



Majhaulia Sugar Industries

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

WP/60/24

May 15, 2024

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

Sub:- HALF YEARLY COMPLIANCE REPORT OF JUNE, 2024.

Dear Sir,

Please find enclosed herewith the Six Monthly Compliance Report alongwith details of analysis of ground water, untreated and treated water, storage pond water, upstream and downstream river water, noise level, All 3 boilers stack emission, ambient air quality analysis report from 01.10.2023 to 31.03.2024.

We are also enclosing herewith the photocopy of E.T.P. flow diagram, Process flow diagram, NOC from CGWA, New Delhi, Authorization of Hazardous waste, copy of discharge and emission Consent Order (CCA) 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 01.10.2023 TO 31.03.2024)

<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	<p>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.</p> <p>During the period 2023-24, our sugar mill was in operation from Nov.'2023 to Mar.'2024.</p> <p>989 m³/day of waste water is generated during season & after treatment 917 m³/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.</p>																										
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.'23 – Mar.'24 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;">7.43 – 7.55</td></tr> <tr><td>2. Turbidity on NTU</td><td style="text-align: center;">0.80 – 0.90</td></tr> <tr><td>3. Total Dissolved Solids (TDS)</td><td style="text-align: center;">286.0 – 312.0</td></tr> <tr><td>4. Total Hardness as CaCO₃</td><td style="text-align: center;">178.0 – 226.0</td></tr> <tr><td>5. Calcium as Ca</td><td style="text-align: center;">40.0 – 57.7</td></tr> <tr><td>6. Magnesium as Mg</td><td style="text-align: center;">16.5 – 19.9</td></tr> <tr><td>7. Iron as Fe</td><td style="text-align: center;">0.25 – 0.27</td></tr> <tr><td>8. Total Alkalinity as CaCO₃</td><td style="text-align: center;">232.0 – 252.0</td></tr> <tr><td>9. Chloride as Cl</td><td style="text-align: center;">20.0 – 24.0</td></tr> <tr><td>10. Sulphate as SO₄</td><td style="text-align: center;">20.9 – 24.8</td></tr> <tr><td>11. Nitrate as NO₃</td><td style="text-align: center;">2.2 – 3.6</td></tr> <tr><td>12. Fluoride as F</td><td style="text-align: center;">0.27 – 0.32</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	7.43 – 7.55	2. Turbidity on NTU	0.80 – 0.90	3. Total Dissolved Solids (TDS)	286.0 – 312.0	4. Total Hardness as CaCO ₃	178.0 – 226.0	5. Calcium as Ca	40.0 – 57.7	6. Magnesium as Mg	16.5 – 19.9	7. Iron as Fe	0.25 – 0.27	8. Total Alkalinity as CaCO ₃	232.0 – 252.0	9. Chloride as Cl	20.0 – 24.0	10. Sulphate as SO ₄	20.9 – 24.8	11. Nitrate as NO ₃	2.2 – 3.6	12. Fluoride as F	0.27 – 0.32
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4. Particulate emissions from the baggase 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. - 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 http://majhauilasugar.com . 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/2/2023/7976 valid from 01.01.2023 to 31/12/2025. (Copy attached as Annexure – II)
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.'23 – Mar.'24 shows that PM ₁₀ varied between 69.8 – 76.1 µg/m ³ , PM _{2.5} varied between 37.7 – 39.8 µg/m ³ , SO ₂ varied between 12.8 -13.9 µg/m ³ & NO ₂ varied between 32.9 – 34.9 µg/m ³ Attached as Annexure – III
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 7.30 – 7.41, TSS varied from 32 - 43 mg/l., TDS varied from 484 - 512 mg/l., BOD varied between 18 - 22 mg/l., COD varied between 116 - 132 mg/l. All these values are within the limit prescribed under E (P) rules.

