference of above Clearance, the point wise compliance report is for the period of April 2023 to September 2023 is as under;

Specific condition		
S.No	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 SPCS 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	<b>In Compliance</b> , the Treated effluent and stack emission will be kept within norms through incorporation of State of Art Technology and plants will be stopped immediately in case of process disturbance/failure of pollution control devices and never restarted until the control measures are rectified to achieve the desired efficiency For the period of <b>April 2023 to September 2023</b> , The recent boiler stack emission report of Noida Testing Laboratory, Noida is attached as <b>annexure 03</b> with report No. ST-060923-37, ST-060923-38, & ST-060923-39, whereas the treated effluent analysis report is also attached as <b>annexure 04</b> of Noida Testing Laboratory, Noida with report no. WW-060923-46 & WW-060923-48
2.	The company shall adopt continuous fermentation technology. For treatment of spent wash, for the initial two years, the unit 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 Fluidised Bed Heat Exchangers (FLUBEX)as the Integrated Evaporation System and it will be ensured that the spent wash generation shall not exceed 10 KI/KI of alcohol produced. The concentrated spent wash (800 m3/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 shall earmark 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.	<b>In Compliance</b> , the total area of 31.6 acres for bio-compost has already been earmarked. Bio-compost plant has been installed as per CPCB guidelines. Zero Discharge condition is being maintained During the period of <b>April 2023 to September 2023</b> , and never exceed the spent wash generation 10 KI/KI of alcohol produced. The effluent generation is attached as <b>Annexure 05</b> for reference.

3.	The company shall install venture type high efficiency wet scrubber and a stack of 45 m height of to control the emissions from the bagasse fired boiler to achieve the particulate emissions within the prescribed standards.	<b>In Compliance</b> , the Electro Static Precipitator attached with 45-meter height stack has been installed to achieve particulate emission within the prescribed standards. The recent Boiler stack emission report is attached as <b>annexure 03</b> with report No. ST-060923-37
4.	Emission Rate of various pollutants in g/sec may be provided within 15 days of the issue of this letter.	<b>In Compliance</b> , the Emission Rate in gram/seconds is 0.083 as per standard norms.
5.	The spent wash shall be stored in impervious pucca 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.	<b>In Compliance</b> , the Impervious storage of 30 days capacity, as directed, has been constructed with HDPE lining
6.	The company shall obtain permission from the Central Ground Water Board for drawl of ground water.	<b>In Compliance</b> , The Certificate of Registration of User for Abstraction of Ground Water and Authorization / No – Objection Certificate (NOC) for sinking of new well for Industrial/ Commercial/Infrastructural or Bulk User of Ground Water from Uttar Pradesh Ground Water Department for drawl of ground water has been taken. <b>The Registration No.</b> is 202104000029 & 202104000034 and <b>NOC</b> Registration No. 202105000043 & 202105000044 is enclosed as as <b>Annexure 06</b> for reference.
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	<b>In Compliance</b> , We have installed Digital ground water level recorder along with Telemetry near distillery ETP office and send the level data online to CGWA/UPGWD. The ground water quality monitoring stations has already been Implemented. The sampling and trend analysis monitoring report is submitted regularly. Monthly based regular Ground Water analysis report submitted to UPPCB and MOEF, as directed. (The month wise ground water test reports for the period <b>April 2023 to September 2023</b> , is attached as <b>annexure 07</b> with report no. W-060623-16 & W-060923-41
8.	The operation of distillery shall be restricted to 270 days and that it will not operate during rainy season.	<b>In Compliance</b> , the Distillery will be operated only for 270 days. In rainy season, operation remains stopped.
9.	As per the undertaking submitted by the Proponent, green belt of adequate width and density in 33% of the total plant are 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 the local DFO.	<b>In Compliance</b> , the Provision of green belt development in 33% area has already been taken and plantation is being done as per CPCB guidelines and DFO advice. (The plantation details During the period <b>April 2023 to September 2023</b> , is attached as <b>annexure 08</b> )

10	Company shall adopt rainwater-harvesting measures to recharge the groundwater.	We have Installed the rainwater harvesting system at various location in our industry and we have adopting 6.5 hectare pond as from gram punchayat as per guideline of CGWA/UPGWD for recharging of ground water.
11.	Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the' occupational health centre shall be strengthened and the medical records of each employee shall be maintained separately.	In Compliance The Surveillance pro-programme is already in our system regularly and medical records of each employee are also maintained at our Occupational center. (The health certificate of all employee for the period <b>April 2023 to September 2023</b> , by our occupational health center Doctor, is attached as <b>annexure 09</b> )

General conditions																																			
S.N.	Details	Details																																	
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. As per stipulations made by UPPCB, Lucknow, we got Consolidated Consent to Operate and Authorization 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, <b>1981</b> having reference no. <b>170549/UPPCB/Basti(UPPC BRO)/CTO/both/BASTI/2022 Date: 09/12/2022</b> , with validity up to <b>December 2024</b> . The copy is attached as <b>annexure 10 &amp; 11</b> .																																	
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 will be 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 the 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. The Statistical data of ambient air analysis for the period <b>April 2023 to September 2023</b> , is as under. All results are well within norms of SPCB. <table border="1" data-bbox="857 1543 1477 1774"> <thead> <tr> <th colspan="5">Ambient Air Analysis Report (Apr 23 to Sep 23)</th> </tr> <tr> <th rowspan="2">Parameter</th> <th rowspan="2">Limit</th> <th colspan="3">Result in micro grm/m<sup>3</sup></th> </tr> <tr> <th>Site 01</th> <th>Site 02</th> <th>Site 03</th> </tr> </thead> <tbody> <tr> <td>PM 10</td> <td>100</td> <td>82.16</td> <td>78.89</td> <td>78.15</td> </tr> <tr> <td>PM 2.5</td> <td>60</td> <td>43.50</td> <td>42.06</td> <td>41.02</td> </tr> <tr> <td>SO<sub>2</sub></td> <td>80</td> <td>09.02</td> <td>8.75</td> <td>7.46</td> </tr> <tr> <td>NO<sub>2</sub></td> <td>80</td> <td>18.60</td> <td>17.60</td> <td>16.28</td> </tr> </tbody> </table> The recent ambient air analysis report of three location are attached as <b>annexure 12</b>	Ambient Air Analysis Report (Apr 23 to Sep 23)					Parameter	Limit	Result in micro grm/m <sup>3</sup>			Site 01	Site 02	Site 03	PM 10	100	82.16	78.89	78.15	PM 2.5	60	43.50	42.06	41.02	SO <sub>2</sub>	80	09.02	8.75	7.46	NO <sub>2</sub>	80	18.60	17.60	16.28
Ambient Air Analysis Report (Apr 23 to Sep 23)																																			
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PM 10	100	82.16	78.89	78.15																															
PM 2.5	60	43.50	42.06	41.02																															
SO <sub>2</sub>	80	09.02	8.75	7.46																															
NO <sub>2</sub>	80	18.60	17.60	16.28																															

