



Majhaulia Sugar Industries

(A unit of Jay Shree Tea & Industries Ltd.)

WP/100/23

May 24, 2023

To,
The Additional Director
Ministry of Environment & Forest,
Govt. of India, Eastern Regional Officer,
A/3, Chandrashekharapur,
Bhubaneswar – 751 023

Sub:- SIX MONTHLY COMPLIANCE REPORT OF June, 2023.

Dear Sir,

Please find enclosed herewith the Six Monthly Compliance Report alongwith details of analysis of treated and untreated water, ground water, Boiler Stack Analysis, Ambient Air Quality, Ambient Noise Level report from 01.10.2022 to 31.03.2023.

We are also enclosing herewith the photocopy of E.T.P. flow diagram, Process flow diagram, NOC from CGWA, New Delhi with renewal application, Authorization of Hazardous waste photocopy with renewal application, copy of discharge and emission Consent Order issued by Bihar State Pollution Control Board, Patna for your information and necessary records, please.

Thanking you,
Yours Faithfully,

For Majhaulia Sugar Industries
(A unit of Jay Shree Tea & Industries Ltd)


Authorized Signatory


Encl: As Above.



Registered Office and Head Office : Industry House, 15th floor, 10, Camac Street, Kolkata - 700017
Phone nos : +91-33-22827531/34. Fax : +91-33-22827585

Mill : Majhaulia, Dist. West Champaran, Bihar-845454, Phone : +91-6254-282921, 282173 Fax : +91-6254-282242
CIN : U15122WB2015PTC207281

DETAILED CONDITION COMPLIANCE OF ENVIRONMENTAL CLEARANCE

(PERIOD 01.10.2022 TO 31.03.2023)

<i>Conditions as per MoEF F. No. J-11011/43/2009-IA II (I)</i>	<i>Compliance Details</i>																										
Specific Conditions																											
1. The waste water generation shall not exceed 500 m ³ /day which after treatment shall be used for wet scrubber makeup, spray pond and irrigation purpose to achieve zero discharge. The domestic effluent shall be disposed off in the soak pit	During the period Apr. – Sep. every year our plant is not being operated. Our plant goes in operation from Nov. – Mar. every year during cane crushing period. During the period 2022-23, our sugar mill was in operation from Nov.'2022 to Mar.'2023. 648 m ³ /day of waste water is generated during season & after treatment 605 m ³ /day it was being used for wet scrubber makeup, spray pond and irrigation purpose to achieve zero discharge. The domestic effluent is being disposed off in the soak pit inside the premises.																										
2. As per the CPCB requirement storage for the treated effluent from the sugar unit shall not exceed 15 days capacity	We have constructed treated effluent storage lagoon of for 15 days storage capacity. (Capacity : 12600 m ³ {90m. x 70m. x 2 m.}).																										
3. Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and this ministry	<p>Adequate numbers of ground water monitoring stations has been set up around the Project Area and regular analysis is being done. Ground water analysis trends for the period Oct.'22 – Mar.'23 is as under ;</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Parameters</th><th style="text-align: center;">All values in mg/l. except pH & Turbidity Minm. - Maxm. Range</th></tr> </thead> <tbody> <tr><td>1. pH</td><td style="text-align: center;">7.37 – 7.58</td></tr> <tr><td>2. Turbidity on NTU</td><td style="text-align: center;">0.8 – 1.1</td></tr> <tr><td>3. Total Dissolved Solids (TDS)</td><td style="text-align: center;">252 – 295</td></tr> <tr><td>4. Total Hardness as CaCO₃</td><td style="text-align: center;">182 – 216</td></tr> <tr><td>5. Calcium as Ca</td><td style="text-align: center;">43.3 – 52.9</td></tr> <tr><td>6. Magnesium as Mg</td><td style="text-align: center;">15.1 – 20.4</td></tr> <tr><td>7. Iron as Fe</td><td style="text-align: center;">0.20 – 0.42</td></tr> <tr><td>8. Total Alkalinity as CaCO₃</td><td style="text-align: center;">196 – 232</td></tr> <tr><td>9. Chloride as Cl</td><td style="text-align: center;">10 – 18</td></tr> <tr><td>10. Sulphate as SO₄</td><td style="text-align: center;">16.2 – 23.8</td></tr> <tr><td>11. Nitrate as NO₃</td><td style="text-align: center;">1.36 – 2.2</td></tr> <tr><td>12. Fluoride as F</td><td style="text-align: center;">0.27 – 0.34</td></tr> </tbody> </table> <p>Analysis report is being attached herewith as Annexure - I</p>	Parameters	All values in mg/l. except pH & Turbidity Minm. - Maxm. Range	1. pH	7.37 – 7.58	2. Turbidity on NTU	0.8 – 1.1	3. Total Dissolved Solids (TDS)	252 – 295	4. Total Hardness as CaCO ₃	182 – 216	5. Calcium as Ca	43.3 – 52.9	6. Magnesium as Mg	15.1 – 20.4	7. Iron as Fe	0.20 – 0.42	8. Total Alkalinity as CaCO ₃	196 – 232	9. Chloride as Cl	10 – 18	10. Sulphate as SO ₄	16.2 – 23.8	11. Nitrate as NO ₃	1.36 – 2.2	12. Fluoride as F	0.27 – 0.34
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4. Particulate emissions from the bagasse fired boilers shall be controlled by installation of multi cyclone / wet scrubber and emissions shall be dispersed through stack of height as per CPCB standards. The DG set shall be provided with acoustic enclosures to mitigate the noise pollution and emissions shall be dispersed through stack of height as per CPCB Standards.	<ul style="list-style-type: none"> - 3 Nos. Boilers have been equipped with Wet Scrubber - Emission is being dispersed through the stack of height 30 m., 40 m & 40 m. - 1 no. silent DG Set of 600 KVA is installed for off season. 																										

Conditions as per MoEF F. No. J-11011/43/2009-LA II (I)	Compliance Details
5. The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF the respective Zonal Office of CPCB and the State Pollution Control Board. The criteria pollutants levels namely SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored and displayed at a convenient locations near the main gate of the company in the public domain.	We have uploaded the compliance of stipulated environmental clearance conditions on company's website www.jayshreesugar.in . Update of compliance is done of periodical basis.
6. The company shall obtain permission from the State/Ground Water Department to draw the water as may be applicable to this case.	We have obtained NOC for ground water withdrawal from CGWB vide NOC No. CGWA/NOC/IND/REN/1/2021/6499, valid upto 31.12.2022. Renewal Application has been submitted and it is under process. (Copy enclosed).
7. Green belt in 33% of the 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 the local DFO	Green belt in 33% of the plant area is being developed. Green belt is being developed with the consultation of DFO. (Already submitted in Jun.'11 six monthly report.)
8. The company shall adopt rain water harvesting measures to recharge the ground water	We have implemented rain water harvesting plan as per guidelines of CGWB.
General Conditions	
1. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests	No further expansion or modifications in the plant will be done without prior approval of the Ministry of Environment & Forests
2. 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 ₂ , NO _x are anticipated in consultation with the State Pollution Control Board	Ambient Air Quality Monitoring Stations have been set up in the down wind direction at 4 locations and monitoring of AAQ is being done on regular basis during operation of plant. The AAQ monitoring results (average values) of Nov.'22 – Mar.'23 shows that PM ₁₀ varied between 75.6 – 81.9 µg/m ³ , PM _{2.5} varied between 38.4 – 41.1 µg/m ³ , SO ₂ varied between 12.8 – 14.6 µg/m ³ & NO ₂ varied between 31.5 – 36.6 µg/m ³ Attached as Annexure – II
3. Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters	Regular monitoring of effluent is being done. Effluent sampling stations have been set up in consultation with the State Pollution Control Board. Analysis of treated effluent is being done on regular basis during operation of plant. Analysis trends of treated effluent shows that values of pH varied from 7.37 – 7.64, TSS varied from 34 – 52 mg/l., TDS varied from 487 – 747 mg/l., BOD varied between 18 – 26 mg/l., COD varied between 96 – 128 mg/l. All these values are within the limit prescribed under E(P) rules.

Conditions as per MoEF F. No. J-11011/43/2009-IA II (I)	Compliance Details
4. 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.	<p>Characteristics of Treated Effluent & Stack Emissions as within the norms stipulated under the EPA Rules.</p> <p>Monitoring of Stack Emission is being done on regular basis (during operation of Sugar mill). Stack Emission Monitoring results for the period Nov.'22 to Mar.'23 show that concentration of PM varied from 23.3 – 47.3 mg/NM³, SO₂ varied from 11.3 – 16.9 mg/NM³ & NO₂ varied from 14.3 – 41.8 mg/NM³.</p>
5. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) (day time) and 70 dB(A) (night time)	<p>The noise level in and around the plant area are well within the prescribed limits under EPA Rules.</p> <p>The Ambient noise level during Nov.'22 – Feb.'23 per day time varied from 57.3 – 68.8 dB(A) & for night time varied from 47.6 – 56.1 dB(A)</p> <p>Noise Monitoring report is attached as Annexure III.</p>
6. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP	<p>All the environmental protection measures and safeguards recommended in the EIA/EMP is being complied</p>
7. 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	<p>One Doctor, two compounder and one Dresser is appointed for regular health check up for the employees and emergency services is being provided to nearby areas. records of health check up of the employees are being maintained separately.</p>
8. A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions	<p>We are maintaining an Environmental Laboratory for Testing of Treated Effluent.</p> <p>Environment Management Cell is formed under Chairmanship of Unit Head.</p>
9. The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by the non-recurring expenditure to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	<p>The project authorities are providing requisite funds (22.5 lacs) for both recurring and non-recurring expenditure to implement the conditions stipulated by Ministry of Environment & Forests as well as the State Government.</p>

<i>Conditions as per MoEF F. No. J-11011/43/2009-LA II (I)</i>	<i>Compliance Details</i>
10. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban local body and the local NGO, if any, from who suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Already submitted in Dec.'10 six monthly report.
11. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.	We are submitting 6-monthly EC compliance report regularly in the month of June and December every year.
12. 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 Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment & Forests at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office	A copy of Paper Advertisement has been send earlier with 01 st Compliance Report in the month of Dec.'09.
13. 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.	The proposed expansion work has been completed for 50 TCD from 3500 TCD in Nov.'10 and our factory is running with the expanded capacity from the season 2010-11.



BIHAR STATE POLLUTION CONTROL BOARD
PARIVESH BHAWAN, PLOT NO. NS-B/2, PALIPUTRA INDUSTRIAL AREA,
PATLIPUTRA, Patna - 800 010

Ref. No.- P/T-2-02/05(part-III)/ 4119

Patna, dated- 03.12.18

DISCHARGE CONSENT ORDER

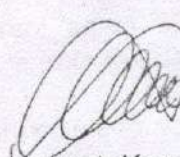
With reference to the online application no- OR538N009104/1679158 dated 29.08.2018 of M/s Majhauria Sugar Industries Pvt. Ltd, At & P.O.-Majhauria, District- West Champaran-845454 for consent under sections 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, he/they is/are granted consent to operate his/their Sugar Mill (Capacity-5000 TCD) At & P.O.-Majhauria, Dist-West Champaran-845454 for the period from 01.10.2018 to 30.09.2023 with the following conditions:-

- 1 That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 24, 31 and 33A of the Water (Prevention & Control of Pollution) Act, 1974 and further shall extend co-operation to the Board in performing its functions entrusted under sections 20,21,23,30 and 32 of the Act;
- 2 That, he/they shall comply with the requirements of rule 14 of the Environment (Protection) Rules, 1986; provisions (whichever applicable) of the Hazardous And Other Wastes (Management and Transboundary Movement), Rules, 2016, rules 4,5,7,8,10,11,12,13,15 and 18 of the Manufacture, Storage and Import of Hazardous Chemical Rules,1989; and the provisions of the Public Liability Insurance Act,1991, whichever is applicable;
- 3 That, he/they shall monitor his/their effluent(s) regularly and maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for;
- 4 That, he/they shall submit application for consent again 30 days before the expiration of the period of consent or within 30 days from the date of receipt of this order, whichever is applicable;
- 5 That, they shall operate and maintain online effluent monitoring system which has been installed as per directions of CPCB and shall connect/upload the online monitoring data at CPCB/SPCB server;
- 6 That, effluent treatment plant(comprising primary, secondary and tertiary treatment) shall be operated to treat the trade effluent so as to achieve the standards prescribed under the Rules or as directed time to time, whichever is stringent;
- 7 The treated effluent shall be disposed on land for irrigation after achieving the required standard and in no any case treated/untreated effluent shall be find its way outside the factory premises directly or indirectly. They shall maintain **Zero Liquid Discharge** and water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept and 15 days storage capacity (pucca & lined lagoon) shall be provided for treated effluent to take care of no demand for irrigation;
- 8 That, the unit shall comply with as undertaken (vide undertaking submitted online on dated 26.11.2018) which are as under:
 - i) That, the unit shall complete laying of pipeline from ETO to lined lagoon and irrigation pipeline network within one month;
 - ii) That, the unit shall re-use the treated effluent in the plant for wet scrubbing, sprinkling on road for dust suppression and for horticulture purposes till irrigation channel network is completed;
 - iii) That, the unit shall not discharge any effluent in 'Kohara River';

- iv) That, the unit shall monitor the water quality of Kohara River near Rajghat (upstream and downstream both); and
- v) That, the non-compliance of the aforesaid conditions shall be liable to forfeit of Bank Guarantee of Rs 20.0 lac submitted by the unit in compliance of last direction u/s 33A of the Water Act, 1974.
- 9 That, operation of ETP of sugar mill shall be started at least one month before starting of cane crushing to achieve desired MLSS so as to meet prescribed standards from day one the operation of mill. ETP shall be operated even after completion of the crushing season so that any effluent generated during washing & maintenance shall be used in irrigation purposes after proper treatment;
- 10 That, provision of separate industrial effluent drain and storm water drain shall be maintained. Process effluent/any waste water shall not be allowed to mix with storm water and storm water drain shall be passed through guard pond;
- 11 That, the bank guarantee submitted by the unit towards pollution control measures/system/compliance of condition no.-8 shall be forfeited in case of adverse as specified in them; and
- 12 That, the Environmental Statement as prescribed in the E (P) Rules, 1986 [see rule 14] for the each financial year ending the 31st March, shall be submitted by the month of September every year.

To

The Director,
M/s Majhulia Sugar Industries Pvt. Ltd.,
At & P.O.-Majhulia,
District- West Champaran-845454.