<i>Conditions as per MoEF F. No. J-11011/43/2009-IA II (I)</i>	<i>Compliance Details</i>
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 are 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.'23 to Mar.'24 shows that concentration of PM varied from 37.7 – 49.6 mg/NM³, SO₂ varied from 7.5 – 16.9 mg/NM³ & NO₂ varied from 38 – 62.1 mg/NM³. Stack Emission Monitoring report is attached as Annexure IV</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.'23 – Feb.'24 period for day time varied from 56.4 - 69.5 dB(A) & for night time varied from 45.1 – 60.1 dB(A)</p> <p>Noise Monitoring report is attached as Annexure V.</p>
6. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP	All the environmental protection measures and safeguards recommended in the EIA/EMP is being complied
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	One Doctor, two compounders and one Dresser is appointed for regular health check up for the employees and also emergency services is being provided to nearby areas. The records of health check up of the employees are being maintained separately.
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 the 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.	The project authorities are providing requisite funds (Rs. 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.

<i>Conditions as per MoEF F. No. J-11011/43/2009-IA 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 reports.
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 5000 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

From

S. Chandrasekar,
Member Secretary

To,

M/s Majhauria Sugar Industries.
At & P.O- Majhauria
Dist- West Champaran-845454
State- Bihar (INDIA)

Consolidated Consent to Operate and Authorization hereinafter referred to as the CCA (Consolidated Consent & Authorization) Renewal under Section- 25 of the "Water (Prevention & Control of Pollution) Act., 1974" and under Section- 21 of the "Air (Prevention & Control of Pollution) Act, 1981" and Authorization under "Rule -6(2)" of the "Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016" notified under "Environment (Protection) Act, 1986" as applicable (to be referred hereinafter as Water Act, Air Act and HW Rules respectively).

Application ID - 8044838

dated: 30.08.2023

Ref. No.: 2821

Date: 21.12.23

CCA is hereby granted to M/s Majhauria Sugar Industries, located at At & P.O- Majhauria, Dist-West Champaran subject to the provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the orders that may be made further and subject to following terms and conditions: -

1. This CCA is granted for the period up to 30/09/2028 from the date of issuance of this letter, under Section-25 of the "Water (Prevention & Control of Pollution) Act, 1974.
2. This CCA is granted for the period up to 30/09/2028 from the date of issuance of this letter, under Section-21 of the "Air (Prevention & Control of Pollution) Act, 1981.
3. This CCA is granted for the period up to 30/09/2028 from the date of issuance of this letter under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016" notified under "Environment (Protection) Act, 1986.
4. Production capacity

Sl No	Type of Sugar Industry	Capacity of Co-generation	Cane crushing capacity (in TCD)	Permitted by the Board
1.	Standalone sugar	NA	5000	5000

5. By-Production if any with capacity:

Name of By Product	Unit Name	License Capacity	Product	Install Capacity	Product
Molasses	Metric Tonnes/Day	NA		339408.60 Quintal	
Bagasse	Metric Tonnes/Day	NA		1783444.55 Quintal	
Press Mud	Metric Tonnes/Day	NA		206871.45 Quintal	

6. Water conservation:

A. Fresh water consumption:

- Categorization of existing groundwater area: Safe/ Semi critical /Critical/Over-Exploited/ Saline – Safe
- Status of NOC from CGWA/SGWB: Applied/granted – **Granted**
- Validity of NOC: **-31.12.2025**
- Details of Artificial recharge system/rain water harvesting unit installed with capacity.
Roof top Rain Water Harvesting System : 55436.32 m3
- Details of piezometer installed i.e., numbers with coordinates.
2 Nos piezometer installed: Latitude: 26.798155, Longitude: 84.625806
Latitude: 26.796436, Longitude: 84.626424
- Industry shall install sealed and calibrated flow meters at fresh water abstraction and consumption points (process & domestic) and maintain the logbooks for same.