4.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including 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 (day time) and 70 dBA (night time).	Noise control measures has been taken to keep the noise level well within the 85 dBA and ambient level below 75 dB (day time) and 70 dB (night time). In present period, the average ambient noise level 62.4 dBA in day time and 50.0 dBA in night time (The recent Noise level monitoring report is attached as <b>annexure 13</b> with report code no. AN 060923-36)
5.	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA <i>IEMP</i> report.	All the Environmental protection measures has been taken and implemented for effective compliance of safeguards recommended in EIA/EMP reports. The Details of Expenditure on Environment Management is attached as <b>annexure 14</b>
6.	A separate environmental management cell equipped with full-fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.	<b>In compliance</b> , the Environmental Management Cell is already in place and well-developed environmental laboratory has been already setup monitoring of environment regularly. The available lab equipment's are given below. (The details of Environmental management cell and lab Instrument are attached as <b>annexure 15 and annexure 16.</b> )
7.	The project authorities shall provide funds of Rs. 16.00 Crore, as mentioned in the no. xix of the questionnaire as capital cost for the Environment' 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.16.00 crores is being utilized gainfully for implementation of conditions stipulated by statutory authorities.
8.	The implementation of the project vis-a-vis environmental action plans will be monitored by Ministry's Regional Office at Lucknow /State Pollution Control Board/Central Pollution Control Board. A six monthly compliance status report along with the monitored data. shall be submitted to the monitoring agencies.	Six monthly compliance status reports along with data are being submitted regularly to UPPCB/CPCB/MoEF.
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 the State	<b>In Compliance.</b> Information had been published in two newspapers, DainikJagran&Rashtriya Sahara on 12.12.2006. <b>annexure 17</b> is attached for reference



	<p>Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests 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:</p>	
10	<p>The Project Authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.</p>	<p>Land development work has started on 10<sup>th</sup> December, 2006.</p>



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## TEST CERTIFICATE

**Issued To:** M/s Bajaj Hindusthan Sugar Ltd.  
**Address:** Unit – Rudhauli (Distillery),  
District – Basti (U.P), India.

**Report Code** : ST-060923-037  
**ULR No.** : TC681423000001/120 F  
**Test Report of** : Stack Emission  
**Service Request No** : NTL/SRF/09/23-010  
**Service Request Date** : 04/09/2023  
**Report Issue Date** : 12/09/2023

### SAMPLING & ANALYSIS DATA

Production Capacity of Plant : 160 KLPD RS/ENA/AA  
Sample drawn on : 05/09/2023  
Sample Drawn By : NTL Representative  
Sample Description : Stack Emission  
Sampling Time : 30 minutes  
Sampling Plan & Procedure : SOP/SE/09  
Analysis Duration : 06/09/2023 To 12/09/2023  
Stack Temperature (°C) : 132  
Source of Emission : Stack Attached to Boiler  
Type of Fuel used : Bagasse + Slope  
Fuel Consumption : 60 TPH  
Operating Load : Normal  
Type of Stack : RCC, Circular  
Diameter of Stack(meter) : 3.0  
Height of Stack from ground level(meter) : 90.0  
Average Velocity of Flue Emission (m/s) : 8.2

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Limits
1.	Particulate Matter (PM)	IS:11255(Part-1)	Plant was under seasonal shutdown	mg/Nm <sup>3</sup>	50
2.	Sulphur dioxide (as SO <sub>2</sub> )	IS:11255(Part-2)		% by volume	Not Specified
3.	Nitrogen (as N <sub>2</sub> )	IS:11255(Part-7)		% by volume	Not Specified
5.	Oxygen (as O <sub>2</sub> )	IS:13270 (Orsat)		% by volume	Not Specified
6.	Carbon dioxide (as CO <sub>2</sub> )	IS:13270 (Orsat)		% by volume	Not Specified
7.	Hydrogen dioxide (as H <sub>2</sub> O)	Gravimetric		% by volume	Not Specified

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

CHECKED BY

AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar – 201301

Branch Office :

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

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## TEST CERTIFICATE

<b>Issued To:</b> M/s Bajaj Hindusthan Sugar Ltd.	<b>Report Code</b> : ST-060923-038
<b>Address:</b> Unit – Rudhauri (Distillery),	<b>ULR No.</b> : TC6814230000017121 F
District – Basti (U.P.), India.	<b>Test Report of</b> : Stack Emission
	<b>Service Request No</b> : NTL/SRF/09/23-010
	<b>Service Request Date</b> : 04/09/2023
	<b>Report Issue Date</b> : 12/09/2023

### SAMPLING & ANALYSIS DATA

Production Capacity of Plant :	160 KLPD RS/ENA/AA
Sample drawn on :	05/09/2023
Sample Drawn By :	NTL Representative
Sample Description :	Stack Emission
Sampling Time :	30 minutes
Sampling Plan & Procedure :	SOP/SE/09
Analysis Duration :	06/09/2023 To 12/09/2023
Stack Temperature (°C) :	124
Source of Emission :	Stack Attached to DG
Capacity :	125 KVA
Type of Fuel used :	HSD
Fuel Consumed per Hour :	20-25 Liter
Normal Operation Schedule :	As per requirement
Type of Stack :	Metal circular
Diameter of Stack (meter) :	0.10
Height of Stack from ground level (meter) :	6.8
Average Velocity of Flue Emission (m/sec) :	7.5
Pollution Control Device (If any) :	Nil

### TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Limits as per EPA acts 1986 (Emission limits Upto 800 KW DG)
1.	Particulate Matter (PM)	IS:11255(Part-1)	0.076	g/kw-hr	0.2
2.	Sulphur dioxide (as SO <sub>2</sub> )	IS:11255(Part-2)	7.12	mg /Nm <sup>3</sup>	Limit not specified
3.	Nitrogen dioxide (as NO <sub>x</sub> )	IS:11255(Part-7)	2.40	g/kw-hr	9.2
4.	Carbon monoxide(as CO)	USEPA Method No.10	0.36	g/kw-hr	3.5
5.	Hydrocarbon(HC)	GC-FID	0.028	g/kw-hr	1.3
6.	Volatile Organic Compound	APHA	<1.0	mg/Nm <sup>3</sup>	No limit specified