 3/12/18
(Alok Kumar)
Member-Secretary



BIHAR STATE POLLUTION CONTROL BOARD

PARIVESH BHAWAN, PLOT NO. NS-B/2, PALIPUTRA INDUSTRIAL AREA,

PATLIPUTRA, Patna - 800 010

Ref. No.- P/T-2-02/05(part-III)/ 4/18

Patna, dated-03.12.18


EMISSION CONSENT ORDER

With reference to the online application no- OR538N009104/1679158 dated 29.08.2018 of M/s Majhulia Sugar Industries Pvt. Ltd, At & P.O.-Majhulia, District-West Champaran-845454 for consent under sections 21 of the Air (Prevention & Control of Pollution) Act, 1981, he/they is/are granted consent to operate his/their Sugar Mill (Capacity-5000 TCD) At & P.O.-Majhulia, Dist-West Champaran-845454 for the period from 01.10.2018 to 30.09.2023 with the following conditions:-

- 1 That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 22,23 and 31A of the Air (Prevention & Control of Pollution) Act, 1981 and further shall extend co-operation to the Board in performing its functions entrusted under sections 24,25 and 26 of the Act;
- 2 That, he /they shall comply with the requirements of rule 14 of the Environment (Protection) Rules, 1986; provisions (whichever applicable) of the Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2016; rules 4,5,7,8,10,11,12,13,15,17 and 18 of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989; and the provisions of the Public Liability Insurance Act, 1991, whichever is applicable;
- 3 That, he/they shall monitor his/their emission(s) and the ambient air quality from representative point regularly and shall maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for;
- 4 That, he/they shall submit application for consent again 30 days before the expiration of the period of consent or within 30 days from the date of receipt of this order, whichever is applicable;
- 5 That, they shall submit stack monitoring and AAQ (including noise) report monthly within consent period;
- 6 That, all air pollution control facilities provided should be operative and maintained properly;
- 7 That, the solid waste (bottom ash of boiler etc) shall be disposed of properly at designated place and a monthly report containing quantity of generation, re-used, if any and disposed, site of disposal etc shall be submitted to the Board;
- 8 That, good housekeeping shall be maintained;
- 9 That, tree plantation shall be done with consultation of local DFO office to develop as green belt;
- 10 They shall comply with direction of the Board issued time to time; and
- 11 That, the Environmental Statement as prescribed in the E (P) Rules, 1986 [see rule 14] for the each financial year ending the 31st March, shall be submitted by the month of September every year.

To

The Director,
M/s Majhulia Sugar Industries Pvt. Ltd,
At & P.O.-Majhulia,
District- West Champaran-845454.

 3/12/18

(Alok Kumar)
Member-Secretary

(Alok Kumar)



BIHAR STATE POLLUTION CONTROL BOARD

Parivesh Bhawan, Patliputra Industrial Area, Patna-800 010
EPABX-0612-2261250/2262265, Fax-0612-2261050; E-mail-bspcb@yahoo.com, Website -http://bspcb.bih.nic.in

FORM 2 [See rule 6(2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROLBOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES.

1. Number of authorization and date of issue : HW/B-277 Patna, dated-21.5.18
2. Reference of application (No. and date) : 1138819, dated-17.11.2017
3. **M/s Manjhaulia Sugar Industries Pvt. Ltd.** is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at **Manjhaulia, West Champaran**

Details of Authorization

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorized mode of disposal or recycling or utilization or co processing, etc.	Quantity (Ton/Annum)
1.	Used or Spent oil (HW cat. no. 5.1) and Oil & Grease Skimming (HW cat. no. 35.4) as per Schedule-I	Used oil: Generation, collection, storage, transportation and offer for sale for the purpose of its recycling to authorized recycler. Oil & grease skimming: Incineration through authorized TSDF or can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule-V either as such or after reprocessing.	Used oil: 1.5 KLA (1.275 TPA) Oil & grease skimming : 3.0 TPA

- 1) The authorization shall be valid for a period of **five years (from 17.12.2017 to 16.12.2022)**.
2) The authorization is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A. General conditions of authorization:

- The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
- The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
- Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
- The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
- It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
- The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- An application for the renewal of an authorization shall be made as laid down under these Rules.
- Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific conditions:

- The unit shall display details of hazardous waste at the main gate on board of 6'x 4' size.
- The unit shall maintain a record of hazardous waste and other waste handled in **Form-3** and shall submit annual return in **Form-4** to this Board on or before 30th June of every year.
- The unit shall not store the hazardous waste in the premises for a period of more than 90 days provided the board has extended the said period.
- The unit shall store its hazardous waste (Used Oil, HW cat. no. 5.1) for the temporary period in MS drums under covered shed for the purpose of its sale to the authorized recycler and oil and grease skimmed (HW category no. 35.4) for the incineration through authorized TSDF Facility or can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule-V either as such or after reprocessing.
- The unit shall ensure that no damage is caused to environment during collection, storage & transportation of its HW.

(Alok Kumar)
Member Secretary



BIHAR STATE POLLUTION CONTROL BOARD
Parivesh Bhawan, Patliputra Industrial Area, Patna - 800 010
EPABX-0612-2281250/2282265; Fax-0612-2281050;
Email: bspcb@yahoo.com; Website - <http://bspcb.bih.nic.in>

Field Inspection Report of M/s Manjhaulia Sugar Industries Pvt. Ltd. (Old Name: Jay Shree Sugar Mill), Manjhaulia, West Champaran.

1. The unit was inspected on 17.02.2018. Sri Sarvesh Dube, GM (Production) and Sri K. Jha, Chemist were present during inspection. The unit was found operational.
2. The unit is a sugar mill of crushing capacity 5000 TCD. The manufacturing process involves, extraction of Juice (crushing or milling), purification/clarification of juice, concentration, crystallization, separation of sugar crystals followed by weighing and packaging of sugar.
3. The unit has installed ETP for treatment of waste water. Waste water is generated from different sections of sugar mill. Treated effluent is reused in the plant and excess is discharged to a seepage proof lined (impervious base) lagoon for storage for its use in irrigation.
4. The unit has installed wet scrubber as APCD for control of particulate matter emission from bagasse fired boilers of 40 TPH and 32 TPH steam generation capacity.
5. The unit has D.G Sets of 600 KVA and 320 KVA with acoustic enclosure. The unit uses lubricating oil in the D.G. sets.
6. The unit generates used/spent oil, approx. 1.5 KL per annum (HW category no. 5.1) and oil and grease skimming approx. 3 tone per annum (HW category no. 35.4) from ETP system. These wastes are stored in M.S. drums.
7. The unit has submitted online application for renewal of authorization valid up to 16.12.2017 with necessary documents viz. CTOs, annual returns of previous years as compliance of authorization, compliance report, undertaking, process flow sheet & test reports on discharge and emission.
8. In view of the above facts, authorization may be granted under the Hazardous and Other Waste (Management & Trans-boundary Movement) Rules, 2016 with the following specific conditions:-
 - a) The unit shall display details of hazardous waste at the main gate on board of 6'x 4' size.
 - b) The unit shall maintain a record of hazardous waste and other waste handled in **Form-3** and shall submit annual return in **Form-4** to this Board on or before 30th June of every year.
 - c) The unit shall not store the hazardous waste in the premises for a period of more than 90 days provided the board has extended the said period.
 - d) The unit shall store its hazardous waste (Used Oil, HW cat. no. 5.1) for the temporary period in MS drums under covered shed for the purpose of its sale to the authorized recycler and oil and grease skimmed (HW category no. 35.4) for the incineration through authorized TSDF Facility or can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule-V either as such or after reprocessing.
 - e) The unit shall ensure that no damage is caused to environment during collection, storage & transportation of its HW.

(S.N. Jayaswal)
Board Analyst.

Online Consent Management & Monitoring System
Ministry of Environment, Forest and Climate Change
Government of India

Date : 16-12-2022

Bihar
State Pollution Control Board

Welcome MAJHAULIA SUGAR INDUSTRIES PRIVATE LIMITED

On-line Payment Receipt

Receipt No.
Depositor Name
Bank Id.
Bank Name.
Application No.
Name and Address of Industry
Name of Regional Office
Applied For
Payment Date

807857298
S.K. Tapuriah
530
State Bank of India
7026362
MAJHAULIA SUGAR INDUSTRIES PRIVATE LIMITED, AT-MAJHAULIYA, WEST CHAMPARAN,
MAJHAULIA, WEST CHAMPARAN
Group
HWM
Fri Dec 16 16:37:53 IST 2022

Payment Details

HWM Fee (Rs.)
Total Amount Paid (Rs.)
Transaction Status

2000.0
2009.44
Successfully Completed

Proceed

Print

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भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Majhaulia Sugar Industries Pvt. Ltd.		
Project Address:	P.o.: Majhaulia, Dist. West Champaran		
Village:	Majhwalia	Block:	Majhaulia
District:	Pashchim Champaran	State:	Bihar
Pin Code:			
Communication Address:	Majhaulia, West Champaran, Majhaulia, Pashchim Champaran, Bihar - 845454		
Address of CGWB Regional Office :	Central Ground Water Board Mid Eastern Region, 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road Dak Banglow, Patna, Bihar - 800011		

1.	NOC No.:	CGWA/NOC/IND/REN/1/2021/6499												
2.	Application No.:	21-4/241/BR/IND/2017						3.	Category:	Safe				
									(GWRE 2020)					
4.	Project Status:	Existing Ground Water						5.	NOC Type:	Renewal				
6.	Valid from:	01/01/2020						7.	Valid up to:	31/12/2022				
8.	Ground Water Abstraction Permitted:													
		Fresh Water		Saline Water		Dewatering				Total				
		m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year			
		659.00	123975.00											
9.	Details of ground water abstraction /Dewatering structures													
Total Existing No.:1							Total Proposed No.:0							
		DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Abstraction Structure*		0	0	1	0	0	0	0	0	0	0	0	0	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps														
10.	Ground Water Abstraction/Restoration Charges paid (Rs.):							188557.00						
11.	Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.						No. of Piezometers		Monitoring Mechanism					
								Manual	DWLR**	DWLR With Telemetry				
**DWLR - Digital Water Level Recorder						2		0	1	1				

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³/d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)



Government of India
Ministry of Jal Shakti
Department of Water Resources, River Development and Ganga Rejuvenation
Central Ground Water Authority (CGWA)



Application for Issue of NOC to Abstract Ground Water (NOCAP)

Logout

Welcome : pinkamit
Previous Login Date Time: 31/12/2022 16:24:38 PM , IP Address: 223.190.114.204

[Applicant Home](#) [Apply](#) [Feedback](#) [Change Password](#) [Profile](#) [Submitted Grievance](#) [Payment](#)

- ☒ Location Details
- ☒ Communication Address
- ☒ Land Use Details
- ☒ Water Requirement Details
- ☒ Recycled Water Usage
- ☒ Groundwater Abstraction Structure- Existing
- ☒ Groundwater Abstraction Structure- Proposed
- ☒ Other Details
- ☒ Attachment
- ☒ Ready To Submit
- ☒ Final Submit

RENEW - INDUSTRIAL USE: SUCCESSFUL SUBMISSION

[Print Application](#)

Your Application Submitted Successfully. Your Application Detail are :

Application Number : 21-4/241/BR/IND/2017

Details of Existing CGWA/NOC/IND/REN/1/2021/6499

NOC : (01/01/2020 - 31/12/2022)

Applied For Renewal : 2nd

Name of Industry : MAJHAULIA SUGAR INDUSTRIES PVT. LTD.

Submitted Date: 31/12/2022

Net Ground Water Requirement: 659.00

Please note your application number for future reference.

Your application has been submitted to office:
Regional Director
Central Ground Water Board Mid Eastern Region
6th & 7th Floor
Lok Nayak Jai Prakash Bhawan
Frazer Road Dak Banglow
PATNA
BIHAR
PinCode : 800011

Payment Status

Application Name

MAJHAULIA SUGAR INDUSTRIES PVT. LTD.