Sl. No.	Sources of fresh water	Nos. with daily abstraction capacity	Applied quantity (KLD)	Max. Permitted abstraction quantity (KLD)	Status of flow meter installed
1.	Borewell	BW-1	659 KLD	659 KLD	Yes

- Maximum allowable fresh water consumption based on applicable specified process category

S. No.	Type of Sugar Industry	Fresh Water Consumption
		Industrial (L/T of Cane Crushed)
1.	Stand alone sugar	<80
2.	Sugar with co-generation	<100
3.	Refinery	<80
4.	Refinery with co-generation	<100

B. Effluent generation, treatment and disposal: -

S. No.	Kind of Effluent	Maximum daily discharge, KLD	Treatment Facility and Discharge point
1	Domestic KLD	STP
2	Industrial	858 KLD	ETP

- The specific quantity of maximum daily effluent discharge should not be more than the following:

S. No.	Type of Sugar Industry	Maximum daily treated effluent discharge limit* (L/T of cane crushed)
1.	Stand alone sugar	<160
2.	Sugar with co-generation	<180
3.	Refinery	<170
4.	Refinery with co-generation	<180

*Maximum daily discharge shall be equal to multiplication of total production as per Para 4 and specific effluent discharge as per Para 5 (B-a). The treated effluent shall be recycled to the maximum extent and remaining treated effluent after tertiary level treatment shall be used for irrigation purpose/discharged.

- b. Industry shall install the Effluent treatment plant consisting of primarily (screen, grit chamber and equalization tank with air blower, neutralization tank, primary clarifier), secondary biological treatment (anaerobic filter tank**, aeration tank and secondary clarifier) and tertiary treatment (MGF/ACF etc.) units with adequate capacity. **In case no separate sulphate removal system installed.
- c. The industry shall install flow meters at ETP inlet, outlet and recycling point and maintain the daily logbook for the same.
- d. Industry shall install the OCEMS of parameters pH, BOD, COD, TSS and flow at outlet and connected to CPCB/SPCB servers.
- e. Effluent generated in all the processing houses viz. mill & boiling house, steam generation house, Process Cooling Tower (PCT) blow down/ spray pond i.e. overflow, DM/RO reject/gland leakages from boiler feed pump, effluent generated from dewatering of sludge and washing of floor and other equipment etc. should be treated in ETP before its disposal* so that it should be according to the norms prescribed as under.

S.No.	Parameter	Standard
1.	pH	5.5-8.5
2.	Biological Oxygen Demand (BOD) (mg/l)	30
3.	Chemical Oxygen Demand (COD) (mg/l)	250
4.	Total Suspended Solids (TSS) (mg/l)	30
5.	Total Dissolved Solids (TDS) (mg/l)	2100
6.	Oil & Grease (O&G) (mg/l)	10

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

- f. During no demand period for irrigation, the treated effluent to be stored in a seepage proof lined pond (Lagoon) having 15 days holding capacity only. The treated effluent being pumped for irrigation purpose from lagoon shall comply with the effluent discharge norms prescribed for irrigation vide Gazette dated 14.01.2016 under Schedule I of E(P)Rules, 1986. The industry shall install sealed electromagnetic flow meter at outlet point of lagoon and shall maintain record of running hour and treated effluent used for irrigation purpose.
- g. Effluent Treatment Plant to be stabilized one month prior to the start of the crushing season and continue to operate one month after the crushing season.
- h. Proper color coding of pipe lines and water channels to be implemented for the recycled process water, fresh water and effluent carrying lines.
- i. The industry shall identify recipient drains/rivulets and their u/s & d/s location in consultation with <Name of SPCB> and shall carry out monthly monitoring of identified recipient drains at u/s & d/s location through lab recognized under Environment(P) Act, 1986 and shall submit the analysis report on monthly basis to CPCB and BSPCB.

S.No.	Name of recipient drain/rivulets	Latitude	Longitude	Quality of effluent of drain	Name of the recipient river
1	Pucca lagoon.		-	As per BSPCB standard.	NA

j. Sludge handling system

S.No.	Sludge handling system (SDB/Centrifuge /Filter press)	Quantity of ETP sludge	Sludge storage area	Sludge disposal mechanism
1.	SDB	196.67	Farm	Used in own Farm as manure

C. Domestic sewage

- i. The domestic effluent should be treated separately in sewage treatment plant/ soak pit so that it should be in conformity with the following norms.