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

CHECKED BY

AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

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## TEST CERTIFICATE

<b>Issued To:</b> M/s Bajaj Hindusthan Sugar Ltd.	<b>Report Code</b> : ST-060923-039
<b>Address:</b> Unit – Rudhauri (Distillery), District – Basti (U.P), India.	<b>ULR No.</b> : TC6814230000017122 F
	<b>Test Report of</b> : Stack Emission
	<b>Service Request No</b> : NTL/SRF/09/23-010
	<b>Service Request Date</b> : 04/09/2023
	<b>Report Issue Date</b> : 12/09/2023

### SAMPLING & ANALYSIS DATA

Sample drawn on	:	05/09/2023
Sample Drawn By	:	NTL Representative
Sample Description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Plan & Procedure	:	SOP/SE/09
Analysis Duration	:	06/09/2023 To 12/09/2023
Stack Temperature (°C)	:	228
Source of Emission	:	Stack Attached to D.G.
Capacity	:	1010 KVA
Type of Fuel used	:	HSD
Fuel Consumed per Hours	:	220-240 lph
Normal Operation Schedule	:	As per requirement
Type of Stack	:	Metal circular
Diameter of Stack(Meter)	:	0.25
Height of Stack from ground level(meter)	:	14.8
Average Velocity of Flue Emission (m/sec)	:	14.2

TEST RESULT				Limits as per EPA acts 1986		
S.N.	Parameter	Test Method	Test Value	Emission limit (based on generator sets commissioning date)		
				Before 1.7.2003	Between 1.7.2003 & 1.7.2005	On or after 1.7.2005
1.	Particulate matter (PM) (at 15% O <sub>2</sub> ) mg/Nm <sup>3</sup>	IS-11255(P-1)	38.60	75	75	75
2.	Sulphur dioxide (as SO <sub>2</sub> ), mg/Nm <sup>3</sup>	IS:11255(Part-2)	32.80	Not specified	Not specified	Not specified
3.	Nitrogen dioxide (NO <sub>2</sub> ) (at 15% O <sub>2</sub> ) PPMv	IS:11255(Part-7)	345.2	1100	970	710
4.	Carbon monoxide (as CO) (at 15% O <sub>2</sub> ) mg/Nm <sup>3</sup>	USEPA Method No.10	41.05	150	150	150

NOTE-1:- 1. Oxygen was observed to be 11.9 % during the monitoring.  
2. Emission limits mentioned above as per MoEF Notification dated 9<sup>th</sup> July 2002 for Diesel Engines more than 0.8 MW.

#### Notes:

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- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar-201301

Branch Office :

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

E.: noida.laboratory@gmail.com, info@noidalabs.com W.: www.noidalabs.com



# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)  
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

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## TEST CERTIFICATE

**Issued To:** M/s Bajaj Hindusthan Sugar Ltd.  
**Address:** Unit – Rudhau (Distillery),  
District – Basti (U.P), India.

**Report Code** : W-060923-046  
**ULR No.** : TC6814230000017129 F  
**Test Report of** : Water  
**Service Request No** : NTL/SRF/09/23-010  
**Service Request Date** : 04/09/2023  
**Report Issue Date** : 12/09/2023

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2023  
Sample Drawn By : NTL Representative  
Sample Description : CPU Outlet  
Sample Received On : 06/09/2023  
Sample Quantity/Packing detail : 2 lt/Plastic Cane  
Weather Conditions : Normal  
Analysis Duration : 06/09/2023 To 12/09/2023

### TEST RESULTS.

S.No	Parameter	Test Method	Results	Units	Limits
1.	pH	IS:3025(Part-11)		-	7.0-8.5
2.	Total Dissolved Solid	IS:3025(Part-16):1984		PPM	<2000
3.	Total Suspended Solid	IS:3025(Part-17):1984		PPM	<100
4.	Chemical Oxygen Demand(as O <sub>2</sub> )	APHA 5220 B:2005	Plant was under seasonal shutdown	PPM	<250
5.	Biological Oxygen Demand(as O <sub>2</sub> ) (3 days at 27°C)	IS:3025(Part-44):1993		PPM	<30
6.	Volatile Acid	APHA-23rd Edit		PPM	-
7.	Total Alkalinity	IS-3025 (P-23)		PPM	-

#### Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

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## TEST CERTIFICATE

Issued To: M/s Bajaj Hindusthan Sugar Ltd.  
Address: Unit – Rudhauri (Distillery),  
District – Basti (U.P), India.

Report Code : W-060923-048  
ULR No. : TC6814230000017131 F  
Test Report of : Water  
Service Request No : NTL/SRF/09/23-010  
Service Request Date : 04/09/2023  
Report Issue Date : 12/09/2023

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2023  
Sample Drawn By : NTL Representative  
Sample Received on : 05/09/2023  
Sample description : RO Outlet  
Analysis Duration : 06/09/2023 To 12/09/2023  
Sample Quantity : 2 litre  
Weather Condition : Normal

### TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per CPCB Norm
1.	pH	IS:3025(Part-11):1983	Plant was under seasonal shutdown	7.32	6.5-8.5
2.	Color	IS:3025(Part-4)		Hazen	--
3.	Total Solids	IS:3025(Part-16):1984		mg/l	--
4.	Total Dissolved Solid	IS:3025(Part-16):1984		mg/l	--
5.	Total Suspended Solid	IS:3025(Part-17):1984		mg/l	--
6.	COD (as O <sub>2</sub> )	APHA 5220 B:2005		mg/l	250.0
7.	BOD (3 days at 27 °C)	IS:3025(Part-44):1993		mg/l	30.0

#### Notes:

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CHECKED BY  
*Ajay*

AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

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**Water Used/ Effluent Generation/Day**(Period **April 2023 to September 2023**)**1. Water Consumption:  
(KL/Day)**

- Industrial : 446.75 KL
- Domestic : 56.41 KL(Average Including Horticulture & fire)

**2. Effluent Generated  
(KL/Day)**

- Industrial : 852 KL
- Domestic : 2.0 KL

**3. Effluent Treated (KL/Day)**

- Industrial : 852 KL
- Domestic : 2.0 KL
- Effluent Reused Treatment : Entire Effluent used in process after CPU

**4. Effluent discharged : Zero Discharged**

(We are operating at Zero discharge)