Application Number

Amount

10000

Transaction Id

3112220015585

Transaction Date

2022-12-31 18:29:37

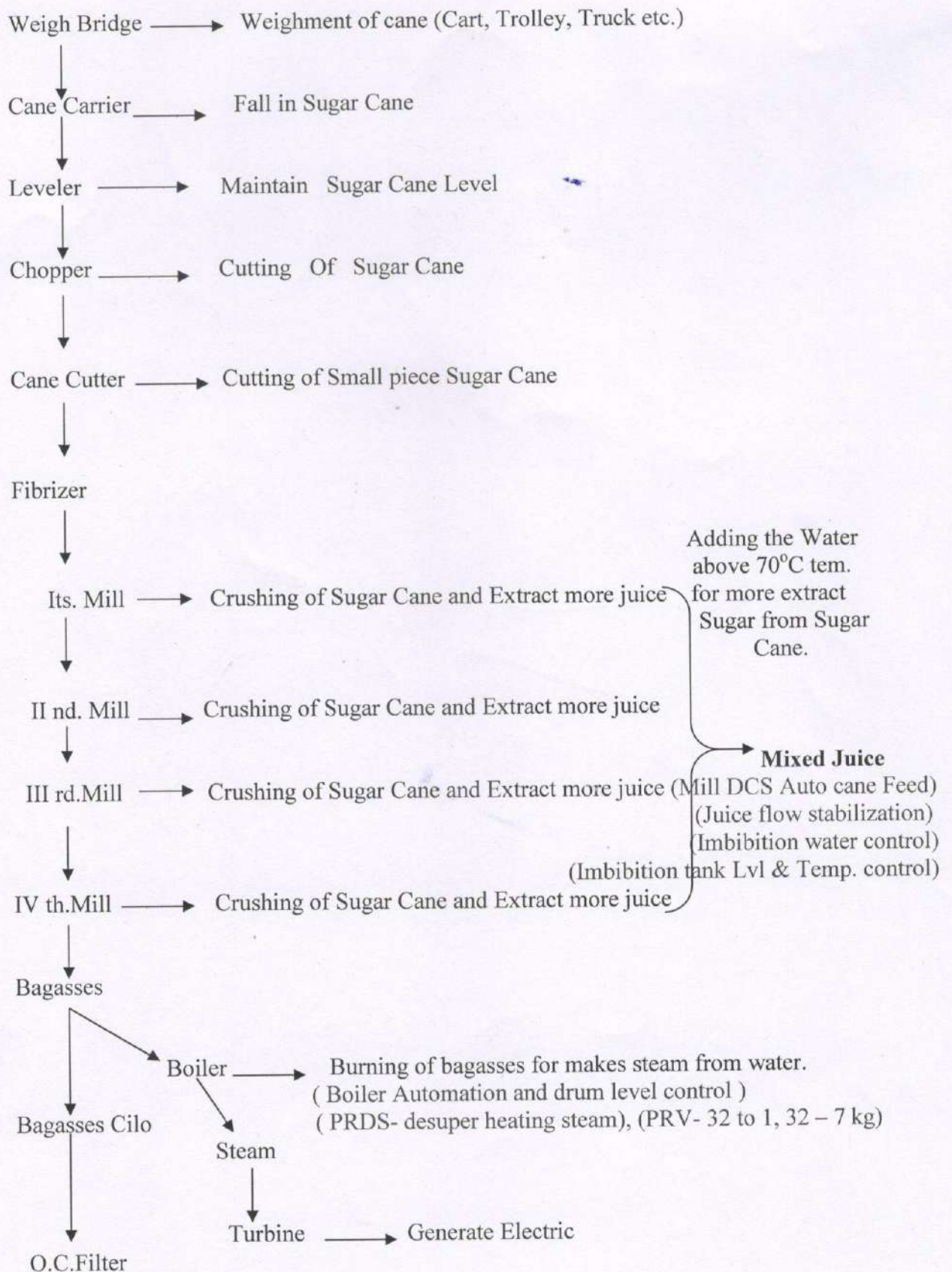
Transaction Status

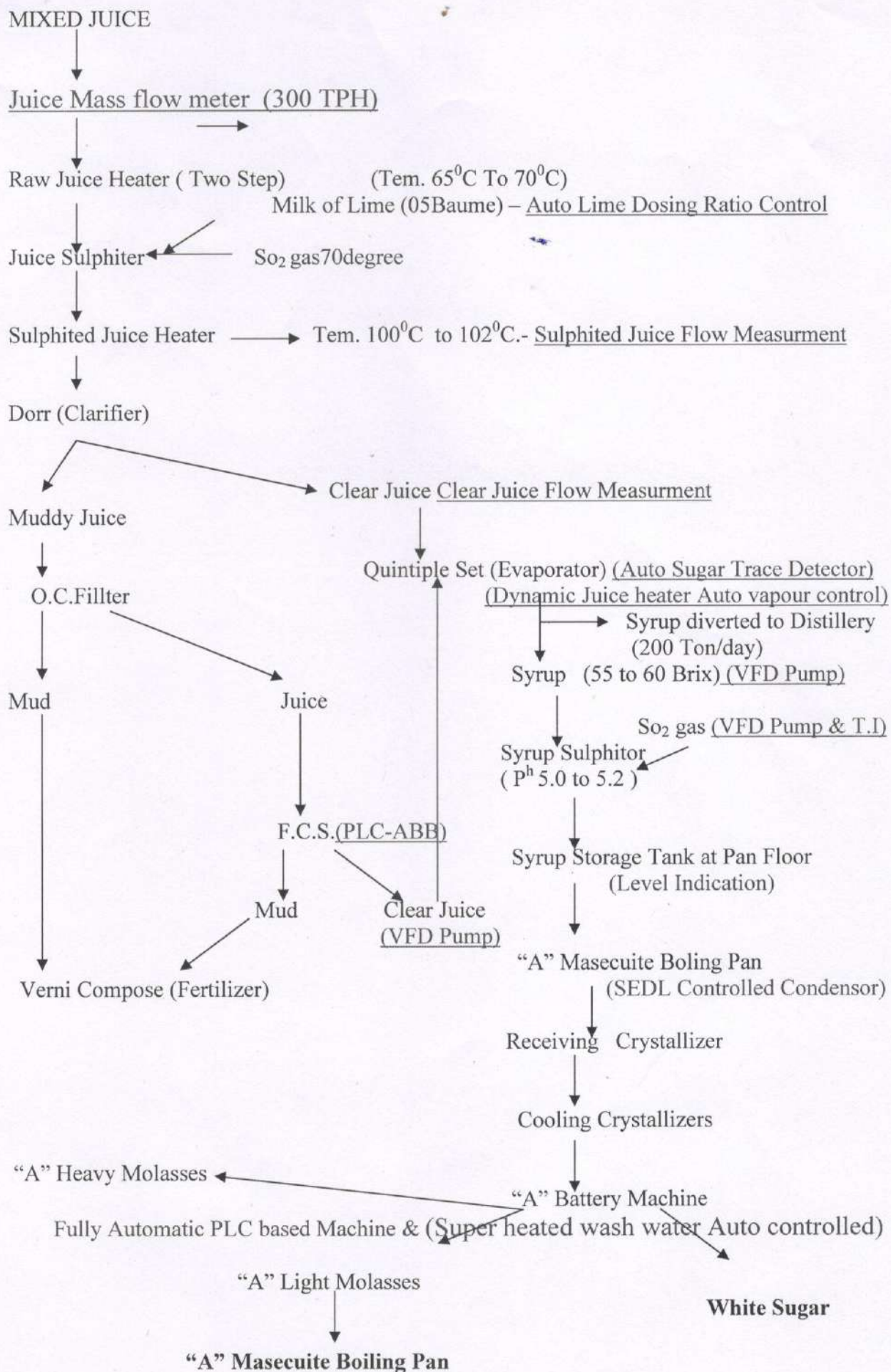
Success!

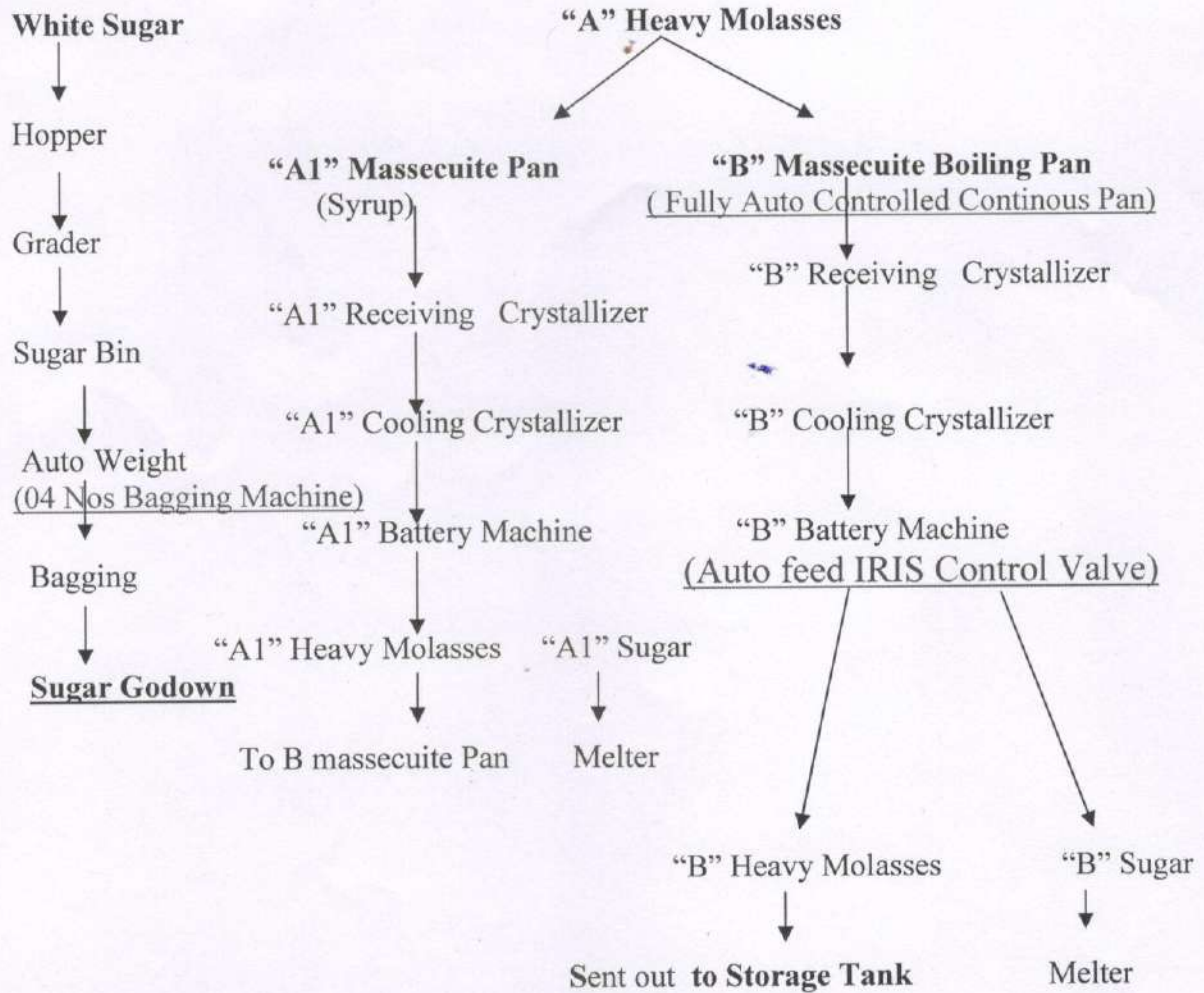
Note: Please keep these information for future reference

[Home](#)

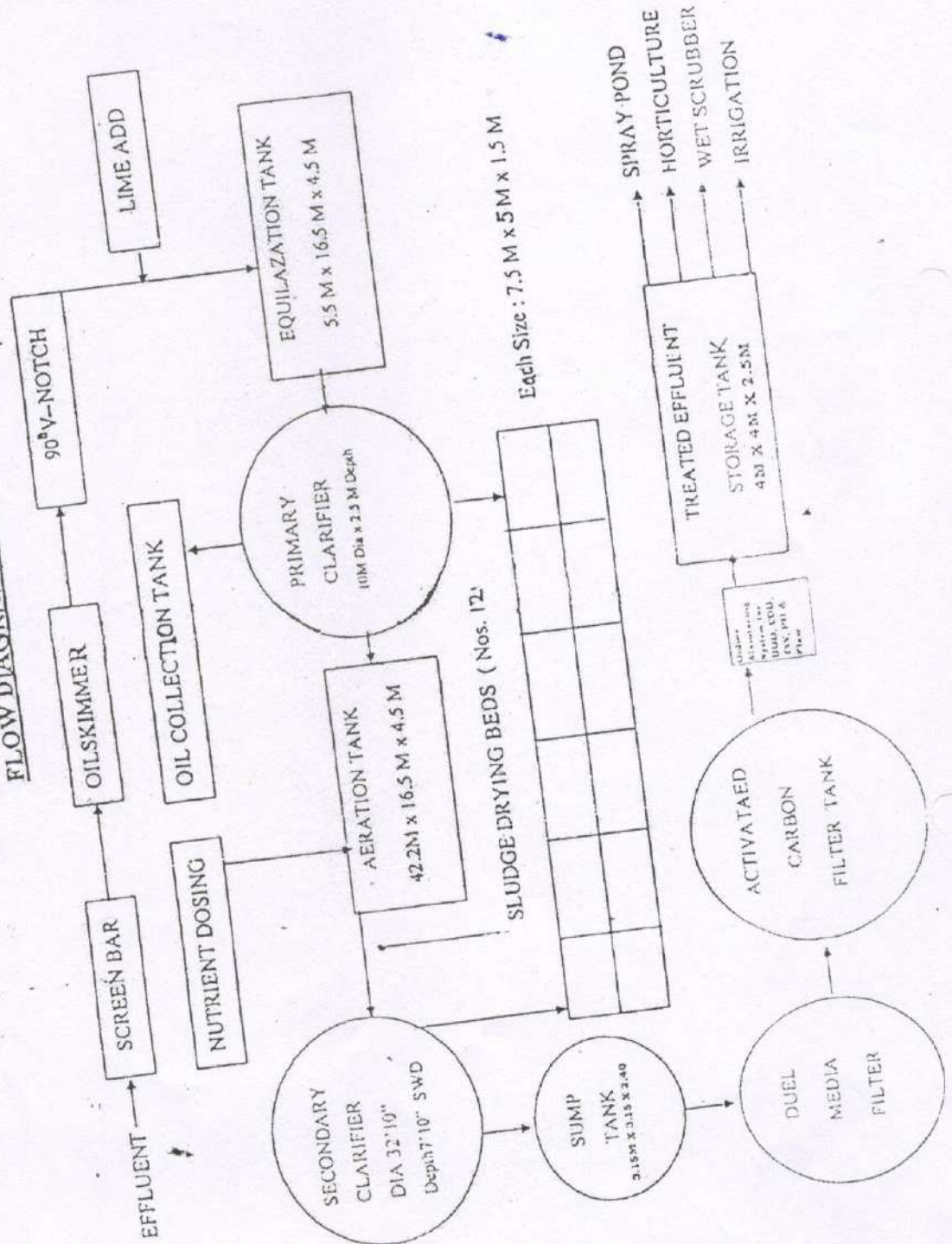
Majhaulia sugar Industries Pvt. Ltd. MAJHAULIA
Process Flow Chart Year 2021-22







FLOW DIAGRAM OF E.T.P.





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TEST REPORT

Ref. No. STH/TR/22-23/6868		Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a]	Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b]	Details of Sample			Borewell Water Sample			
[c]	Sample Collected by			SHIVA TEST HOUSE on 02.03.23			
[d]	Sampling Location			Collected from Borewell Near Guest House			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	26	Humidity (%)	62
[g]	No. & Type of Container			Plastic Bottle (02)			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			BW-6868			
[j]	Sample Condition on Receipt			Fit for Analysis			
[k]	Items required to be tested			As per Contract			
[l]	Date of receiving the sample			03.03.23			
[m]	Analysis Start Date / Analysis Completion Date			03.03.23 / 04.03.23			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results	
				Acceptable Limit	Permissible Limit in the absence of alternative source		
1	Colour	Hazen	IS 3025 (Part-4)	5	15	<5.0	
2	Odour	--	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable	
3	Taste	--	IS 3025 (Part-7))	Agreeable	Agreeable	Agreeable	
4	pH	--	IS 3025 (Part-11)	6.5 to 8.5	No relaxation	7.37	
5	Turbidity	NTU	IS 3025 (Part-10)	1.0	5.0	0.8	
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	295.0	
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	184.0	
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	48.9	
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	15.1	
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.38	
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1	<0.01	
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.0	232.0	
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	18.0	
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	23.5	
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	2.20	
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.32	

SHIBESHWAR PRASAD

Digitally signed by SHIBESHWAR PRASAD
Date: 2023.03.20 15:45:38 +05'30'

Verified by :
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2023.03.20 17:18:47 +05'30'

Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6868(MCB)			Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt :08.08.2022				
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W. Champaran – 845 454							
[b] Details of Sample				Borewell Water Sample							
[c] Sample Collected by				SHIVA TEST HOUSE on 02.03.23							
[d] Sampling Location				Collected from Borewell Near Guest House							
[e] Method of Sampling				IS 1622							
[f] Sampling Environmental Condition				Temp (°c)		26		Humidity (%)		62	
[g] No. & Type of Container				One Sterilized Glass Bottle							
[h] Sample Quantity				250 ml							
[i] Sample Code				BW-6868							
[j] Sample Condition on Receipt				Fit for analysis							
[k] Items required to be tested				As per contract							
[l] Whether any specific Method of Test has been suggested by the customer				No							
[m] Date of receiving the sample in Laboratory				03.03.23							
[n] Analysis Start Date / Analysis Completion Date				03.03.23 / 04.03.23							
S.N.		Parameters		Unit		Method of Test		Limit as per IS 10500: 2012		Results	
1.		Total Coliform		/ 100 ml		IS 1622:1981		Shall not be detectable in 100 ml.		Not Detected / 100 ml	



Vishal Sharma
Authorized Signatory

Section In-Charge (Microbiology)

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Email : sthpatna1@yahoo.co.in ; info@shivatest.com

Website : www.shivatest.com ; www.shivatesthouse.com





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TEST REPORT

Ref. No. STH/TR/22-23/6869		Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Untreated Effluent Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 02.03.23			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	62
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-6869			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per Contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample				03.03.23			
[n] Analysis Start Date / Analysis Completion Date				03.03.23 / 06.03.23			
S. N.	Parameters	Unit	Method of Test	Result			
1	pH	----	IS 3025 (Part-11)	7.89			
2	Suspended Solids	mg/l.	IS 3025(Part-17)	272.0			
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	3.9			
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	280.0			
5	C.O.D.	mg/l.	APHA 5220 B	864.0			
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	1.1			
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	21.3			
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	38.6			