S. No.	Parameter	Standard
1.	pH	As per SPCB
2.	BOD	As per SPCB
3.	COD	As per SPCB
4.	TSS	As per SPCB
5.	T. Nitrogen	As per SPCB

*Trade effluent and domestic sewage shall be treated separately and also to be monitored for compliance w.r.t. notified norms separately. However, Single outlet can be provided after mixing for outside disposal.

- ii. Industry shall install the flow meter at STP inlet and outlet and maintain the daily logbook.
- iii. Industry shall explore the possibility to recycle the treated used water shall be utilized in gardening, irrigation, industrial utility and toilet flushing to minimize the fresh water consumption up to 20 % per year.

Cleaner Technology and waste minimization options:

- i. Principle Secretary, BSPCB issued directions dated <.....> directing sugar mills to implement the "Charter for Effluent Treatment by Sugar Factories Situated in River Ganga Basin" conditions, which was formulated by CPCB to enforce appropriate technologies for effluent treatment in sugar factories and to comply with the prescribed environmental norms, accomplish desired level of environmental protection and achieve prescribed norms of discharge.

- ii. According to Charter, the industry shall implement a "Model condensate conservation cum Hot & cold Water Management System" focusing on maximum recycling of water. Necessary system comprising cooling towers and underground reservoirs etc. shall be implemented separately for cold re-circulating water and surplus condensate. Unit shall install electromagnetic flow meters at following points:

S.No.	Flow meter installation points at Hot & Cold-water recycling system
1.	Hot water UGR.
2.	Cold water UGR and cooling towers
Hot water- Location of flow meter & its Installation	
1.	Imbibitions water at mills
2.	Filter cake wash water at rotary vacuum filter
3.	Sugar melting, pan boiling, molasses conditioning
4.	Wet Scrubber make-up
5.	Boiler make-up in case of low pressure boiler
Cold water-Location of flow meter & its Installation.	
1.	Power turbine cooling

2.	Mills, fibrizer bearing, pumps cooling
3.	Wet scrubber make-up
4.	Cooling tower of co-generation make-up
5.	SO ₂ gas cooling
6.	B and C massecuite cooling
7.	Final molasses cooling

- iii. Recirculation of water employed in SO₂ gas coolers shall be ensured with proper cooling through cooling towers in case of plantation white sugar.
- iv. The industry shall ensure the construction of small pits with smooth cleaned inner surface preferably with ceramic tiles near to boiler feed pumps, condensate pumps. Injection pumps spray pumps and RVF vacuum pumps to collect gland cooling water in their respective pits without any contamination.
- v. The industry shall implement dry cleaning of factory floors etc. using bagasse instead of wet cleaning using water.
- vi. The industry shall provide covered conveyor to transfer bagasse by the sugar factories to prevent floating bagasse particles in ambient air.
- vii. Re-circulation of cooling water used for cooling B and C- massecuites with proper cooling through cooling towers arrangement rather drawing fresh water shall be adopted.
- viii. Minimum quantity of wash water to be applied at centrifugals for B and C mass quite curing to minimize loss of sugar in molasses and to control steam consumption.
- ix. The industry shall install CPU (Condensate Polishing Unit) to use surplus condensate for use as make-up water at cogeneration cooling tower & boiler feed water (for low/medium pressure boilers) and for use as make-up water at cogeneration cooling tower (for high pressure boilers).
- x. The industry shall install membrane based (2-stage) or other suitable technologies to attain a brine recovery of at least 80% in sugar refineries having Ion Exchange Resins for de- colorization of the sugar melt and rinse water recovery system in case of sugar refinery.
- xi. The industry shall use of surplus cooled condensate as make up water replacing the fresh water thus reducing fresh water requirement and effluent generation as well.
- xii. The industry shall adopt different options for separate or combined treatment of spray pond/PCT overflow as mentioned in charter.
- xiii. The industry shall ensure the maintenance of retention /contact time in various sub-units of ETP viz. equalization tank, aeration tank, primary and secondary clarifiers, multi-grade filters, multi grad and activated carbon filter etc. as per charter.