 <b>GROUND WATER DEPARTMENT</b> (Namami Gange & Rural Water Supply Department) Ministry of Jal Shakti Government of Uttar Pradesh			
<b>Form 3 (B)</b> [See Rule 8(1)] <b>Certificate of Registration of User for Abstraction of Ground Water</b> {UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019}			
Registration No.: 202104000029			
Name of the Owner	RAJENDRA KANDPAL		
Designation पद	UNIT HEAD	Company Name कंपनी का नाम	BAJAJ HINDUSTHAN SUGAR LTD
Company Address कंपनी का पता	Village- Athdama, Post- Rudhauil, Distt – Basti (	Authorization Letter प्राधिकार पत्र	Download
Address of the Applicant	Village - Athadama, Post- Rudhauil, District- Basti U.P.	Application Form Serial No.	BSTID421RIN0003
Date of Submission	03/04/2021	Specimen Signature	
<b>Location Particulars</b>			
District	Basti	Block	RUDHAULI
Plot No./Khaera No.	133	Municipality/Corporation	NA
Ward No./Holding No.			NA
<b>Particular of the Existing Well and Pumping Device</b>			
Date of Construction/Sinking of the Well	16/02/2007		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	122.37
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	41.00
Operational Device	Electric Motor	Rate of Withdrawal (m <sup>3</sup> /hr.)	150.00
Date of Energization (In Case of Electric Pump)		16/02/2007	





## GROUND WATER DEPARTMENT

(Namami Gange & Rural Water Supply Department)

Ministry of Jal Shakti  
Government of Uttar Pradesh

### Form 3 (B)

[See Rule 8(1)]

## Certificate of Registration of User for Abstraction of Ground Water

{UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019}

Registration No.: 202104000034

Name of the Owner	RAJENDRA KANDPAL		
Designation पद	UNIT HEAD	Company Name कंपनी का नाम	BAJAJ HINDUSTHANSUGAR LTD
Company Address कंपनी का पता	Village- Athadam, Post- Rudhaull, Distt - Basti (	Authorization Letter प्राधिकार पत्र	Download
Address of the Applicant	Village - Athadama, Post- Rudhaull, District- Basti U.P.	Application Form Serial No.	BST10421RIN0004
Date of Submission	03/04/2021	Specimen Signature	
<b>Location Particulars</b>			
District	Basti	Block	RUDHAULI
Plot No./Khaara No.	133	Municipality/Corporation	NA
Ward No./Holding No.			NA
<b>Particular of the Existing Well and Pumping Device</b>			
Date of Construction/Sinking of the Well	16/02/2007		
Type of Well	Tube Well/Boring	Depth of the Well (In meter)	115.65
Purpose of well	Industrial	Assembly Size(For Tube Well)	
Strainer Position (For Tube Well)			
Type of Pump Used	Submersible	H.P. of the Pump	41.00
Operational Device	Electric Motor	Rate of Withdrawal (m3/hr.)	150.00
Date of Energization (In Case of Electric Pump)		16/02/2007	



**GROUND WATER DEPARTMENT**  
 (Namami Gange & Rural Water Supply Department)  
 Ministry of Jal Shakti  
 Government of Uttar Pradesh

**Form 8 (C)**

[See Rule 8(1)]

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW / EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER**

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: NOC038253

VALID FROM 07/06/2021 TO 06/06/2026

{UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019}

<b>Registration No. : 202105000043</b>			
<b>Name of the Owner</b>	RAJENDRA KANDPAL		
<b>Designation</b> पद	Assistant Vice President (Unit Head- Distillery)	<b>Company Name</b> कंपनी का नाम	BAJAJ HINDUSTHAN SUGAR LTD DISTILLERY DIVISION
<b>Company Address</b> कंपनी का पता	Bajaj Hindusthan Sugar Ltd, Distillery Unit, Atha	<b>Authorization Letter</b> प्राधिकार पत्र	Download
<b>Address of the Applicant</b>	Village - Athadama, Post-Rudhauri, District- Basti U.P.	<b>Application Form Serial No.</b>	BSTI0521NIN0004
<b>Date of Submission</b>	06/05/2021	<b>Specimen Signature</b>	
<b>Location Particulars</b>			
<b>District</b>	Basti	<b>Block</b>	RUDHAULI
<b>Plot No./Khasra No.</b>	Existing premises khasra detail attached	<b>Municipality/Corporation</b>	NA
<b>Ward No./Holding No.</b>			NA
<b>Particular of the Existing Well and Pumping Device</b>			
<b>Date of Construction/Sinking of the Well</b>	01/04/2007		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	122.00
<b>Purpose of well</b>	Industrial	<b>Assembly Size(For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	41.00



**GROUND WATER DEPARTMENT**  
 (Namami Gange & Rural Water Supply Department)  
 Ministry of Jal Shakti  
 Government of Uttar Pradesh

**Form 8 (C)**

[See Rule 8(1)]

**AUTHORIZATION/ NO-OBJECTION CERTIFICATE FOR SINKING OF NEW / EXISTING WELL FOR INDUSTRIAL/ COMMERCIAL/ INFRASTRUCTURAL OR BULK USER OF GROUND WATER**

[Under Section 14 of the Uttar Pradesh Ground Water Management and Regulation Act, 2019.]

AUTHORIZATION/ NO-OBJECTION CERTIFICATE NO: NOC046515

VALID FROM 07/06/2021 TO 06/06/2026

{UIS10(1) of the Uttar Pradesh Ground Water Management and Regulation Act, 2019}

<b>Registration No.: 202105000044</b>			
<b>Name of the Owner</b>	RAJENDRA KANDPAL		
<b>Designation</b> पद	Assistant Vice President (Unit Head- Distillery)	<b>Company Name</b> कंपनी का नाम	BAJAJ HINDUSTHAN SUGAR LTD DISTILLERY DIVISION
<b>Company Address</b> कंपनी का पता	Bajaj Hindusthan Sugar Ltd, Distillery Unit, Atha	<b>Authorization Letter</b> प्राधिकार पत्र	Download
<b>Address of the Applicant</b>	Village - Athadama, Post-Rudhauri, District- Basti U.P.	<b>Application Form Serial No.</b>	BSTI0521NIN0003
<b>Date of Submission</b>	06/05/2021	<b>Specimen Signature</b>	
<b>Location Particulars</b>			
<b>District</b>	Basti	<b>Block</b>	RUDHAULI
<b>Plot No./Khasra No.</b>	Existing premises khasra detail attached	<b>Municipality/Corporation</b>	NA
<b>Ward No./Holding No.</b>			NA
<b>Particular of the Existing Well and Pumping Device</b>			
<b>Date of Construction/Sinking of the Well</b>	01/04/2007		
<b>Type of Well</b>	Tube Well/Boring	<b>Depth of the Well (In meter)</b>	115.00
<b>Purpose of well</b>	Industrial	<b>Assembly Size(For Tube Well)</b>	
<b>Strainer Position (For Tube Well)</b>			
<b>Type of Pump Used</b>	Submersible	<b>H.P. of the Pump</b>	41.00



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## TEST CERTIFICATE

**Issued To:** M/s Bajaj Hindustan Sugar Ltd.  
**Address:** Unit – Rudhauri (Distillery),  
District – Basti (U.P), India.