SHIBESHWAR PRASAD

Digitally signed by
SHIBESHWAR PRASAD
Date: 2023.03.20
15:46:13 +05'30'

Verified by :
Technical Manager

Shreyasee Prasad

Digitally signed by
Shreyasee Prasad
Date: 2023.03.20
17:22:00 +05'30'

Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6869(A)	Dt: 20.03.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022	
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample	Untreated Effluent Sample			
[c] Sample Collected by	SHIVA TEST HOUSE on 02.03.23			
[d] Sampling Location	Collected from Inlet of ETP			
[e] Method of Sampling	IS 3025, APHA			
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 62	
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle			
[h] Sample Quantity	2 Litres			
[i] Sample Code	E-6869			
[j] Sample Condition on Receipt	Fit for Analysis			
[k] Items required to be tested	As per Contract			
[l] Whether any specific Method of Test has been suggested by the customer	No			
[m] Date of receiving the sample	03.03.23			
[n] Analysis Start Date / Analysis Completion Date	03.03.23 / 06.03.23			
S. N.	Parameters	Unit	Method of Test	Result
1.	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2232.0



SHIBESHW
AR PRASAD

Digitally signed by
SHIBESHWAR PRASAD
Date: 2023.03.20
15:46:26 +05'30'

Verified by :
Technical Manager

Shreyasee
Prasad

Digitally signed by
Shreyasee Prasad
Date: 2023.03.20
17:22:12 +05'30'
Authorized Signatory
Quality Manager

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Website : www.shivatest.com ; www.shivatesthouse.com





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TEST REPORT

Ref. No. STH/TR/22-23/6870		Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Treated Effluent sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 02.03.23			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	62
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-6870			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				03.03.23			
[n] Analysis Start Date / Analysis Completion Date				03.03.23 / 06.03.23			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH	---	IS 3025 (Part-11)		5.5 to 8.5		7.51
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		34.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		10.00		1.2
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)		100.00		22.0
5	C.O.D.	mg/l.	APHA 5220 B		Not Specified		96.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		Not Specified		0.72
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		Not Specified		10.1
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		Not Specified		17.36



SHIBESHWAR PRASAD

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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6870(A)	Dt: 20.03.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022		
[o] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454				
[p] Details of Sample	Treated Effluent sample				
[q] Sample Collected by	SHIVA TEST HOUSE on 02.03.23				
[r] Sampling Location	Collected from Outlet of ETP				
[s] Method of Sampling	IS 3025, APHA				
[t] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%)	62	
[u] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)				
[v] Sample Quantity	2 Litres				
[w] Sample Code	E-6870				
[x] Sample Condition on Receipt	Fit for Analysis				
[y] Items required to be tested	As per contract				
[z] Whether any specific Method of Test has been suggested by the customer	No				
[aa] Date of receiving the sample in Laboratory	03.03.23				
[bb] Analysis Start Date / Analysis Completion Date	03.03.23 / 06.03.23				
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00	487.0



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Prasad

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TEST REPORT

Ref. No. STH/TR/22-23/6871		Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Treated Effluent sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 02.03.23			
[d] Sampling Location				From Aeration Tank			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	62
[g] No. & Type of Container				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-6871			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the party				No			
[m] Date of receiving the sample in Laboratory				03.03.23			
[n] Analysis Start Date / Analysis Completion Date				03.03.23 / 06.03.23			
Sl. No.	Parameters			Unit	Method of Test		Result
1.	Mixed Liquor Suspended Solids (MLSS)			mg/l	IS 3025 (Part-24)		2490.0
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)						2230.0



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TEST REPORT

Ref. No. STH/TR/22-23/6872	Dt: 20.03.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022		
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454				
[b] Details of Sample	Lagoon Sample				
[c] Sample Collected by	SHIVA TEST HOUSE on 02.03.23				
[d] Sampling Location	Collected from Pond Water				
[e] Method of Sampling	IS 3025, APHA				
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 62		
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)				
[h] Sample Quantity	2 Litres				
[i] Sample Code	E-6872				
[j] Sample Condition on Receipt	Fit for Analysis				
[k] Items required to be tested	As per contract				
[l] Whether any specific Method of Test has been suggested by the customer	No				
[m] Date of receiving the sample in Laboratory	03.03.23				
[n] Analysis Start Date / Analysis Completion Date	03.03.23 / 06.03.23				
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	pH	---	IS 3025 (Part-11)	5.5 to 8.5	7.17
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	43.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00	1.7
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	100.00	24.0
5	C.O.D.	mg/l.	APHA 5220 B	Not Specified	116.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	Not Specified	1.5
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	Not Specified	11.2
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	Not Specified	18.5



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TEST REPORT

Ref. No. STH/TR/22-23/6872(A)	Dt: 20.03.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022		
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454				
[b] Details of Sample	Lagoon Sample				
[c] Sample Collected by	SHIVA TEST HOUSE on 02.03.23				
[d] Sampling Location	Collected from Pond Water				
[e] Method of Sampling	IS 3025, APHA				
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 62		
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)				
[h] Sample Quantity	2 Litres				
[i] Sample Code	E-6872				
[j] Sample Condition on Receipt	Fit for Analysis				
[k] Items required to be tested	As per contract				
[l] Whether any specific Method of Test has been suggested by the customer	No				
[m] Date of receiving the sample in Laboratory	03.03.23				
[n] Analysis Start Date / Analysis Completion Date	03.03.23 / 06.03.23				
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00	451.0



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TEST REPORT

Ref. No. STH/TR/22-23/6873-6876		Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				SHIVA TEST HOUSE on 02.03.23			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)		26	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)				Filter Paper; Glass Impinger			
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4			
[i] Sample Quantity				30 ml x 24 (for each NO ₂ , SO ₂)			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				03.03.23			
[n] Analysis Start Date / Analysis Completion Date				03.03.23 / 04.03.23			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Near Main Gate (SC_A-6873)	Near Guest House (SC_A-6874)	Near Cooling Tower (SC_A-6875)	Near Store (SC_A-6876)
Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	80.4 73.5 81.0	74.3 72.6 78.2	77.7 75.5 76.6	74.5 71.5 76.6
Particulate Matter (PM _{2.5})	µg / m ³	CPCB GMAAP	60	43.2 38.3 40.1	43.2 34.6 38.3	40.6 33.2 38.1	42.0 33.3 38.3
Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	16.2 14.5 11.2 12.2 14.2 18.3	22.8 11.6 11.4 9.3 14.5 21.7	19.1 13.8 11.5 13.5 12.5 14.6	17.9 16.3 13.0 11.0 13.0 15.9
Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	44.1 40.1 32.4 29.6 31.7 40.0	44.3 39.5 32.4 31.7 36.6 38.7	41.1 35.4 31.9 30.5 34.7 38.3	42.0 38.7 31.8 29.8 36.6 37.9
Average Value				78.3	75.1	76.6	74.2
PM ₁₀	µg / m ³			40.7	38.7	37.3	37.8
PM _{2.5}	µg / m ³			14.4	15.2	14.3	14.5
SO ₂	µg / m ³			36.3	38.7	35.3	36.1
NO ₂	µg / m ³						

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TEST REPORT

Ref. No. STH/TR/22-23/6877		Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 02.03.23			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	62
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS 1PLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-6877			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				03.03.23			
[o] Analysis Start Date / Analysis Completion Date				03.03.23 / 04.03.23			
Parameters			Unit	Method of Test		Results	
1. Type of Fuel			---			Bagasse	
2. Stack Connected to			Dumping Grate Boiler No. 9 having Steam generation capacity 32.0 T / hr.				
3. Stack No.			I				
4. Height of Stack above ground level (as reported)			30.00 M.				
5. Dia of Stack at Top (as reported)			1.55 M.				
6. Material of Constriction			ID Fan				
7. Material of Construction			M.S.				
8. Ambient Temperature			26.0				
9. Flue Gas Temperature			109.0				
10. Velocity			m/sec.	IS 11255 (Part-3)	7.0		
11. Volumetric Flow Rate			NM³/hr.		37272.0		
12. Sampling Point			Meter		11.00 M.		
					Limit as per E (P) Rules Schedule I	Concentration (mg / NM³)	
13. Particulate Matter (P.M.)			mg / NM³	IS 11255 (Part-1)	500.00 mg / NM³ (12% CO₂)	34.76	
14. Sulphur Dioxide (SO₂)			mg / NM³	IS 11255 (Part-2)	Not Specified	15.82	
15. Oxides of Nitrogen (NO₂)			mg / NM³	IS 11255 (Part-7)	Not Specified	14.36	

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TEST REPORT

Ref. No. STH/TR/22-23/6878	Dt: 20.03.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		SHIVA TEST HOUSE on 02.03.23	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	26 Humidity (%) 62
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		VSS IPLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-6878	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the party		No	
[n] Date of receiving the sample		03.03.23	
[o] Analysis Start Date / Analysis Completion Date		03.03.23 / 04.03.23	
Parameters	Unit	Method of Test	Results
1. Type of Fuel	---	IS 11255 (Part-3)	Bagasse
2. Stack Connected to	---		Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.
3. Stack No.	---		II
4. Height of Stack above ground level (as reported)	Meter		40.00 M.
5. Dia of Stack at Top (as reported)	Meter		2.55 M.
6. Material of Constriction	---		ID Fan
7. Material of Construction	---		M.S.
8. Ambient Temperature	°C		26.0
9. Flue Gas Temperature	°C		118.0
10. Velocity	m/sec.		7.0
11. Volumetric Flow Rate	NM ³ /hr.		97846.5
12. Sampling Point	Meter		19.00 M.
			Limit as per E (P) Rules Schedule I
13. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	500.00 mg / NM ³ (12% CO ₂)
14. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	IS 11255 (Part-7)	Not Specified

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TEST REPORT

Ref. No. STH/TR/22-23/6879		Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 02.03.23			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	62
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS IPLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-6879			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				03.03.23			
[o] Analysis Start Date / Analysis Completion Date				03.03.23 / 04.03.23			
Parameters		Unit	Method of Test		Results		
1. Type of Fuel		----	IS 11255 (Part-3)		Bagasse		
2. Stack Connected to		----			Dumping Grate Type Boiler No. 11 having Steam generation capacity 40.0 T / hr.		
3. Stack No.		----			III		
4. Height of Stack above ground level (as reported)		Meter			40.00 M.		
5. Dia of Stack at Top (as reported)		Meter			2.50 M.		
6. Material of Constriction		----			ID Fan		
7. Material of Construction		----			RCC		
8. Ambient Temperature		°C			26.0		
9. Flue Gas Temperature		°C			124.0		
10. Velocity		m/sec.			7.0		
11. Volumetric Flow Rate		NM ³ /hr.			93333.6		
12. Sampling Point		Meter			21.00 M.		
					Limit as per E(P) Rules Schedule I	Concentration	
13. Particulate Matter (P.M.)		mg / NM ³	500.00 mg / NM ³ (12% CO ₂)		500.00 mg / NM ³ (12% CO ₂)		40.34
14. Sulphur Dioxide (SO ₂)		mg / NM ³	Not Specified		Not Specified		11.31
15. Oxides of Nitrogen (NO ₂)		mg / NM ³	Not Specified		Not Specified		24.19

SHIBESHWAR PRASAD

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Date: 2023.03.20
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Verified by :
Technical Manager



Shreyasee Prasad

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17:24:42 +05'30'

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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6880		Dt: 20.03.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022		
[a] Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454					
[b] Sampling Environmental Condition			Temp. (°C)		26		Humidity (%)	62
[c] Details of Sample			Monitoring of Ambient Noise Level within factory periphery					
[d] Monitored by			SHIVA TEST HOUSE on 02.03.23					
[e] Items required to be tested			As per request					
[f] Whether any specific Method of Test has been suggested by the party			No					
S. N	Monitoring Location	Unit	Time Weighted Average (TWA) of Noise Level					
			Day time (6:00 am to 10:00 pm)		Night time (10:00 pm to 6:00 am)			
1.	Near Main Gate	dB(A)	64.2		55.2			
2.	Near Guest house	dB(A)	61.3		49.3			
3.	Near Cooling Tower	dB(A)	67.1		54.5			
4.	Near ETP	dB(A)	64.5		52.6			
5.	Near Sugar Godown	dB(A)	59.7		51.2			
N.B.:		The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.						



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Technical Manager

Shreyasee Prasad
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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6143		Dt: 16.02.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Untreated Effluent Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 08.02.23			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	24	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-6143			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per Contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample				09.02.23			
[n] Analysis Start Date / Analysis Completion Date				09.02.23 / 12.02.23			
S. N.	Parameters	Unit	Method of Test	Result			
1	pH	----	IS 3025 (Part-11)	8.41			
2	Suspended Solids	mg/l.	IS 3025(Part-17)	296.0			
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	4.8			
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	300.0			
5	C.O.D.	mg/l.	APHA 5220 B	944.0			
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	4.4			
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	22.4			
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	38.6			
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2232.0			



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Verified by :
Technical Manager

Shreyasee Prasad
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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6144	Dt: 16.02.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022		
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample		Treated Effluent sample			
[c] Sample Collected by		SHIVA TEST HOUSE on 08.02.23			
[d] Sampling Location		Collected from Outlet of ETP			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	24 Humidity (%) 67		
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)			
[h] Sample Quantity		2 Litres			
[i] Sample Code		E-6144			
[j] Sample Condition on Receipt		Fit for Analysis			
[k] Items required to be tested		As per contract			
[l] Whether any specific Method of Test has been suggested by the customer		No			
[m] Date of receiving the sample in Laboratory		09.02.23			
[n] Analysis Start Date / Analysis Completion Date		09.02.23 / 12.02.23			
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	pH	---	IS 3025 (Part-11)	5.5 to 8.5	7.37
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	41.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00	1.1
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	100.00	18.0
5	C.O.D.	mg/l.	APHA 5220 B	Not Specified	112.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	Not Specified	0.85
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	Not Specified	11.8
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	Not Specified	18.48
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00	512.0



SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
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Verified by :
Technical Manager

Shreyasee Prasad

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Shreyasee Prasad
Date: 2023.02.21
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Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6145		Dt: 16.02.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a]	Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454			
[b]	Details of Sample			Treated Effluent sample			
[c]	Sample Collected by			SHIVA TEST HOUSE on 08.02.23			
[d]	Sampling Location			From Aeration Tank			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	24	Humidity (%)	67
[g]	No. & Type of Container			Plastic Bottle			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			E-6145			
[j]	Sample Condition on Receipt			Fit for Analysis			
[k]	Items required to be tested			As per contract			
[l]	Whether any specific Method of Test has been suggested by the party			No			
[m]	Date of receiving the sample in Laboratory			09.02.23			
[n]	Analysis Start Date / Analysis Completion Date			09.02.23 / 12.02.23			
Sl. No.	Parameters	Unit	Method of Test			Result	
1.	Mixed Liquor Suspended Solids (MLSS)	mg/l	IS 3025 (Part-24)			2540.0	
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)					2320.0	