S. No.	Unit with sizes/capacity	Retention Time/Contact Time (Mentioned in CPCB charter)	As declared by Industry
1.	Bar screen Chamber	30 minutes	5 min.
2.	Oil & grease tank	45 minutes	40 min.
3.	Equalization tank with aeration	6 hrs	6 hrs. & 45 min.
4.	pH correction tank	10 min.	-
5.	Primary Clarifier	5-6 hrs	4.15 hrs.
6.	Aeration tank	24-28 hrs	
7.	Secondary Clarifier	7-8 hrs	5.10 hrs.
8.	Sand/multi grade filter	20-25 minutes	22 min.

9.	Activated carbon filter	20-25 minutes	22 min.
10.	Sludge drying bed	Not less than 0.03 m ³ per ton of cane.	
11.	Centrifuge	The equipments to be of adequate capacity for handling the sludge generated in the process.	
12.	Filter Press		

- xiv. Proper infrastructure for operation and maintenance of ETP shall be developed by recruiting / hiring required skilled & technical staff.
- xv. Analytical facilities (laboratory) for analysis various streams of water, untreated and treated effluent for various parameters viz. pH, BOD, COD, TSS, TDS and MLSS etc. shall be developed by the industry.
- xvi. The industry shall create Environment Management Cell by appointing Environment officer, Engineer, chemist, agricultural expert and the same copy submitted to the board with contact details.
- xvii. The industry shall resort to rain water harvesting as a measure towards avoiding exploitation of natural resources. Rain water recharge structures/ pits/ ponds near to processing area should be discouraged due to possibilities of entering effluent/ industrial runoff in ground water.

Environmental management system

- i. Industry shall setup the environmental management cell including unit head, purchase/store manager, process operation head, ETP in charge to effectively monitoring of environmental compliance
- ii. Industry shall setup the environmental laboratory for testing of minimum wastewater quality parameters like pH, TSS, BOD, COD, MLSS and DO to effectively monitoring of ETP control parameters and ETP discharge norms.

7. Air pollution mitigation: -

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

Sr. No.	Stack attached with	Stack height (Mt)	Type of Fuel	Fuel Quantity	Emission Control Equipment	Emission standards not to exceed
1.	Boiler 32 TPH	30	Bagasse	48412.724	Wet-scrubber Device	500 mg/NM ³
	Boiler 40 TPH	40	Bagasse	60490.499	Wet-scrubber Device	500 mg/NM ³
	Boiler 40 TPH	40	Bagasse	60490.499	Wet-scrubber Device	500 mg/NM ³
2.	DG Set	-	-	-	-	-

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

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

Standards for noise level in db(A) leq	Industrial Area		Commercial Area		Residential Area		Silence Zone	
	Day time	Night time	Day time	Night time	Day time	Night time	Day time	Night time
	75	65	65	55	55	45	50	40

Day time: - 6.00 am to 10.00 pm, Night time: - 10.00 pm to 06.00 am

- (iii) The industry shall operate in a manner so that all emissions be emitted through designated chimney/stack only.
- (iv) The industry shall keep record for boiler ash & its disposal and maintain the designated boiler ash disposal site properly fenced with caution is play to avoid accidents.
- (v) The APCS for controlling emissions should be properly maintained and continuously operated. The stack should be as per norms and regular monitoring of stack and ambient air should be done by the laboratory recognized under E(P) Act 1986 and report be sent to the Board.
- (vi) The water shall be sprinkled on the roads and premises for suppression of road dust.
- (vii) The sugar factories shall provide On-line emission (stack) monitoring system to monitor record and transmit the data related to SPM level (mg/Nm³) to <Name of SPCB>/ CPCB.
- (viii) The industry shall prepare Standard Operating Procedures (SOPs) for accident management and Process safety management.