**Report Code** : W-060623-016  
**ULR No.** : TC6814230000015421 F  
**Test Report of** : Water  
**Service Request No** : NTL/SRF/06/23-026  
**Service Request Date** : 19/06/2023  
**Report Issue Date** : 26/06/2023

### SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL Representative  
Sample Drawn On : 07/04/2023, 10/05/2023, 20/06/2023  
Sample Quantity : 2.0 Lt.  
Sample Description : Ground Water (Bore well No. 01)

S.No	Parameter	Unit	Test Method	Results			Limit (IS-10500:2012)	
				08-04-2023	11-05-2023	21-06-2023	Desirable	Permissible
1	Colour	Hazen	IS:3025(P-04)	<5	<5	<5	5	15
2	Odour	-	IS:3025(P-05)	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	-	IS:3025(P-07 & 08)	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	IS:3025(P-10)	<1.0	<1.0	<1.0	1	5
5	pH	-	IS:3025(P-11)	7.76	7.89	7.54	6.5-8.5	No Relaxation
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	IS: 3025 (P- 23)	184.0	172.0	186.0	200	600
7	Iron (as Fe)	mg/l	IS: 3025(P-53)	0.121	0.148	0.156	0.3	No Relaxation
8	Chlorides (as Cl)	mg/l	IS: 3025 (P- 32)	34.8	35.5	28.2	250	1000
9	Fluoride (as F )	mg/l	IS: 3025 (P-60)	0.216	0.208	0.255	1	1.5
10	TDS	mg/l	IS-3025(P-16)	228	246	278	500	2000
11	Calcium(as Ca <sup>2+</sup> )	mg/l	IS: 3025 (P- 40)	45.6	41.8	42.0	75	200
12	Magnesium (as Mg <sup>2+</sup> )	mg/l	IS: 3025 (P-46)	6.12	7.26	6.89	30	100
13	Sulphate (as SO <sub>4</sub> )	mg/l	IS: 3025 (P- 24)	14.5	18.2	19.4	200	400
14	Nitrate(as NO <sub>3</sub> )	mg/l	IS: 3025 (P- 34)	2.66	2.12	2.50	45	No Relaxation
15	Lead (as Pb)	mg/l	IS-3025(P-47)	NIL	NIL	BDL	0.01	No Relaxation
16	Zinc (as Zn)	mg/l	IS: 3025 (P- 49)	BDL	BDL	BDL	5	15
17	Chromium (as Cr <sup>6+</sup> )	mg/l	Annex J of IS-13428	BDL	BDL	BDL	0.05	No Relaxation
18	Pesticides	mg/l	Table 5	Nil	Nil	Nil	Nil	Nil
19	MNP of Coliform count/100ml	mg/l	IS: 3025 (P- 23)	Nil	Nil	Nil	Abset	10 max

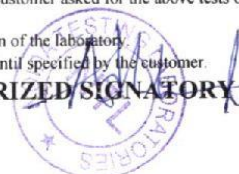
**Notes: BDL- Below detection limit.**

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**CHECKED BY**

Arjuni

**AUTHORIZED SIGNATORY**



Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

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## TEST CERTIFICATE

**Issued To:** M/s Bajaj Hindusthan Sugar Ltd.  
**Address:** Unit – Rudhauri (Distillery),  
District – Basti (U.P), India.

**Report Code** : W-060923-041  
**ULR No.** : TC6814230000017124 F  
**Test Report of** : Water  
**Service Request No** : NTL/SRF/09/23-010  
**Service Request Date** : 04/09/2023  
**Report Issue Date** : 12/09/2023

### SAMPLING & ANALYSIS DATA

Sample Drawn By : NTL Representative  
Sample Drawn On : 11/07/2023, 17/08/2023, 05/09/2023  
Sample Quantity : 2.0 Lt.  
Sample Description : Ground Water (Bore well No. 01)

S.No	Parameter	Unit	Test Method	Results			Limit (IS-10500:2012)	
				12-07-2023	18-08-2023	06-09-2023	Desirable	Permissible
1	Colour	Hazen	IS:3025(P-04)	<5	<5	<5	5	15
2	Odour	-	IS:3025(P-05)	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3	Taste	-	IS:3025(P-07 & 08)	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	IS:3025(P-10)	<1.0	<1.0	<1.0	1	5
5	pH	-	IS:3025(P-11)	7.48	7.16	7.55	6.5-8.5	No Relaxation
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	IS: 3025 (P- 23)	185.0	172.0	167.0	200	600
7	Iron (as Fe)	mg/l	IS: 3025(P-53)	0.121	0.114	0.147	0.3	No Relaxation
8	Chlorides (as Cl)	mg/l	IS: 3025 (P- 32)	37.2	32.8	31.5	250	1000
9	Fluoride (as F )	mg/l	IS: 3025 (P-60)	0.221	0.265	0.218	1	1.5
10	TDS	mg/l	IS-3025(P-16)	266	298	315	500	2000
11	Calcium(as Ca <sup>2+</sup> )	mg/l	IS: 3025 (P- 40)	48.2	46.1	47.5	75	200
12	Magnesium (as Mg <sup>2+</sup> )	mg/l	IS: 3025 (P-46)	5.96	5.70	6.12	30	100
13	Sulphate (as SO <sub>4</sub> )	mg/l	IS: 3025 (P- 24)	15.4	18.8	20.5	200	400
14	Nitrate(as NO <sub>3</sub> )	mg/l	IS: 3025 (P- 34)	1.42	1.60	1.78	45	No Relaxation
15	Lead (as Pb)	mg/l	IS-3025(P-47)	NIL	NIL	BDL	0.01	No Relaxation
16	Zinc (as Zn)	mg/l	IS: 3025 (P- 49)	BDL	BDL	BDL	5	15
17	Chromium (as Cr <sup>6+</sup> )	mg/l	Annex J of IS-13428	BDL	BDL	BDL	0.05	No Relaxation
18	Pesticides	mg/l	Table 5	Nil	Nil	Nil	Nil	Nil
19	MNP of Coliform count/100ml	mg/l	IS: 3025 (P- 23)	Nil	Nil	Nil	Abset	10 max