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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6146	Dt: 16.02.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022		
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample		Lagoon Sample			
[c] Sample Collected by		SHIVA TEST HOUSE on 08.02.23			
[d] Sampling Location		Collected from Pond Water			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	24 Humidity (%) 67		
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)			
[h] Sample Quantity		2 Litres			
[i] Sample Code		E-6146			
[j] Sample Condition on Receipt		Fit for Analysis			
[k] Items required to be tested		As per contract			
[l] Whether any specific Method of Test has been suggested by the customer		No			
[m] Date of receiving the sample in Laboratory		09.02.23			
[n] Analysis Start Date / Analysis Completion Date		09.02.23 / 12.02.23			
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	pH	---	IS 3025 (Part-11)	5.5 to 8.5	7.25
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	62.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00	1.4
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	100.00	26.0
5	C.O.D.	mg/l.	APHA 5220 B	Not Specified	112.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	Not Specified	1.3
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	Not Specified	9.0
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	Not Specified	12.9
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00	412.0



SHIBESHWAR PRASAD
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Date: 2023.02.21 13:20:36 +05'30'

Verified by :
Technical Manager

Shreyasee Prasad
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Date: 2023.02.21 13:32:07 +05'30'
Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6147	Dt: 16.02.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022	
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454		
[b] Details of Sample		Effluent Sample		
[c] Sample Collected by		SHIVA TEST HOUSE on 08.02.23		
[d] Sampling Location		Collected from Cooling Tower Over Flow		
[e] Method of Sampling		IS 3025, APHA		
[f] Sampling Environmental Condition		Temp. (°C)	24 Humidity (%) 67	
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)		
[h] Sample Quantity		2 Litres		
[i] Sample Code		E-6147		
[j] Sample Condition on Receipt		Fit for Analysis		
[k] Items required to be tested		As per contract		
[l] Whether any specific Method of Test has been suggested by the customer		No		
[m] Date of receiving the sample in Laboratory		09.02.23		
[n] Analysis Start Date / Analysis Completion Date		09.02.23 / 12.02.23		
S. N.	Parameters	Unit	Method of Test	Result
1	pH	---	IS 3025 (Part-11)	6.58
2	Suspended Solids	mg/l.	IS 3025(Part-17)	26.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	0.8
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	8.0
5	C.O.D.	mg/l.	APHA 5220 B	64.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	0.91
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	7.3
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	11.2
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	508.0
10	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	60.5
11	Fluoride as F	mg/l.	APHA 4500 (F D)	0.64

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2023.02.21
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Verified by :
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6148-6151		Dt: 16.02.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022		
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454				
[b] Details of Sample				Monitoring of Ambient Air Quality				
[c] Sample Collected by				SHIVA TEST HOUSE on 08.02.23				
[d] Sampling Location				Premises of Sugar Mill				
[e] Method of Sampling				IS 5182 (Part - 14)				
[f] Sampling Environmental Condition				Temp. (°C)		24	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)				Filter Paper; Glass Impinger				
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4				
[i] Sample Quantity				30 ml x 24 (for each NO ₂ , SO ₂)				
[j] Sample Condition on Receipt				Fit for Analysis				
[k] Items required to be tested				As per contract				
[l] Whether any specific Method of Test has been suggested by the customer				No				
[m] Date of receiving the sample in Laboratory				09.02.23				
[n] Analysis Start Date / Analysis Completion Date				09.02.23 / 11.02.23				
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result				
				Near Main Gate (SC_A-6148)	Near Guest House (SC_A-6149)	Near Cooling Tower (SC_A-6150)	Near Store (SC_A-6151)	
Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	88.0	76.1	84.0	76.6	
				77.9	65.4	69.6	65.1	
				71.4	88.0	76.4	84.6	
Particulate Matter (PM _{2.5})	µg / m ³	CPCB GMAAP	60	48.2	48.0	43.0	46.6	
				35.5	34.1	34.2	35.3	
				43.1	43.0	40.5	42.8	
Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	16.6	16.8	18.1	22.7	
				14.0	16.0	11.3	17.1	
				8.8	9.4	9.1	9.9	
				10.7	12.6	10.1	8.9	
				12.7	13.6	12.1	12.8	
Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	17.6	17.8	17.1	18.8	
				41.1	41.3	38.3	43.0	
				38.0	37.8	35.6	33.6	
				29.9	32.0	32.1	30.2	
				25.9	32.8	26.0	25.5	
Average Value				32.5	37.5	28.7	39.6	
				39.2	42.7	41.0	44.3	
PM ₁₀	µg / m ³			79.1	76.5	76.7	75.4	
PM _{2.5}	µg / m ³			42.2	41.7	39.2	41.6	
SO ₂	µg / m ³			13.4	14.4	13.0	15.0	
NO ₂	µg / m ³			34.4	37.3	33.6	36.0	

SHIBESHWAR PRASAD

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Date: 2023.02.21
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Verified by :
Technical Manager



Shreyasee Prasad

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Quality Manager

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SHIVA TEST HOUSE

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TC-10582

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TEST REPORT

Ref. No. STH/TR/22-23/6152	Dt: 16.02.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		SHIVA TEST HOUSE on 08.02.23	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	24 Humidity (%) 67
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		VSS IPLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-6152	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the party		No	
[n] Date of receiving the sample		09.02.23	
[o] Analysis Start Date / Analysis Completion Date		09.02.23 / 11.02.23	

Parameters	Unit	Method of Test	Results
1. Type of Fuel	---		Bagasse
2. Stack Connected to	---		Dumping Grate Boiler No. 9 having Steam generation capacity 32.0 T / hr.
3. Stack No.	---		I
4. Height of Stack above ground level (as reported)	Meter		30.00 M.
5. Dia of Stack at Top (as reported)	Meter		1.55 M.
6. Material of Constriction	---		ID Fan
7. Material of Construction	---		M.S.
8. Ambient Temperature	°C		24.0
9. Flue Gas Temperature	°C		104.0
10. Velocity	m/sec.		IS 11255 (Part-3)
11. Volumetric Flow Rate	NM ³ /hr.		42745.9
12. Sampling Point	Meter		11.00 M.
			Limit as per E (P) Rules Schedule I
13. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	500.00 mg / NM ³ (12% CO ₂)
14. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	IS 11255 (Part-7)	Not Specified

SHIBESHWAR PRASAD

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Date: 2023.02.21 13:21:20 +05'30'

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Technical Manager



Shreyasee Prasad

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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6153	Dt: 16.02.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454	
[b] Details of Sample		<i>Monitoring of Stack Emission</i>	
[c] Sample Collected by		SHIVA TEST HOUSE on 08.02.23	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	24 Humidity (%) 67
[g] No. & Type of Container		<i>Thimble & Glass Impinger</i>	
[h] Instrument ID		VSS IPLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-6153	
[k] Sample Condition on Receipt		<i>Fit for Analysis</i>	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the party		No	
[n] Date of receiving the sample		09.02.23	
[o] Analysis Start Date / Analysis Completion Date		09.02.23 / 11.02.23	
Parameters	Unit	Method of Test	Results
1. Type of Fuel	---	IS 11255 (Part-3)	Bagasse
2. Stack Connected to	---		Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.
3. Stack No.	---		II
4. Height of Stack above ground level (as reported)	Meter		40.00 M.
5. Dia of Stack at Top (as reported)	Meter		2.55 M.
6. Material of Constriction	---		ID Fan
7. Material of Construction	---		M.S.
8. Ambient Temperature	°C		24.0
9. Flue Gas Temperature	°C		112.0
10. Velocity	m/sec.		8.2
11. Volumetric Flow Rate	NM ³ /hr.		116110.5
12. Sampling Point	Meter		19.00 M.
			Limit as per E (P) Rules Schedule I
13. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	500.00 mg / NM ³ (12% CO ₂)
14. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	IS 11255 (Part-7)	Not Specified

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2023.02.21
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Verified by :
Technical Manager



Shreyasee Prasad

Digitally signed by
Shreyasee Prasad
Date: 2023.02.21
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Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6154	Dt: 16.02.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	SHIVA TEST HOUSE on 08.02.23		
[d] Sampling Location	Premises of Sugar Mill		
[e] Method of Sampling	IS 5182 (Part - 14)		
[f] Sampling Environmental Condition	Temp. (°C)	24	Humidity (%) 67
[g] No. & Type of Container	Thimble & Glass Impinger		
[h] Instrument ID	VSS IPLS		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-6154		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the party	No		
[n] Date of receiving the sample	09.02.23		
[o] Analysis Start Date / Analysis Completion Date	09.02.23 / 11.02.23		

Parameters	Unit	Method of Test	Results	
1. Type of Fuel	----		Bagasse	
2. Stack Connected to	----		Dumping Grate Type Boiler No. 11 having Steam generation capacity 40.0 T / hr.	
3. Stack No.	----		III	
4. Height of Stack above ground level (as reported)	Meter		40.00 M.	
5. Dia of Stack at Top (as reported)	Meter		2.50 M.	
6. Material of Constriction	----		ID Fan	
7. Material of Construction	----		RCC	
8. Ambient Temperature	°C		24.0	
9. Flue Gas Temperature	°C		115.0	
10. Velocity	m/sec.		IS 11255 (Part-3)	7.8
11. Volumetric Flow Rate	NM³/hr.		106435.1	
12. Sampling Point	Meter		21.00 M.	
			Limit as per E (P) Rules Schedule I	Concentration
13. Particulate Matter (P.M.)	mg / NM³	500.00 mg / NM³ (12% CO₂)	500.00 mg / NM³ (12% CO₂)	42.7
14. Sulphur Dioxide (SO₂)	mg / NM³	Not Specified	Not Specified	13.8
15. Oxides of Nitrogen (NO₂)	mg / NM³	Not Specified	Not Specified	41.6

SHIBESHWAR PRASAD

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Date: 2023.02.21
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Verified by :
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2023.02.21
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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/6155		Dt: 16.02.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhauria W.Champaran – 845 454				
[b] Sampling Environmental Condition			Temp. (°C)	24	Humidity (%)	67	
[c] Details of Sample			Monitoring of Ambient Noise Level within factory periphery				
[d] Monitored by			SHIVA TEST HOUSE on 08.02.23				
[e] Items required to be tested			As per request				
[f] Whether any specific Method of Test has been suggested by the party			No				
S. N	Monitoring Location	Unit	Time Weighted Average (TWA) of Noise Level				
			Day time (6:00 am to 10:00 pm)	Night time (10:00 pm to 6:00 am)			
1.	Near Main Gate	dB(A)	62.9	50.2			
2.	Near Guest house	dB(A)	57.3	47.6			
3.	Near Cooling Tower	dB(A)	67.4	52.5			
4.	Near ETP	dB(A)	64.8	53.2			
5.	Near Sugar Godown	dB(A)	61.4	51.7			
N.B.: The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.							



SHIBESHWAR PRASAD

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Verified by :
Technical Manager

Shreyasee Prasad

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Shreyasee Prasad
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Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/5334(MCB)	Dt: 19.01.2023	Your Work Order No. WP/215/22	Dt :08.08.2022		
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W. Champaran – 845 454				
[b] Details of Sample	Borewell Water Sample				
[c] Sample Collected by	SHIVA TEST HOUSE on 10.01.23				
[d] Sampling Location	Collected from Borewell Near Guest House				
[e] Method of Sampling	IS 1622				
[f] Sampling Environmental Condition	Temp (°C)	13	Humidity (%) 75		
[g] No. & Type of Container	One Sterilized Glass Bottle				
[h] Sample Quantity	250 ml				
[i] Sample Code	BW-5334				
[j] Sample Condition on Receipt	Fit for analysis				
[k] Items required to be tested	As per contract				
[l] Whether any specific Method of Test has been suggested by the customer	No.				
[m] Date of receiving the sample in Laboratory	11.01.23				
[n] Analysis Start Date / Analysis Completion Date	11.01.23 / 12.01.23				
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012	Results
1	Total Coliform	/ 100 ml	IS 1622:1981	Shall not be detectable in 100 ml	Not Detected / 100 ml



Vishal Sharma

Authorized Signatory
Section In-Charge (Microbiology)

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TEST REPORT

Ref. No. STH/TR/22-23/5335	Dt: 19.01.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454	
[b] Details of Sample		Surface Water Sample	
[c] Sample Collected by		SHIVA TEST HOUSE on 10.01.23	
[d] Sampling Location		Collected from Upstream of River Kohra	
[e] Method of Sampling		IS 3025, APHA	
[f] Sampling Environmental Condition		Temp. (°C)	13 Humidity (%) 75
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)	
[h] Sample Quantity		2 Litres	
[i] Sample Code		SW-5335	
[j] Sample Condition on Receipt		Fit for Analysis	
[k] Items required to be tested		As per contract.	
[l] Whether any specific Method of Test has been suggested by the customer		No	
[m] Date of receiving the sample in Laboratory		11.01.23	
[n] Analysis Start Date / Analysis Completion Date		11.01.23 / 14.01.23	

S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result
				For Class 'A'	For Class 'C'	
1.	pH	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.91
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	65.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500	1500	296.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	1.7
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	24.0
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	14.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	7.8

Class 'A': Drinking water source without conventional treatment but after disinfection

Class 'C': Drinking water source with conventional treatment followed by disinfection.

SHIBESHWAR PRASAD

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Date: 2023.01.19
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Verified by :
Technical Manager



Shreyasee Prasad

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Date: 2023.01.19
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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/5336		Dt: 19.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454			
[b] Details of Sample				Surface Water Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 10.01.23			
[d] Sampling Location				Collected from Downstream of River Kohra			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)		13	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				SW-5336			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract.			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				11.01.23			
[n] Analysis Start Date / Analysis Completion Date				11.01.23 / 14.01.23			
S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result	
				For Class 'A'	For Class 'C'		
1.	pH	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.81	
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	74.0	
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500.0	1500.0	302.0	
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.0	
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	28.0	
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	17.0	
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	7.6	
Class 'A': Drinking water source without conventional treatment but after disinfection							
Class 'C': Drinking water source with conventional treatment followed by disinfection.							