8. Conditions under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016: -

Hazardous Waste Management (As per FORM 2 - [rule 6(2)])

- Number of authorization and date of issue: CGWA/NOC/IND/REN/2/2023/7
- Reference of application (No. and date) : 7026362, date: 16.12.2022, valid up to 31
- M/s Majhauria Sugar Industries. of 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

Details of Authorization

S. 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	5.1 Used oil	Sold to authorized recyclers.	1.275 TPA
	35.4 Oil & Grease skimming	Incineration through authorized TSDF	3.0 TPA

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

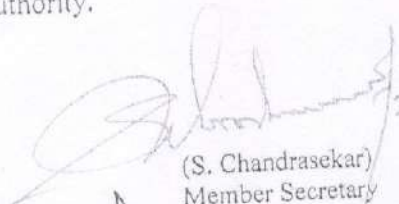
A. General conditions of authorization:

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. 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;
6. 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"
7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorization shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

General Conditions

1. The applicant shall get analysis of the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF&CC and shall report to the SPCB.
2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.
3. Treated waste water and domestic waste water shall be disposed jointly at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.
4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions with 30 days of receipt of this CCA. If, at any point of time, it is found that

- the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.
5. The applicant shall maintain good housekeeping. All valves/pipes/sewer/drains etc. must be leak-proof.
 6. The industry shall provide uninterrupted entry to this STP's/ETP's inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling/monitoring of efficiency of pollution control measures.
 7. The industry shall provide "Inspection Book" at the time of inspection to the Board's officials.
 8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.
 9. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
 10. The applicant shall apply before the 60 days of expiry of CCA or any change in production types/production capacity/manufacturing process/capacity enhancement etc. or any change in effluent discharge point or emission point.
 11. The Board reserves the right to revoke/add/modify any stipulated conditions issued along with CCA, as may be necessary.
 12. Any unauthorized change in personnel, equipment as working condition as mentioned in the application by the person authorized shall constitute a breach of his authorization.
 13. It is the duty of the authorized person to take prior permission of the Board to close down the facility.
 14. The authorization is valid for temporary storage of Hazardous Waste within premises only.
 15. It is duty of the authorized person to take prior permission of this Board to close and cleanup the facility for treatment, storage and disposal of hazardous waste.
 16. Industry shall submit the latest copy of Audit Balance sheet/C.A. Certificate (Fixed Assests + Current Assets-Current Liabilities) so that the Consent fee payable by the industry may be verified.
 17. Generated hazardous waste shall be stored temporarily in the factory premises and disposed of through authorized TSDF after obtaining the authorization from the Board
 18. Unit shall develop green belt as per the protocol of Board's office order **33 % of the plant area** as per EC granted F. No. SIA/(5j)/1276/2021 dated: 02.04.2021, which is available on Sate Board's Website.
 19. The industry shall comply with the provisions of Environment (Protection) Amendment, Rules 2018 notified by MoEF&CC by Notification no 49 Dt. 25.01.2018, Environment (Protection) Act 1986, Water (Prevention and Control of Pollution) Act, 1974 as amended, Air (Prevention and Control of Pollution) Act, 1981 as amended, Plastic Waste Management Rule 2016, E-Waste (Management and Transboundary Movement) Rules 2016 (Whichever is applicable).
 20. If closure order is issued by CPCB or SPCB against the unit then CCA will remain suspended during the closure period. After ensuring the compliance and after revocation of the closure order, the CCA will automatically be effective from the date of issuance of the closure revocation order with additional conditions mentioned in the closure revocation order.
Issue with the permission of the competent authority.


(S. Chandrasekar)
Member Secretary



BIHAR STATE POLLUTION CONTROL BOARD

Parivesh Bhawan, Patliputra Industrial Area, Patna-800 010

EPABX: 0612-2261250/2262265, Fax: 0612-2261050; E-mail: msbspcb-bih@gov.in, Website: <http://bspcb.bihar.gov.in>

FORM 2

[See rule 6(2)]

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

1. Number of authorization and date of issue : HW/B-376 Patna, dated- 05-02-24
2. Reference of application (No. and date) : 7026362, dated- 16.12.2022.
3. M/s Majhauria Sugar Industries, 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, offering for sale, transfer, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at Majhauriya, Dist.-West Champaran (Bihar).