#### Notes: BDL- Below detection limit.

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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CHECKED BY

AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

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E.: noida.laboratory@gmail.com, info@noidalabs.com W.: www.noidalabs.com

**GREEN BELT DEVELOPMENT****(DISTILLERY DIVISION)****New Plantation for Development of Green Belt****(From April 2023 to September 2023)**

<b>S.NO.</b>	<b>Period</b>	<b>Location</b>	<b>Planted Plant Name</b>	<b>No. of Planted Plant</b>	<b>No. of survival plant</b>
<b>1.</b>	Apr. 2023 – Sep. 2023	Lagoon Area (D)	Jamun, Mango, Sahjan	200	175
<b>2.</b>	Apr. 2023 – Sep. 2023	Distillation Area	Awanla	165	160
<b>3.</b>	Apr. 2023 – Sep. 2023	Biocompost Yard	Jamun, Arjun, Sirsa, Gutel	25000	24000
<b>4.</b>	Apr. 2023 – Sep. 2023	Ware House Area	Kachnar	115	110
<b>5.</b>	Apr. 2023 – Sep. 2023	Near CPU	Kachnar	55	45
<b>6.</b>	Apr. 2023 – Sep. 2023	Biocompost Yard	Jamun,	5500	4800
<b>Total</b>				<b>31035</b>	<b>29290</b>

**Green belts cover above than 33% of the total Project area**

Date:22.09.2023

**TO WHOME SOEVER IT MAY CONCERN**

This is to certify that I have examined 56 employees of M/s Bajaj Hindusthan Sugar Ltd., Unit- Rudhali (Distillery), Basti. All of them are found mentally and physically fit without any contagious disease.



**(Dr. N.K. Singh)**

Medical Officer  
Bajaj Hindusthan Sugar Ltd.  
Unit- Rudhali, (Distillery), Basti



### 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

170549/UPPCB/Basti(UPPCBRO)/CTO/both/BASTI/2022

Date: 09/12/2022

To,

M/s

**BAJAJ HINDUSTHAN SUGAR LTD DISTILLERY DIVISION**

**Bajaj Hindusthan Sugar Limited, Distillery Unit, Athadama, Post Rudhauri,BASTI,BASTI,272151**

**Application Id-  
18722681**

**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 LTD DISTILLERY DIVISION** located at **Bajaj Hindusthan Sugar Limited, Distillery Unit, Athadama, Post Rudhauri,BASTI,BASTI,272151.** 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 LTD DISTILLERY DIVISION **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	R S/Ethanol 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
<b>Domestic</b>	<b>05 KLD</b>	<b>STP</b>	
<b>Industrial</b>	<b>Zero Liquid Discharge</b>	<b>ETP</b>	

(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	As per E(P)A Rules, 1986
2	BOD (mg/L)	As per E(P)A Rules, 1986
3	TSS (mg/L)	As per E(P)A Rules, 1986
4	Fecal Coliform (MPN/100ml)	As per E(P)A Rules, 1986
5	Remarks	05 KLD Treated Effluent

**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	60 TPH Incineration Boiler	Baggasse and Slope	1	Particulate Matter	As per E(P)A Rules, 1986

**Emission Quality Standards**

S No.	Stack no	Parameters	Standards
1	1	Particulate Matter	As per E(P)A 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 consent is valid for the production of 160 KLD Rectified Sprit/Ethanol while using C Heavy Molasses as raw material or 200 KLD Rectified Sprit/Ethanol while using B Heavy Molasses/ Sugar Syrup as raw material.

2. Industry shall operate and maintain the MEE systems to ensure Zero Liquid Discharge, failing which, this consent shall be treated as revoked.

3. The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the premises.

4. The industry shall operate throughout the year (365 Days).

5. The separated water from solid separation system such as condensate from evaporation concentration system such as MEE shall be reutilized in the process. If required, separated water and condensate may be treated before reutilization.

6. Industry shall operate and maintain measuring devices (water/flow meters) at required location (raw water consumption, solid separation system: feed, permeate and reject, evaporation concentration systems: feed concentrate and condensate, water reused in the process & concentrate utilized in drying system/equivalent technology) to record the water balance shortly without delay.

7. The other effluent streams apart from spent wash including spent lees, plant washings, leakages, boiler blow down, etc. shall be used in process.

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

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

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

11. Industry must strictly comply all the directions issued by UPPCB, CPCB and Hon'ble NGT from time to time.

12. The industry shall install roof top rainwater harvesting system and Piezometer in the factory premises.

13. The industry shall always connect the CCTV Camera with the server of CPCB and UPPCB.
14. Industry shall submit Environment Statement to this Board as per provision of Environment (Protection) amendment Rule, 1993 for the previous year ending 31st March on or before 30th September every year.
15. In case industry fails to comply with the directions issued by Board in a stipulated time schedule and/or fails to comply with any of the conditions stipulated in the consent / renewal, the consent to operate (CTO) / renewal of consent issued by Uttar Pradesh Pollution Control Board, Lucknow shall stand automatically withdrawn and manufacturing operations shall be close down without further notice.
16. Construct 0.3 mtr free Board in each lagoon used for storing spent wash to prevent overflow.
17. Maximum 07 days Spent Wash shall be stored in the Lagoon and ensured to send monthly reports regarding spent wash storage and details of water level in each lagoon constructed in industry.
18. Audited Balance Sheet/ C.A. Certificate should be submitted within one month from the date of issue of this Certificate for verification of Consent fee payable.
19. Percentages of solid concentration after MEE shall be analysed by NABL accredited lab and report will be submitted within a month.
20. The unit shall operate and maintain the Air Pollution Control Systems efficiently and continuously so as to satisfy the prescribed emission standards.
21. The unit shall adhere to the ambient Air quality prescribed standards at all the times.
22. The industry shall develop green belt as per the protocol attached with Board's office order dated 16.02.2018 which is available on Board's Website.
23. The industry shall submit stack emission monitoring report every quarter from NABL accredited laboratory.
24. Industry shall strictly comply with conditions mentioned in the charter prepared by CPCB.
25. The Industry shall install on line emission continuous monitoring system and shall ensure regular transmission of data of Continuous Online Emission Monitoring System for to the servers of CPCB and UPPCB. Industry shall submit regular stack monitoring report every month.
26. Ash generated during production process must be disposed off in scientific manner as per guidelines of CPCB/MOEF. It is also mandatory that disposed ash will never affect the Health and Environment of nearby areas and residents.
27. The industry shall use at least 20% of total fuel as bio briquettes in boiler, as per availability.
28. If closure order is issued by CPCB or UPPCB against any defaulting unit, then CTO issued earlier will be suspended during the pendency of the closure period and after ensuring the compliance and after revocation of closure order, the CTO will be deemed to be restored subject to the effective date of revocation of the

closure order, with imposed conditions thereof.