SHIBESHWAR PRASAD

Digitally signed by
SHIBESHWAR PRASAD
Date: 2023.01.19
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Verified by :
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
Date: 2023.01.19
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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/5337		Dt: 19.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454			
[b] Details of Sample				Untreated Effluent Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 10.01.23			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	13	Humidity (%)	75
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-5337			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per Contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample				11.01.23			
[n] Analysis Start Date / Analysis Completion Date				11.01.23 / 14.01.23			
S. N.	Parameters	Unit	Method of Test	Result			
1	pH	---	IS 3025 (Part-11)	8.72			
2	Suspended Solids	mg/l.	IS 3025(Part-17)	284.0			
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	4.5			
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	280.0			
5	C.O.D.	mg/l.	APHA 5220 B	928.0			
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	4.2			
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	22.4			
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	38.6			
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2184.0			

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Shreyasee Prasad

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Quality Manager

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SHIVA TEST HOUSE

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TC-10582

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TEST REPORT

Ref. No. STH/TR/22-23/5338		Dt: 19.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Treated Effluent sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 10.01.23			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	13	Humidity (%)	75
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-5338			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				11.01.23			
[n] Analysis Start Date / Analysis Completion Date				11.01.23 / 14.01.23			
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result		
1	pH	---	IS 3025 (Part-11)	5.5 to 8.5	7.42		
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	42.0		
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00	1.2		
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	100.00	20.0		
5	C.O.D.	mg/l.	APHA 5220 B	Not Specified	120.0		
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	Not Specified	0.82		
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	Not Specified	11.8		
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	Not Specified	18.48		
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00	684.0		

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TEST REPORT

Ref. No. STH/TR/22-23/5339		Dt: 19.01.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454			
[b] Details of Sample				Treated Effluent sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 10.01.23			
[d] Sampling Location				From Aeration Tank			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	13	Humidity (%)	75
[g] No. & Type of Container				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-5339			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the party				No			
[m] Date of receiving the sample in Laboratory				11.01.23			
[n] Analysis Start Date / Analysis Completion Date				11.01.23 / 13.01.23			
Sl. No.	Parameters			Unit	Method of Test		Result
1.	Mixed Liquor Suspended Solids (MLSS)			mg/l	IS 3025 (Part-24)		2520.0
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)						2240.0

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TEST REPORT

Ref. No. STH/TR/22-23/5340	Dt: 19.01.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022		
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample		Lagoon Sample			
[c] Sample Collected by		SHIVA TEST HOUSE on 10.01.23			
[d] Sampling Location		Collected from Pond Water			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	13 Humidity (%) 75		
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)			
[h] Sample Quantity		2 Litres			
[i] Sample Code		E-5340			
[j] Sample Condition on Receipt		Fit for Analysis			
[k] Items required to be tested		As per contract			
[l] Whether any specific Method of Test has been suggested by the customer		No			
[m] Date of receiving the sample in Laboratory		11.01.23			
[n] Analysis Start Date / Analysis Completion Date		11.01.23 / 14.01.23			
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	pH	---	IS 3025 (Part-11)	5.5 to 8.5	7.17
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	71.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00	1.1
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	100.00	22.0
5	C.O.D.	mg/l.	APHA 5220 B	Not Specified	128.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	Not Specified	1.1
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	Not Specified	10.1
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	Not Specified	14.0
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00	396.0

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Technical Manager



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TEST REPORT

Ref. No. STH/TR/22-23/5341-5344		Dt: 19.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				SHIVA TEST HOUSE on 10.01.23			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)		13	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)				Filter Paper; Glass Impinger			
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4			
[i] Sample Quantity				30 ml x 24 (for each NO ₂ , SO ₂)			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				11.01.23			
[n] Analysis Start Date / Analysis Completion Date				11.01.23 / 13.01.23			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Main Gate (SC_A-5341)	Near Guest House (SC_A-5342)	Near Cooling Tower (SC_A-5343)	Near Store (SC_A-5344)
Particulate Matter (PM ₁₀)	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-23)	100	87.4	80.3	86.2	83.4
				72.2	65.2	65.8	65.2
				78.3	72.8	79.9	77.6
Particulate Matter (PM _{2.5})	$\mu\text{g} / \text{m}^3$	CPCB GMAAP	60	47.9	42.8	43.6	41.0
				34.4	34.0	33.6	32.3
				39.3	37.8	39.9	38.6
Sulphur Dioxide as SO ₂	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-2)	80	15.6	23.8	13.8	20.8
				10.6	15.2	12.1	12.8
				7.3	15.9	11.8	11.5
				12.8	10.1	13.1	7.5
				10.4	14.9	14.8	15.6
Nitrogen Dioxide as NO ₂	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-6)	80	12.8	9.1	8.1	14.9
				39.0	29.7	35.5	39.0
				38.3	31.7	37.0	40.5
				27.6	30.4	28.1	29.0
				23.9	26.2	25.3	33.3
Average Value				29.7	31.7	29.5	29.7
				32.6	35.1	24.0	31.1
PM ₁₀	$\mu\text{g} / \text{m}^3$			79.3	72.8	77.3	75.4
PM _{2.5}	$\mu\text{g} / \text{m}^3$			40.5	38.2	39.1	37.3
SO ₂	$\mu\text{g} / \text{m}^3$			11.6	14.8	12.3	13.8
NO ₂	$\mu\text{g} / \text{m}^3$			31.8	30.8	29.9	33.8

SHIBESHWAR PRASAD

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TEST REPORT

Ref. No. STH/TR/22-23/5345	Dt: 19.01.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454	
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	SHIVA TEST HOUSE on 10.01.23		
[d] Sampling Location	Premises of Sugar Mill		
[e] Method of Sampling	IS 5182 (Part - 14)		
[f] Sampling Environmental Condition	Temp. (°C)	13	Humidity (%) 75
[g] No. & Type of Container	Thimble & Glass Impinger		
[h] Instrument ID	VSS 1PLS		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-5345		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the party	No		
[n] Date of receiving the sample	11.01.23		
[o] Analysis Start Date / Analysis Completion Date	11.01.23 / 13.01.23		

Parameters	Unit	Method of Test	Results	
1. Type of Fuel	---		Bagasse	
2. Stack Connected to	---		Dumping Grate Boiler No. 9 having Steam generation capacity 32.0 T / hr.	
3. Stack No.	---		I	
4. Height of Stack above ground level (as reported)	Meter		30.00 M.	
5. Dia of Stack at Top (as reported)	Meter		1.55 M.	
6. Material of Constriction	---		ID Fan	
7. Material of Construction	---		M.S.	
8. Ambient Temperature	°C		18.0	
9. Flue Gas Temperature	°C		132.0	
10. Velocity	m/sec.		6.8	
11. Volumetric Flow Rate	NM ³ /hr.		33852.4	
12. Sampling Point	Meter		11.00 M.	
			Limit as per E (P) Rules Schedule I	Concentration (mg / NM ³)
13. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	500.00 mg / NM ³ (12% CO ₂)	23.3
14. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified	12.7
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	IS 11255 (Part-7)	Not Specified	41.8

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TEST REPORT

Ref. No. STH/TR/22-23/5346		Dt: 19.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 10.01.23			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	13	Humidity (%)	75
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS IPLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-4346			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				11.01.23			
[o] Analysis Start Date / Analysis Completion Date				11.01.23 / 13.01.23			
Parameters			Unit	Method of Test		Results	
1. Type of Fuel			----	IS 11255 (Part-3)		Bagasse	
2. Stack Connected to			----			Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.	
3. Stack No.			----			II	
4. Height of Stack above ground level (as reported)			Meter			40.00 M.	
5. Dia of Stack at Top (as reported)			Meter			2.55 M.	
6. Material of Constriction			----			ID Fan	
7. Material of Construction			----			M.S.	
8. Ambient Temperature			°C			18.0	
9. Flue Gas Temperature			°C			134.0	
10. Velocity			m/sec.			6.9	
11. Volumetric Flow Rate			NM ³ /hr.			19.00 M.	
12. Sampling Point			Meter				
						Limit as per E (P) Rules Schedule I	Concentration (mg / NM ³)
13. Particulate Matter (P.M.)			mg / NM ³	IS 11255 (Part-1)	500.00 mg / NM ³ (12% CO ₂)	44.3	
14. Sulphur Dioxide (SO ₂)			mg / NM ³	IS 11255 (Part-2)	Not Specified	16.7	
15. Oxides of Nitrogen (NO ₂)			mg / NM ³	IS 11255 (Part-7)	Not Specified	41.8	

SHIBESHWAR PRASAD

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TEST REPORT

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[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 10.01.23			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	13	Humidity (%)	75
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS 1PLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-5347			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				11.01.23			
[o] Analysis Start Date / Analysis Completion Date				11.01.23 / 13.01.23			
Parameters		Unit	Method of Test	Results			
1. Type of Fuel	----			Bagasse			
2. Stack Connected to	----			Dumping Grate Type Boiler No. 11 having Steam generation capacity 40.0 T / hr.			
3. Stack No.	----			III			
4. Height of Stack above ground level (as reported)	Meter			40.00 M.			
5. Dia of Stack at Top (as reported)	Meter			2.50 M.			
6. Material of Constriction	----			ID Fan			
7. Material of Construction	----			M.S.			
8. Ambient Temperature	°C			18.0			
9. Flue Gas Temperature	°C			138.0			
10. Velocity	m/sec.	IS 11255 (Part-3)		7.1			
11. Volumetric Flow Rate	NM ³ /hr.			89955.7			
12. Sampling Point	Meter			21.00 M.			
				Limit as per E (P) Rules Schedule I		Concentration	
13. Particulate Matter (P.M.)	mg / NM ³	500.00 mg / NM ³ (12% CO ₂)		500.00 mg / NM ³ (12% CO ₂)		44.4	
14. Sulphur Dioxide (SO ₂)	mg / NM ³	Not Specified		Not Specified		16.9	
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	Not Specified		Not Specified		38.0	

SHIBESHWAR PRASAD

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Date: 2023.01.19 12:19:26 +05'30'

Verified by :
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2023.01.19 12:22:33 +05'30'
Authorized Signatory
Quality Manager

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SHIVA TEST HOUSE

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TC-10582

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TEST REPORT

Ref. No. STH/TR/22-23/5348		Dt: 19.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a]	Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b]	Sampling Environmental Condition			Temp. (°C)	13	Humidity (%)	75
[c]	Details of Sample			Monitoring of Ambient Noise Level within factory periphery			
[d]	Monitored by			SHIVA TEST HOUSE on 10.01.23			
[e]	Items required to be tested			As per request			
[f]	Whether any specific Method of Test has been suggested by the party			No			
S. N	Monitoring Location	Unit	Time Weighted Average (TWA) of Noise Level				
			Day time (6:00 am to 10:00 pm)	Night time (10:00 pm to 6:00 am)			
1.	Near Main Gate	dB(A)	64.8	52.8			
2.	Near Guest house	dB(A)	58.8	48.6			
3.	Near Cooling Tower	dB(A)	63.7	54.2			
4.	Near ETP	dB(A)	64.2	54.0			
5.	Near Sugar Godown	dB(A)	68.8	55.3			
N.B.: The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.							

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
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Verified by :
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
Date: 2023.01.19
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Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/IR/22-23/574	Dt: 19.01.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454		
[b] Details of Sample	Borewell Water Sample		
[c] Sample Collected by	SHIVA TEST HOUSE on 10.01.23		
[d] Sampling Location	<i>Collected from Borewell Near Guest House</i>		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	13	Humidity (%) 75
[g] No. & Type of Container	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Sample Code	BW-5334		
[j] Sample Condition on Receipt	Fit for Analysis		
[k] Items required to be tested	As per Contract		
[l] Date of receiving the sample	11.01.23		
[m] Analysis Start Date / Analysis Completion Date	11.01.23 / 13.01.23		

S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results
				Acceptable Limit	Permissible Limit in the absence of alternative source	
1	Colour	Hazen	IS 3025 (Part-4)	5	15	<5.0
2	Odour	--	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable
3	Taste	--	IS 3025 (Part-7)	Agreeable	Agreeable	Agreeable
4	pH	--	IS 3025 (Part-11)	6.5 to 8.5	No relaxation	7.54
5	Turbidity	NTU	IS 3025 (Part-10)	1.0	5.0	1.0
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	276.0
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	194.0
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	44.1
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	20.4
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.25
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1	<0.01
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.0	220.0
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	11.0
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	17.1
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	1.41
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.29

Distillery

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2023.01.19
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Verified by :
Technical Manager

**Shreyasee Prasad**

Digitally signed by
Shreyasee Prasad
Date: 2023.01.19
12:20:02 +05'30'

Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/4825		Dt: 07.01.2023		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a]	Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b]	Details of Sample			Borewell Water Sample			
[c]	Sample Collected by			SHIVA TEST HOUSE on 21.12.22			
[d]	Sampling Location			Collected from Borewell Near ETP			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	24	Humidity (%)	72
[g]	No. & Type of Container			Plastic Bottle (02)			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			BW-4825			
[j]	Sample Condition on Receipt			Fit for Analysis			
[k]	Items required to be tested			As per Contract			
[l]	Date of receiving the sample			22.12.22			
[m]	Analysis Start Date / Analysis Completion Date			22.12.22 / 24.12.22			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results	
				Acceptable Limit	Permissible Limit in the absence of alternative source		
1	Colour	Hazen	IS 3025 (Part-4)	5	15	<5.0	
2	Odour	--	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable	
3	Taste	--	IS 3025 (Part-7))	Agreeable	Agreeable	Agreeable	
4	pH	--	IS 3025 (Part-11)	6.5 to 8.5	No relaxation	7.45	
5	Turbidity	NTU	IS 3025 (Part-10)	1.0	5.0	1.1	
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	268.0	
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	186.0	
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	43.3	
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	19.0	
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.24	
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1	<0.01	
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.0	216.0	
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	12.0	
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	16.2	
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	1.36	
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.27	

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2023.01.09
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Verified by :
Technical Manager



Shreyasee Prasad

Digitally signed by
Shreyasee Prasad
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17:16:21 +05'30'

Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/4825(MCB)	Dt: 07.01.2023	Your Work Order No. WP/215/22	Dt : 08.08.2022		
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454				
[b] Details of Sample	Borewell Water Sample				
[c] Sample Collected by	Shiva Test House on 21.12.22				
[d] Sampling Location	Collected from Borewell Near ETP				
[e] Method of Sampling	IS 1622				
[f] Sampling Environmental Condition	Temp (°C)	24	Humidity (%) 72		
[g] No. & Type of Container	One Sterilized Glass Bottle				
[h] Sample Quantity	250 ml				
[i] Sample Code	BW-4825				
[j] Sample Condition on Receipt	Fit for analysis				
[k] Items required to be tested	As per contract				
[l] Whether any specific Method of Test has been suggested by the customer	No				
[m] Date of receiving the sample in Laboratory	22.12.22				
[n] Analysis Start Date / Analysis Completion Date	22.12.22 / 23.12.22				
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012	Results
1	Total Coliform	/ 100 ml	IS 1622:1981	Shall not be detectable in 100 ml.	Not Detected / 100 ml



Vishal Sharma
Authorized Signatory
Section In-Charge (Microbiology)

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TEST REPORT

Ref. No. STH/TR/22-23/4826		Dt: 07.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Surface Water Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location				Collected from Upstream of River Kohra			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C) 24 Humidity (%) 72			
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				SW-4826			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract.			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				22.12.22			
[n] Analysis Start Date / Analysis Completion Date				22.12.22 / 25.12.22			
S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result	
				For Class 'A'	For Class 'C'		
1.	pH	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.71	
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	71.0	
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500	1500	285.0	
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	1.5	
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	20.0	
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	13.0	
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	7.5	
Class 'A': Drinking water source without conventional treatment but after disinfection							
Class 'C': Drinking water source with conventional treatment followed by disinfection.							

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2023.01.09
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Verified by :
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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TEST REPORT

Ref. No. <i>STH/TR/22-23/4827</i>		Dt: <i>07.01.2023</i>		Your Work Order No. <i>WP/215/22</i>		Dt: <i>08.08.2022</i>	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Surface Water Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location				Collected from Downstream of River Kohra			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	24	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				SW-4827			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract.			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				22.12.22			
[n] Analysis Start Date / Analysis Completion Date				22.12.22 / 25.12.22			
S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result	
				For Class 'A'	For Class 'C'		
1.	pH	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.65	
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	81.0	
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500.0	1500.0	294.0	
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	1.9	
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	28.0	
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	16.0	
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	7.3	
Class 'A': Drinking water source without conventional treatment but after disinfection							
Class 'C': Drinking water source with conventional treatment followed by disinfection.							