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) as per Schedule-I; and	Generation, collection, storage, transportation and offering for sale of used or spent oil (HW cat. no. 5.1) for the purpose of its recycling to the authorized recycler; and	1. Used or spent oil: 1.5 KLA (1.27 TPA); and
2.	Oil and grease skimming (HW cat. no. 35.4) as per Schedule-I.	Generation, collection, storage and transportation of Oil and grease skimming (HW cat. no. 35.4) shall be disposed through co-processing in cement industry or authorized TSDF incineration.	2. Oil and grease skimming: 03 TPA

- 1) The authorization shall be valid for a period of five years i.e. (17.12.2022 to 16.12.2027).
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.

8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
12. An application for the renewal of an authorization shall be made as laid down under these Rules.
13. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific conditions:

- 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 and other wastes 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 and other wastes used or spent oil (HW cat. no. 5.1, as per Schedule-I) for the temporary period in MS drums for its sale to the authorized recycler.
- e) The oil and grease skimming (HW cat. no. 35.4, as per Schedule-I) shall be disposed through co-processing in cement industry or authorized TSDF incineration.
- f) The unit shall ensure that no damage is caused to environment during collection, storage & transportation of its HW.
- g) The unit shall ensure that HW are packaged in a suitable manner for safe handling, storage, transport and labelled as per Form-8 of the rule.
- h) The unit shall provide relevant information regarding hazardous nature of waste and measures to be taken in case of an emergency in Form-9 to the transporter.
- i) The unit shall maintain the manifest system (movement document) for the movement of HW within the country in Form-10 of the rule.
- j) In case of transportation of hazardous waste for recycling or utilization including co-processing, the unit (sender) shall intimate the State Board of the destination & transit State Board in compliance with rule-18 (4 & 5) in addition with this Board.
- k) The unit (sender) shall obtain No Objection Certificate (NOC) for final disposal of hazardous & other waste to a facility existing in a state other than state where waste is generated, from the SPCB of both the state in compliance with rule-18(3).
- l) The unit shall sale the hazardous and other wastes to the authorized recycler/actual user after making the entry into their passbook.
- m) The unit shall made an application for renewal of authorization three months before the expiry of such authorization.

S. Chandraseka Date: 2024.02.05
12:15:45 +05'30'

r (S. Chandrasekar)
Member Secretary.

Place: Patna.

Date:



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:	Majhulia Sugar Industries Pvt. Ltd.
Project Address:	P.o.: Majhulia, Dist. West Champaran
Village:	Majhwalia Block: Majhulia
District:	Pashchim Champaran State: Bihar
Pin Code:	
Communication Address:	Majhulia, West Champaran, Majhulia, Pashchim Champaran, Bihar - 845454, Majhulia, 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/2/2023/7976 | 2. Date of Issuance | 30/06/2023 |
| 3. Application No.: | 21-4/241/BR/IND/2017 | 4. Category: | Safe |
| | | (GWRE 2022) | |
| 5. Project Status: | Existing Ground Water | 6. NOC Type: | Renewal |
| 7. Valid from: | 01/01/2023 | 8. Valid up to: | 31/12/2025 |
| 9. 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 | | |
| | 659.00 112275.00 | | |

10. Details of ground water abstraction /Dewatering structures

Abstraction Structure*	Total Existing No.:1						Total Proposed No.:0					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
	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												
11. Ground Water Abstraction/Restoration Charges paid (Rs.):	766632.00											
12. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	Monitoring Mechanism											
	Manual						DWLR** DWLR With Telemetry					
	2						0 1 1					

**DWLR - Digital Water Level Recorder

(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

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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 application 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 at 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, CGWA 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/discharges of effluents or any such matter as applicable.