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

RAM KUMAR  
SINGH  
**Chief Environmental Officer, Circle-6**

Copy to:

Regional Officer, U.P. Pollution Control Board, Basti for information and necessary action

RAM KUMAR SINGH  
**Chief Environmental Officer, Circle-6**



**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

170549/UPPCB/Basti(UPPCBRO)/CTO/both/BASTI/2022

Date: 09/12/2022

To,

M/s

**BAJAJ HINDUSTHAN SUGAR LTD DISTILLERY DIVISION****Bajaj Hindusthan Sugar Limited, Distillery Unit, Athadama, Post Rudhauri,BASTI,BASTI,272151**Application Id-  
18722681

**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 LTD DISTILLERY DIVISION** located at **Bajaj Hindusthan Sugar Limited, Distillery Unit, Athadama, Post Rudhauri,BASTI,BASTI,272151.** 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 LTD DISTILLERY DIVISION **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	R S/Ethanol 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	05 KLD	STP	
Industrial	Zero Liquid Discharge	ETP	

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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
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MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

**Issued To:** M/s Bajaj Hindusthan Sugar Ltd.  
**Address:** Unit – Rudhauli (Distillery),  
District – Basti (U.P), India.

**Report Code** : AAQ-060923-033  
**ULR No.** : TC6814230000017116 F  
**Test Report of** : Ambient Air Quality  
**Service Request No** : NTL/SRF/09/23-010  
**Service Request Date** : 04/09/2023  
**Report Issue Date** : 12/09/2023

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2023  
Sample Drawn By : NTL Representative  
Sample description : Ambient Air  
Sampling Location : At the Roof of Bio-Compost Office (Station No. – 1)  
Sampling Plan & Procedure : SOP-AAQ/08  
Production Capacity of Plant : 160 KLPD RS/ENA/AA  
Analysis Duration : 06/09/2023 to 12/09/2023  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.14  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>), Fine Particulate (PM<sub>2.5</sub>) Sampler  
Weather Condition : Clear  
Wind Direction : East to West  
Sampling Machine Placed at Height (From ground) : 2.5 Mtr

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	82.16	µg /m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	43.50	µg /m <sup>3</sup>	60.0
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	9.02	µg /m <sup>3</sup>	80.0
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	18.60	µg /m <sup>3</sup>	80

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

CHECKED BY

AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar – 201301

Branch Office :

HARIDWAR | RUDRAPUR | CHANDIGARH | DEHRADUN | PUNE

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MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

## TEST CERTIFICATE

**Issued To:** M/s Bajaj Hindusthan Sugar Ltd.  
**Address:** Unit – Rudhauli (Distillery),  
District – Basti (U.P), India.

**Report Code** : AAQ-060923-034  
**ULR No.** : TC6814230000017117 F  
**Test Report of** : Ambient Air Quality  
**Service Request No** : NTL/SRF/09/23-010  
**Service Request Date** : 04/09/2023  
**Report Issue Date** : 12/09/2023

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2023  
Sample Drawn By : NTL Representative  
Sample description : Ambient Air  
Sampling Location : At the roof of Distillery Admin Block (Station No. – 2)  
Sampling Plan & Procedure : SOP-AAQ/08  
Production Capacity of Plant : 160 KLPD RS/ENA/AA  
Analysis Duration : 06/09/2023 to 12/09/2023  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.14  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>), Fine Particulate (PM<sub>2.5</sub>) Sampler  
Weather Condition : Clear  
Wind Direction : East to West  
Sampling Machine Placed at Height (From ground) : 2.5 Mtr

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	78.89	µg /m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	42.06	µg /m <sup>3</sup>	60.0
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	8.75	µg /m <sup>3</sup>	80.0
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	17.60	µg /m <sup>3</sup>	80

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar- 201301

Branch Office :

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## TEST CERTIFICATE

Issued To: M/s Bajaj Hindusthan Sugar Ltd.  
Address: Unit – Rudhauri (Distillery),  
District – Basti (U.P), India.

Report Code : AAQ-060923-035  
ULR No. : TC6814230000017118 F  
Test Report of : Ambient Air Quality  
Service Request No : NTL/SRF/09/23-010  
Service Request Date : 04/09/2023  
Report Issue Date : 12/09/2023

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2023  
Sample Drawn By : NTL Representative  
Sample description : Ambient Air  
Sampling Location : At Home roof in Village of Patwaria (Station No. – 3)  
Sampling Plan & Procedure : SOP-AAQ/08  
Production Capacity of Plant : 160 KLPD RS/ENA/AA  
Analysis Duration : 06/09/2023 to 12/09/2023  
Average Flow Rate of SPM (m<sup>3</sup>/min.) : 1.14  
Average Flow Rate of Gases (lpm) : 1.0  
Sampling Instrument Used : Respirable Dust Sampler (PM<sub>10</sub>), Fine Particulate (PM<sub>2.5</sub>) Sampler  
Weather Condition : Clear  
Wind Direction : East to West  
Sampling Machine Placed at Height (From ground) : 2.5 Mtr

### TEST RESULT

S.No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 Part-XXIII	78.15	µg /m <sup>3</sup>	100.0
2.	Particulate Matter (PM <sub>2.5</sub> )	IS:5182 Part-XXIV	41.02	µg /m <sup>3</sup>	60.0
3.	Sulphur dioxide (as SO <sub>2</sub> )	IS:5182 Part-II	7.46	µg /m <sup>3</sup>	80.0
4.	Nitrogen dioxide (as NO <sub>2</sub> )	IS:5182 Part-VI	16.28	µg /m <sup>3</sup>	80

#### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

CHECKED BY

AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

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## TEST CERTIFICATE

**Issued To:** M/s Bajaj Hindusthan Sugar Ltd.  
**Address:** Unit – Rudhauri (Distillery),  
District – Basti (U.P), India.