SHIBESHWAR PRASAD

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Date: 2023.01.09
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Verified by :
Technical Manager



Shreyasee Prasad

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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/4828	Dt: 07.01.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022	
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample	Untreated Effluent Sample			
[c] Sample Collected by	SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location	Collected from Inlet of ETP			
[e] Method of Sampling	IS 3025, APHA			
[f] Sampling Environmental Condition	Temp. (°C)	24	Humidity (%) 72	
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle			
[h] Sample Quantity	2 Litres			
[i] Sample Code	E-4828			
[j] Sample Condition on Receipt	Fit for Analysis			
[k] Items required to be tested	As per Contract			
[l] Whether any specific Method of Test has been suggested by the customer	No			
[m] Date of receiving the sample	22.12.22			
[n] Analysis Start Date / Analysis Completion Date	22.12.22 / 25.12.22			
S. N.	Parameters	Unit	Method of Test	Result
1	pH	----	IS 3025 (Part-11)	8.57
2	Suspended Solids	mg/l.	IS 3025(Part-17)	310.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	5.3
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	320.0
5	C.O.D.	mg/l.	APHA 5220 B	1056.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	4.3
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	25.8
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	47.0
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2232.0

SHIBESHWAR PRASAD
 Digitally signed by SHIBESHWAR PRASAD
 Date: 2023.01.09 17:14:10 +05'30'

Verified by :
 Technical Manager



Shreyasee Prasad
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 Date: 2023.01.09 17:17:01 +05'30'
 Authorized Signatory
 Quality Manager

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SHIVA TEST HOUSE

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TC-10582

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TEST REPORT

Ref. No. STH/TR/22-23/4829		Dt: 07.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Treated Effluent sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	24	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-4829			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				22.12.22			
[n] Analysis Start Date / Analysis Completion Date				22.12.22 / 25.12.22			
S. N.	Parameters	Unit	Method of Test	Limit as per (P) Rules Schedule VI	E	Result	
1	pH	---	IS 3025 (Part-11)	5.5 to 8.5		7.54	
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0		52.0	
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00		1.7	
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	100.00		22.0	
5	C.O.D.	mg/l.	APHA 5220 B	Not Specified		112.0	
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	Not Specified		1.22	
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	Not Specified		13.4	
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	Not Specified		21.8	
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00		726.0	

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TEST REPORT

Ref. No. STH/TR/22-23/4830	Dt: 07.01.2023	Your Work Order No. WP/215/22	Dt: 08.08.2022	
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample	Treated Effluent sample			
[c] Sample Collected by	SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location	From Aeration Tank			
[e] Method of Sampling	IS 3025, APHA			
[f] Sampling Environmental Condition	Temp. (°C)	24	Humidity (%)	64
[g] No. & Type of Container	Plastic Bottle			
[h] Sample Quantity	2 Litres			
[i] Sample Code	E-4830			
[j] Sample Condition on Receipt	Fit for Analysis			
[k] Items required to be tested	As per contract			
[l] Whether any specific Method of Test has been suggested by the party	No			
[m] Date of receiving the sample in Laboratory	22.12.22			
[n] Analysis Start Date / Analysis Completion Date	22.12.22 / 24.12.22			
Sl. No.	Parameters	Unit	Method of Test	Result
1.	Mixed Liquor Suspended Solids (MLSS)	mg/l	IS 3025 (Part-24)	2440.0
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)			2150.0

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TEST REPORT

Ref. No. STH/TR/22-23/4831		Dt: 07.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Lagoon Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location				Collected from Pond Water			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	24	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-4831			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				22.12.22			
[n] Analysis Start Date / Analysis Completion Date				22.12.22 / 25.12.22			
S. N.	Parameters	Unit	Method of Test	Limit as per Rules Schedule VI	E (P)	Result	
1	pH	---	IS 3025 (Part-11)	5.5 to 8.5		7.31	
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0		68.0	
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00		1.2	
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	100.00		24.0	
5	C.O.D.	mg/l.	APHA 5220 B	Not Specified		132.0	
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	Not Specified		1.08	
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	Not Specified		9.5	
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	Not Specified		12.9	
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00		384.0	

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TEST REPORT

Ref. No. STH/TR/22-23/4832-4835		Dt: 07.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive-Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	25	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)				Filter Paper; Glass Impinger			
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4			
[i] Sample Quantity				30 ml x 24 (for each NO ₂ , SO ₂)			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				22.12.22			
[n] Analysis Start Date / Analysis Completion Date				22.12.22 / 24.12.22			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Main Gate (SC_A-4832)	Near Guest House (SC_A-4833)	Near Store (SC_A-4834)	Near Cooling Tower (SC_A-4835)
Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	82.0	80.8	86.6	82.9
				69.8	66.0	66.0	64.9
				77.7	73.3	79.5	77.3
Particulate Matter (PM _{2.5})	µg / m ³	CPCB GMAAP	60	46.7	40.3	44.9	43.5
				34.4	31.5	29.9	34.8
				39.3	37.8	38.6	39.8
Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	17.7	25.8	14.8	15.6
				11.7	11.2	9.1	10.6
				9.4	18.9	13.8	15.6
				9.6	8.1	10.1	8.5
				13.5	12.9	7.9	19.8
Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	14.9	8.1	9.1	11.7
				41.1	31.0	39.5	41.8
				39.1	29.6	41.1	38.3
				26.2	30.4	26.8	31.2
				25.3	41.3	26.7	31.1
Average Value	µg / m ³			34.0	34.5	24.0	33.3
PM ₁₀	µg / m ³			76.5	73.4	77.4	75.1
PM _{2.5}	µg / m ³			40.1	36.5	37.8	39.4
SO ₂	µg / m ³			12.8	14.2	10.8	13.7
NO ₂	µg / m ³			32.4	33.3	31.2	34.0

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TEST REPORT

Ref. No. STH/TR/22-23/4836		Dt: 07.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	24	Humidity (%)	72
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS IPLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-4836			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				22.12.22			
[o] Analysis Start Date / Analysis Completion Date				22.12.22 / 24.12.22			
Parameters		Unit	Method of Test		Results		
1. Type of Fuel		---			Bagasse		
2. Stack Connected to		---			Dumping Grate Boiler No. 9 having Steam generation capacity 32.0 T / hr.		
3. Stack No.		---			I		
4. Height of Stack above ground level (as reported)		Meter			30.00 M.		
5. Dia of Stack at Top (as reported)		Meter			1.55 M.		
6. Material of Constriction		---			ID Fan		
7. Material of Construction		---			M.S.		
8. Ambient Temperature		°C			24.0		
9. Flue Gas Temperature		°C			128.0		
10. Velocity		m/sec.	IS 11255 (Part-3)	7.6			
11. Volumetric Flow Rate		NM ³ /hr.			38371.5		
12. Sampling Point		Meter			11.00 M.		
					Limit as per E (P) Rules Schedule I	Concentration (mg / NM ³)	
13. Particulate Matter (P.M.)		mg / NM ³	IS 11255 (Part-1)	500.00 mg / NM ³ (12% CO ₂)		40.4	
14. Sulphur Dioxide (SO ₂)		mg / NM ³	IS 11255 (Part-2)	Not Specified		14.9	
15. Oxides of Nitrogen (NO ₂)		mg / NM ³	IS 11255 (Part-7)	Not Specified		36.3	

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TEST REPORT

Ref. No. STH/TR/22-23/4837		Dt: 07.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	24	Humidity (%)	72
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS IPLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-4837			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				22.12.22			
[o] Analysis Start Date / Analysis Completion Date				22.12.22 / 24.12.22			
Parameters		Unit	Method of Test		Results		
1. Type of Fuel		----			Bagasse		
2. Stack Connected to		----			Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.		
3. Stack No.		----			II		
4. Height of Stack above ground level (as reported)		Meter			40.00 M.		
5. Dia of Stack at Top (as reported)		Meter			2.55 M.		
6. Material of Constriction		----			ID Fan		
7. Material of Construction		----			M.S.		
8. Ambient Temperature		°C			24.0		
9. Flue Gas Temperature		°C			130.0		
10. Velocity		m/sec.			IS 11255 (Part-3)		7.8
11. Volumetric Flow Rate		NM³/hr.			105309.6		
12. Sampling Point		Meter			19.00 M.		
					Limit as per E (P) Rules Schedule I		Concentration (mg / NM³)
13. Particulate Matter (P.M.)		mg / NM³	IS 11255 (Part-1)		500.00 mg / NM³ (12% CO₂)		43.2
14. Sulphur Dioxide (SO₂)		mg / NM³	IS 11255 (Part-2)		Not Specified		15.8
15. Oxides of Nitrogen (NO₂)		mg / NM³	IS 11255 (Part-7)		Not Specified		37.8

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TEST REPORT

Ref. No. <i>STH/TR/22-23/4838</i>		Dt: <i>07.01.2023</i>		Your Work Order No. <i>WP/215/22</i>		Dt : <i>08.08.2022</i>	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 21.12.22			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	24	Humidity (%)	67
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS 1PLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-4838			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				22.12.22			
[o] Analysis Start Date / Analysis Completion Date				22.12.22 / 24.12.22			
Parameters		Unit	Method of Test		Results		
1. Type of Fuel		----	IS 11255 (Part-3)		Bagasse		
2. Stack Connected to		----			Dumping Grate Type Boiler No. 11 having Steam generation capacity 40.0 T / hr.		
3. Stack No.		----			III		
4. Height of Stack above ground level (as reported)		Meter			40.00 M.		
5. Dia of Stack at Top (as reported)		Meter			2.50 M.		
6. Material of Constriction		----			ID Fan		
7. Material of Construction		----			M.S.		
8. Ambient Temperature		°C			24.0		
9. Flue Gas Temperature		°C			133.0		
10. Velocity		m/sec.			7.9		
11. Volumetric Flow Rate		NM³/hr.			102459.8		
12. Sampling Point		Meter			21.00 M.		
					Limit as per E (P) Rules Schedule I	Concentration	
13. Particulate Matter (P.M.)		mg / NM³	500.00 mg / NM³ (12% CO₂)		500.00 mg / NM³ (12% CO₂)	43.7	
14. Sulphur Dioxide (SO₂)		mg / NM³	Not Specified		Not Specified	14.0	
15. Oxides of Nitrogen (NO₂)		mg / NM³	Not Specified		Not Specified	34.0	

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SHIVA TEST HOUSE

(Serving since 1988)



TC-10582

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TEST REPORT

Ref. No. STH/TR/22-23/4839		Dt: 07.01.2023		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454				
[b] Sampling Environmental Condition			Temp. (°C)	24	Humidity (%)	67	
[c] Details of Sample			Monitoring of Ambient Noise Level within factory periphery				
[d] Monitored by			SHIVA TEST HOUSE on 21.12.22				
[e] Items required to be tested			As per request				
[f] Whether any specific Method of Test has been suggested by the party			No				
S. N	Monitoring Location	Unit	Time Weighted Average (TWA) of Noise Level				
			Day time (6:00 am to 10:00 pm)	Night time (10:00 pm to 6:00 am)			
1.	Near Main Gate	dB(A)	63.2	55.1			
2.	Near Boiler House	dB(A)	58.7	49.6			
3.	Near Cooling Tower	dB(A)	61.3	55.2			
4.	Near ETP	dB(A)	62.5	55.2			
5.	Near Sugar Godown	dB(A)	61.3	48.2			
N.B.: The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.							

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2023.01.09
17:16:03 +05'30'

Verified by :
Technical Manager

Shreyasee Prasad

Digitally signed by
Shreyasee Prasad
Date: 2023.01.09
17:18:56 +05'30'

Authorized Signatory
Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/4274-4277		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				Shiva Test House on 25.11.22			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)				Filter Paper, Glass Impinger			
[h] Instrument ID				RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4			
[i] Sample Quantity				30 ml x 24 (for each NO ₂ , SO ₂)			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				26.11.22			
[n] Analysis Start Date / Analysis Completion Date				27.11.22 / 29.11.22			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Main Gate (SC_A-4474)	Near Store (SC_A-4475)	Near Cooling Tower (SC_A-4476)	Near Guest House (SC_A-4477)
Particulate Matter (PM ₁₀)	μg / m ³	IS 5182 (Part-23)	100	88.2	75.7	83.4	79.8
				82.3	81.0	81.4	88.6
				81.7	80.0	84.4	81.5
Particulate Matter (PM _{2.5})	μg / m ³	CPCB GMAAP	60	48.1	46.8	48.1	42.5
				36.7	31.6	36.7	26.3
				40.5	39.2	43.0	33.8
Sulphur Dioxide as SO ₂	μg / m ³	IS 5182 (Part-2)	80	15.1	11.1	19.1	15.6
				16.4	16.4	15.4	18.9
				12.1	10.1	13.1	13.7
				14.1	14.1	12.1	11.7
				11.1	11.1	14.1	13.7
Nitrogen Dioxide as NO ₂	μg / m ³	IS 5182 (Part-6)	80	19.1	19.1	16.1	17.6
				36.2	44.5	41.7	29.2
				33.5	38.4	39.1	31.2
				30.8	30.8	34.9	29.2
				29.4	26.7	32.1	26.5
31.5	30.1	33.5	28.5				
39.7	40.4	35.6	34.5				
Average Value							
PM ₁₀	μg / m ³			82.4	78.9	83.1	83.3
PM _{2.5}	μg / m ³			41.8	39.2	42.6	34.2
SO ₂	μg / m ³			14.6	13.6	15.0	15.2
NO ₂	μg / m ³			33.5	35.2	42.6	29.9

SHIBESHWAR PRASAD
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 Date: 2022.12.19 17:53:30 +05'30'

Verified by :
 Technical Manager



Shreyasee Prasad
 Digitally signed by Shreyasee Prasad
 Date: 2022.12.19 18:13:17 +05'30'
 Authorized Signatory
 Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/4278		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454				
[b] Sampling Environmental Condition			Temp. (°C)	26	Humidity (%)	67	
[c] Details of Sample			Monitoring of Ambient Noise Level within factory periphery				
[d] Monitored by			Shiva Test House on 25.11.2022				
[e] Items required to be tested			As per request				
[f] Whether any specific Method of Test has been suggested by the party			No				
S. N	Monitoring Location	Unit	Time Weighted Average (TWA) of Noise Level				
			Daytime (6:00 am to 10:00 pm)	Nighttime (10:00 pm to 6:00 am)			
1.	Near Main Gate	dB(A)	64.3	56.1			
2.	Near Boiler House	dB(A)	60.2	51.8			
3.	Near Cooling Tower	dB(A)	59.9	53.5			
4.	Near ETP	dB(A)	63.1	54.1			
5.	Near Sugar Godown	dB(A)	61.3	50.1			
N.B.: The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.							