**Report Code** : AN-060923-036  
**ULR No.** : TC6814230000017119 F  
**Test Report of** : Ambient Noise  
**Service Request No** : NTL/SRF/09/23-010  
**Service Request Date** : 04/09/2023  
**Report Issue Date** : 12/09/2023

### SAMPLING & ANALYSIS DATA

Sample Drawn On : 05/09/2023  
Sample Drawn By : NTL Representative  
Sample Received On : 06/09/2023  
Sample description : Ambient Noise  
Sampling Location : Admin Office  
Sampling Time : 24 hrs  
Production Capacity of Plant : 160 KLPD RS/ENA/AA

### TEST RESULT

S. No	Test Parameters	Results	Units	Requirement (as per CPCB Guidelines Limits in dB (A) Leq		
				Category of Area/ Zone	Day Time	Night Time
1.	EQUIVALENT NOISE LEVEL (6.0 AM TO 10.0 PM)	62.4	dB(A)	Industrial Area	74	71
				Commercial Area	64	56
2.	EQUIVALENT NOISE LEVEL (10.0 PM TO 6.0 AM)	50.0	dB(A)	Residential Area	58	48
				Silence Zone	51	42

#### Notes:

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CHECKED BY

AUTHORIZED SIGNATORY



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**COST DETAILS OF ENVIRONMENT MANAGEMENT****Bajaj Hindusthan Sugar Ltd.****Unit: RudhauriBasti****Capacity: 160 KL/D Rectified Sprit/ENA/Absolute Alcohol**

<b>Sr. No</b>	<b>Details</b>	<b>Spent Cost in Project (Crores)</b>	<b>Expenditure in 2021-22 (Cr.)</b>	<b>Expenditure in 2022-23 (Cr.)</b>
<b>1</b>	<b>Integrated Evaporation Treatment System ( FLUBEX)</b>	<b>8.4</b>	<b>-</b>	<b>-</b>
<b>2</b>	<b>Bio-composting Treatment Process</b>			<b>--</b>
A	Land cost (31.6 Acres)	3.46	-	-
B	Cost of construction of Bio-compost	3.16		
C	Aerotiller ( 02 No)	0.29	--	--
D	loader ( 02 No)	0.20	--	--
E	JCB ( 01 No)	0.18		
F	Tractor Trolley ( 04 No)	0.22		
	Sub total	15.91		
<b>3</b>	<b>Green belt development</b>	1.29	.0250	.0250
<b>4</b>	<b>Environmental Lab equipments</b>	0.07	.0050	.0050
<b>5</b>	<b>Third Party Monitoring</b>	-	.020	.020
<b>6</b>	<b>Bio-Gas Plant.</b>	14.00	--	--
<b>7.</b>	<b>5 Stage Multi-Effect Evaporator (MEE)</b>	16.00	0.10	0.20
<b>8.</b>	<b>Extra ZLD work</b>	-	0.90	0.90
<b>9.</b>	<b>Installation of Incinerator boiler</b>	47.00	--	--
<b>10.</b>	<b>Installation of Ammonia Striper</b>	2.00	--	--
<b>11.</b>	<b>Up-gradation of CPU</b>	2.50	1.80	0.50
	<b>Total cost in crores</b>	98.77	2.850	1.875
Spent cost up to 2022-23 for Environment Management		<b>104.6575 Corers</b>		
<b>Total spent cost for Environment Management</b>		<b>(104.6575+1.875) =106.5325 Corers</b>		

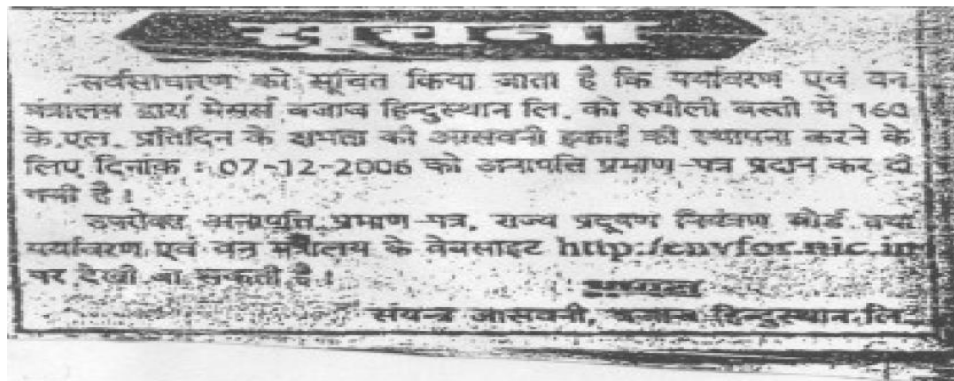
**ENVIRONMENTAL MANAFEMENT CELL**

<b>Sr. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Responsibility</b>
1	Mr. Dinesh Pundir	Sr. G.M. (Distillery Head)	Overall control of the Distillery including Environment
2	Mr. Dinesh Pundir	Sr. GM Engineering	Responsible for Engineering and water Management.
3	Mr. Vipul Kumar Rai	Manager HR& Admin	Overall control of HR & Administration
4	Mr. Sarvindar Singh	Manager- Production	Overall control of the Production & water Management
5	Mr. Anil Kumar Singh	Sr. Officer - ETP	Overall control of ETP and reporting to the Distillery Head.
6	Mr. Dinesh Kumar Chaudhary	Officer (EHS)	Responsible for the Control of Environment Health & Safety.
7	Mr. P.K.Rai	Manager Horticulture	Responsible for the green Belt Development.
8	Dr. N. K.Rathaur	Medical Officer	Responsible for Occupational health.
9	Mr. Raj Kapoor Kewat	Asst. Manager Engg.	Responsible for Maintenance
10	Mr. Brijesh Kumar Mishra	Astt, Manager - Instrument	Overall control of the Instrument including Web camera

**LAB EQUIPMENTS**

Sr. No.	Parameter	Name of Instrument	Quantity
1	pH	PH Meter	1
2	BOD	BOD incubator	1
3	Distilled water	Glass distillation apparatus	1
4	Sodium, Potassium in ground water soil	Flame photometer	1
5	Conductivity	Conductivity meter	1
6	Max. Min Temperature & Humidity	Thermo-Hygrometer	1
7	TSS& TDS	Laboratory Electrical Oven	1
8	TVSS, MLVSS	Muffle Furnace	1
9	COD	COD distillation Unit	1
10	TSS	Centrifugal Machine	1
11	Oil & grease	Oil & grease apparatus	1
12	Ammonical Nitrogen & Total Kjeldahl Nitrogen	Kjeldahl distillation Apparatus	1
13	Sox , Nox, Nitrate Nitrite	Spectrophotometer	1
14	Preservation of sample & chemical solution	Refrigerator.	1
15	TSS TDS & Chemical Solution Preparation	Electronic Balance	1
16	Sample of stack emission	Stack Monitoring Kit	1
17	Monitoring of Noise level	Digital sound level meter	1
18	Monitoring of Ambient Air Quality	High Volume Air Sampler	1





Rashtriya Sahara

12.12.2006

Rudauli Unit