SHIBESHWAR PRASAD

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Verified by :
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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Quality Manager

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TEST REPORT

Ref. No. <i>STH/TR/22-23/4288</i>	Dt: <i>16.12.2022</i>	Your Work Order No. <i>WP/215/22</i>	Dt: <i>08.08.2022</i>	
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454		
[b] Details of Sample		Monitoring of Stack Emission		
[c] Sample Collected by		SHIVA TEST HOUSE on 25.11.22		
[d] Sampling Location		Premises of Sugar Mill		
[e] Method of Sampling		IS 5182 (Part - 14)		
[f] Sampling Environmental Condition		Temp. (°C)	26 Humidity (%) 67	
[g] No. & Type of Container		Thimble & Glass Impinger		
[h] Instrument ID		VSS IPLS		
[i] Sample Quantity		60 ml		
[j] Sample Code		ST-4288		
[k] Sample Condition on Receipt		Fit for Analysis		
[l] Items required to be tested		As per contract		
[m] Whether any specific Method of Test has been suggested by the party		No		
[n] Date of receiving the sample		26.11.22		
[o] Analysis Start Date / Analysis Completion Date		27.11.22 / 29.11.22		
Parameters	Unit	Method of Test	Results	
1. Type of Fuel	---		Bagasse	
2. Stack Connected to	---		Dumping Grate Boiler No. 9 having Steam generation capacity 32.0 T / hr.	
3. Stack No.	---		I	
4. Height of Stack above ground level (as reported)	Meter		30.00 M.	
5. Dia of Stack at Top (as reported)	Meter		1.55 M.	
6. Material of Constriction	---		ID Fan	
7. Material of Construction	---		M.S.	
8. Ambient Temperature, °C	°C		26.0	
9. Flue Gas Temperature, °C	°C		125.0	
10. Velocity, m/sec.	m/sec.		IS 11255 (Part-3)	7.1
11. Volumetric Flow Rate (NM ³ /hr.)	NM ³ /hr.		33811.7	
12. Sampling Point	Meter		11.00 M.	
			Limit as per E (P) Rules Schedule I	Concentration (mg / NM ³)
13. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	500.00 mg / NM ³ (12% CO ₂)	42.5
14. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified	16.0
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	IS 11255 (Part-7)	Not Specified	34.0

SHIBESHWAR PRASAD

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TEST REPORT

Ref. No. STH/TR/22-23/4289		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 25.11.22			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	67
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS IPLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-4289			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				26.11.22			
[o] Analysis Start Date / Analysis Completion Date				27.11.22 / 29.11.22			
Parameters			Unit	Method of Test		Results	
1. Type of Fuel			---			Bagasse	
2. Stack Connected to			Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.				
3. Stack No.			II				
4. Height of Stack above ground level (as reported)			40.00 M.				
5. Dia of Stack at Top (as reported)			2.55 M.				
6. Material of Constriction			ID Fan				
7. Material of Construction			M.S.				
8. Ambient Temperature, °C			26.0				
9. Flue Gas Temperature, °C			132.0				
10. Velocity, m/sec.			m/sec.	IS 11255 (Part-3)	6.4		
11. Volumetric Flow Rate (NM³/hr.)			NM³/hr.		85935.6		
12. Sampling Point			Meter		19.00 M.		
					Limit as per E (P) Rules Schedule I	Concentration (mg / NM³)	
13. Particulate Matter (P.M.)			mg / NM³	IS 11255 (Part-1)	500.00 mg / NM³ (12% CO₂)	47.3	
14. Sulphur Dioxide (SO₂)			mg / NM³	IS 11255 (Part-2)	Not Specified	14.1	
15. Oxides of Nitrogen (NO₂)			mg / NM³	IS 11255 (Part-7)	Not Specified	34.0	

SHIBESHWAR PRASAD

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Technical Manager



Shreyasee Prasad

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Quality Manager

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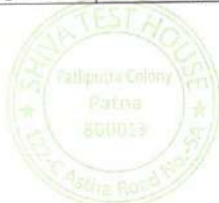
TEST REPORT

Ref. No. STH/TR/22-23/4290		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt: 05.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				SHIVA TEST HOUSE on 25.11.22			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	67
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				VSS IPLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-4290			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the party				No			
[n] Date of receiving the sample				26.11.22			
[o] Analysis Start Date / Analysis Completion Date				27.11.22 / 29.11.22			
Parameters		Unit	Method of Test		Results		
1. Type of Fuel	---				Bagasse		
2. Stack Connected to	---	Dumping Grate Type Boiler No. 11 having Steam generation capacity 40.0 T / hr.					
3. Stack No.	---	III					
4. Height of Stack above ground level (as reported)	Meter	40.00 M.					
5. Dia of Stack at Top (as reported)	Meter	2.50 M.					
6. Material of Constriction	---	ID Fan					
7. Material of Construction	---	M.S.					
8. Ambient Temperature, °C	°C	26.0					
9. Flue Gas Temperature, °C	°C	135.0					
10. Velocity, m/sec.	m/sec.	IS 11255 (Part-3)			7.4		
11. Volumetric Flow Rate (NM ³ /hr.)	NM ³ /hr.		88499.6				
12. Sampling Point	Meter		21.00 M.				
			Limit as per E (P) Rules Schedule I		Concentration (mg / NM ³)		
13. Particulate Matter (P.M.)	mg / NM ³	500.00 mg / NM ³ (12% CO ₂)	500.00 mg / NM ³ (12% CO ₂)		44.4		
14. Sulphur Dioxide (SO ₂)	mg / NM ³	Not Specified	Not Specified		16.4		
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	Not Specified	Not Specified		26.5		

SHIBESHWAR PRASAD

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Date: 2022.12.19 18:02:28 +05'30'

Verified by:
Technical Manager



Shreyasee Prasad

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Quality Manager

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TEST REPORT

Ref. No. <i>STH/TR/22-23/4291</i>		Dt: <i>16.12.2022</i>		Your Work Order No. <i>WP/215/22</i>		Dt: <i>08.08.2022</i>	
[a]	Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b]	Details of Sample			Borewell Water Sample			
[c]	Sample Collected by			SHIVA TEST HOUSE on 27.11.22			
[d]	Sampling Location			<i>Collected from Near Guest House</i>			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	26	Humidity (%)	67
[g]	No. & Type of Container			Plastic Bottle (02)			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			BW-4291			
[j]	Sample Condition on Receipt			Fit for Analysis			
[k]	Items required to be tested			As per Contract			
[l]	Date of receiving the sample			28.11.22			
[m]	Analysis Start Date / Analysis Completion Date			28.11.22 / 30.11.22			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results	
				Acceptable Limit	Permissible Limit in the absence of alternative source		
1	Colour	C.U.	IS 3025 (Part-4)	5	15	<5.0	
2	Odour	--	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable	
3	Taste	--	IS 3025 (Part-7))	Agreeable	Agreeable	Agreeable	
4	pH	--	IS 3025 (Part-11)	6.5 to 8.5	No relaxation	7.58	
5	Turbidity on NTU	--	IS 3025 (Part-10)	1.0	5.0	1.0	
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	284.0	
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	216.0	
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	52.9	
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	20.4	
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.42	
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1	<0.01	
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.0	196.0	
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	15.0	
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	23.8	
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	1.88	
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.30	

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Date: 2022.12.19 18:02:49 +05'30'

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Technical Manager



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Date: 2022.12.19 18:14:08 +05'30'

Authorized Signatory
Quality Manager

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Website : www.shivatest.com ; www.shivatesthouse.com





SHIVA TEST HOUSE

(Serving since 1988)



TC-10582

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TEST REPORT

Ref. No. STH/TR/22-23/4291(Mcb)		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W. Champaran – 845 454			
[b] Details of Sample				Borewell water sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 27.11.22			
[d] Sampling Location				Collected from Near Guest House			
[e] Method of Sampling				IS 1622			
[f] Sampling Environmental Condition				Temp (°c)	26	Humidity (%)	67
[g] No. & Type of Container				One Sterilized Glass Bottle			
[h] Sample Quantity				250 ml			
[i] Sample Code				BW-4291			
[j] Sample Condition on Receipt				Fit for analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				28.11.22			
[n] Analysis Start Date / Analysis Completion Date				28.11.22 / 29.11.22			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results	
1	Total Coliform	/ 100 ml	IS 1622:1981	Shall not be detectable in 100 ml.		Not Detected / 100 ml	



Vishal Sharma

Authorized Signatory
Section In-Charge (Microbiology)

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TEST REPORT

Ref. No. STH/TR/22-23/4292		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Untreated Effluent Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 27.11.22			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-4092			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per Contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample				28.11.22			
[n] Analysis Start Date / Analysis Completion Date				28.11.22 / 01.12.22			
S. N.	Parameters	Unit	Method of Test		Result		
1	pH	----	IS 3025 (Part-11)		8.22		
2	Suspended Solids	mg/l.	IS 3025(Part-17)		419.0		
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		4.7		
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)		480.0		
5	C.O.D.	mg/l.	APHA 5220 B		1280.0		
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		4.64		
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		24.1		
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		45.4		
9	Total Dissolved Solids	IS 3025(Part-16)	IS 3025(Part-16)		2608.0		

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2022.12.19
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Verified by :
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/4293		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454			
[b] Details of Sample				Treated Effluent sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 27.11.22			
[d] Sampling Location				From Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-4293			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				28.11.22			
[n] Analysis Start Date / Analysis Completion Date				28.11.22 / 01.12.22			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH	---	IS 3025 (Part-11)		5.5 to 8.5		7.64
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		46.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		10.00		1.4
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)		100.00		26.0
5	C.O.D.	mg/l.	APHA 5220 B		Not Specified		128.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		Not Specified		1.16
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		Not Specified		11.2
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		Not Specified		19.04
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)		2100.00		747.0

SHIBESHWAR PRASAD

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Date: 2022.12.19
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Verified by :
Technical Manager



Shreyasee Prasad

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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/4294		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Effluent sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 27.11.22			
[d] Sampling Location				Collected from Pond Water			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-4294			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				28.11.22			
[n] Analysis Start Date / Analysis Completion Date				28.11.22 / 01.12.22			
S. N.	Parameters	Unit	Method of Test	Limit as per Rules Schedule VI	E (P)	Result	
1	pH	---	IS 3025 (Part-11)	5.5 to 8.5		7.14	
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0		49.0	
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00		0.9	
4	B.O.D.(3 days at 27°C)	mg/l.	IS 3025 (Part-44)	100.00		26.0	
5	C.O.D.	mg/l.	APHA 5220 B	Not Specified		116.0	
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	Not Specified		1.16	
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	Not Specified		8.4	
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	Not Specified		11.2	
9	Total Dissolved Solids	mg/l.	IS 3025(Part-16)	2100.00		366.0	

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2022.12.19
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Verified by :
Technical Manager



Shreyasee Prasad

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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/4295		Dt: 16.12.2022		Your Work Order No. WP/215/22		Dt: 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Water Sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 27.11.22			
[d] Sampling Location				Collected from Upstream of River Kohra			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				SW-4295			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per contract.			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				28.11.22			
[n] Analysis Start Date / Analysis Completion Date				28.11.22 / 01.12.22			
S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result	
				For Class 'A'	For Class 'C'		
1.	pH	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.33	
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	91.0	
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500	1500	204.0	
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	1.7	
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	20.0	
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	11.0	
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	7.2	
Class 'A': Drinking water source without conventional treatment but after disinfection							
Class 'C': Drinking water source with conventional treatment followed by disinfection.							

SHIBESHW
AR PRASAD

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SHIBESHWAR PRASAD
Date: 2022.12.19
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Technical Manager



Shreyasee
Prasad

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TEST REPORT

Ref. No. STH/TR/22-23/4296	Dt: 16.12.2022	Your Work Order No. WP/215/22	Dt: 08.08.2022
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454		
[b] Details of Sample	Water Sample		
[c] Sample Collected by	SHIVA TEST HOUSE on 27.11.22		
[d] Sampling Location	Collected from Downstream of River Kohra		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 67
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Sample Code	SW-4296		
[j] Sample Condition on Receipt	Fit for Analysis		
[k] Items required to be tested	As per contract.		
[l] Whether any specific Method of Test has been suggested by the customer	No		
[m] Date of receiving the sample in Laboratory	28.11.22		
[n] Analysis Start Date / Analysis Completion Date	28.11.22 / 01.12.22		

S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result
				For Class 'A'	For Class 'C'	
1.	pH	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.27
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	105.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500.0	1500.0	215.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	1.6
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	24.0
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	15.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	7.0

Class 'A': Drinking water source without conventional treatment but after disinfection

Class 'C': Drinking water source with conventional treatment followed by disinfection.

SHIBESHWAR PRASAD

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Date: 2022.12.19
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Verified by :
Technical Manager



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Quality Manager

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TEST REPORT

Ref. No. <i>STH/TR/22-23/3056</i>		Dt: <i>21.10.2022</i>		Your Work Order No. <i>WP/215/22</i>		Dt: <i>08.08.2022</i>	
[a]	Name and address of the Customer			Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b]	Details of Sample			Borewell Water Sample			
[c]	Sample Collected by			SHIVA TEST HOUSE on <i>11.10.22</i>			
[d]	Sampling Location			Collected from Near ETP			
[e]	Method of Sampling			IS 3025 / APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	30	Humidity (%)	69
[g]	No. & Type of Container			Plastic Bottle (02)			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			<i>BW-3056</i>			
[j]	Sample Condition on Receipt			Fit for Analysis			
[k]	Items required to be tested			As per Contract			
[l]	Date of receiving the sample			<i>12.10.22</i>			
[m]	Analysis Start Date / Analysis Completion Date			<i>12.10.22 / 15.10.22</i>			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results	
				Acceptable Limit	Permissible Limit in the absence of alternative source		
1	Colour	C.U.	IS 3025 (Part-4)	5	15	<5.0	
2	Odour	--	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable	
3	Taste	--	IS 3025 (Part-7))	Agreeable	Agreeable	Agreeable	
4	pH	--	IS 3025 (Part-11)	6.5 to 8.5	No relaxation	7.52	
5	Turbidity on NTU	--	IS 3025 (Part-10)	1.0	5.0	0.9	
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	252.0	
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	182.0	
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	46.5	
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	16.0	
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.20	
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1	<0.01	
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.0	202.0	
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	10.0	
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	20.1	
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	1.47	
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.34	

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
Date: 2022.12.19
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Verified by :
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
Date: 2022.12.19
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Quality Manager

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TEST REPORT

Ref. No. STH/TR/22-23/3056(Mcb)		Dt: 21.10.2022		Your Work Order No. WP/215/22		Dt : 08.08.2022	
[a] Name and address of the Customer				Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample				Borewell water sample			
[c] Sample Collected by				SHIVA TEST HOUSE on 11.10.22			
[d] Sampling Location				Collected from near ETP			
[e] Method of Sampling				IS 1622			
[f] Sampling Environmental Condition				Temp (°c)	30	Humidity (%)	69
[g] No. & Type of Container				One Sterilized Glass Bottle			
[h] Sample Quantity				250 ml			
[i] Sample Code				BW-3056			
[j] Sample Condition on Receipt				Fit for analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				12.10.22			
[n] Analysis Start Date / Analysis Completion Date				12.10.22 / 13.10.22			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results	
1	Total Coliform	/ 100 ml	IS 1622:1981	Shall not be detectable in 100 ml.		Not Detected / 100 ml	
2	E. coli	/ 100 ml	IS 1622:1981	Shall not be detectable in 100 ml.		Not Detected / 100 ml	



Vishal Sharma
Authorized Signatory
Section In-Charge (Microbiology)

-- END OF TEST REPORT --

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.

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