General conditions:

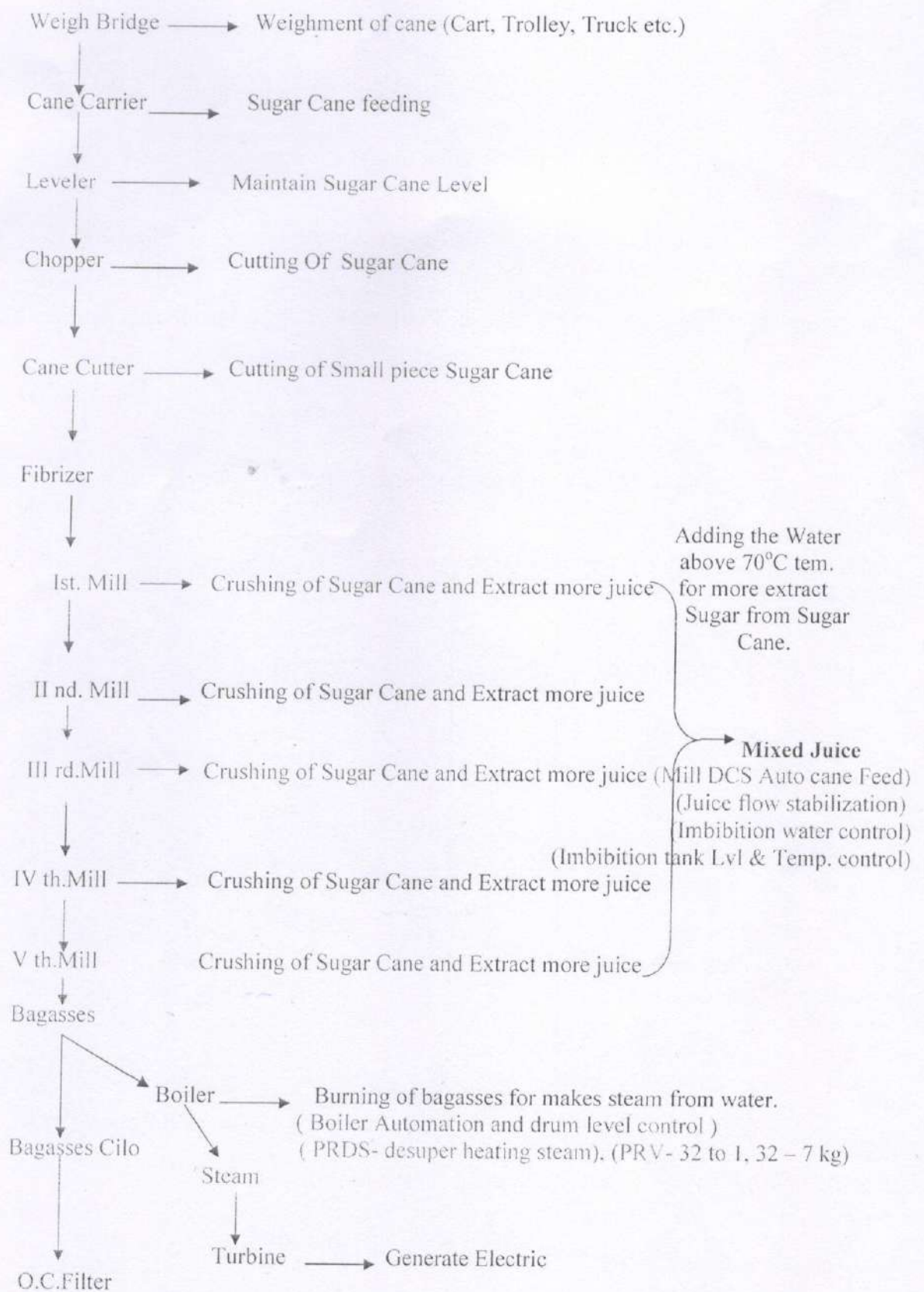
- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
 - 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more 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) Whenever 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 CPCQ 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.)

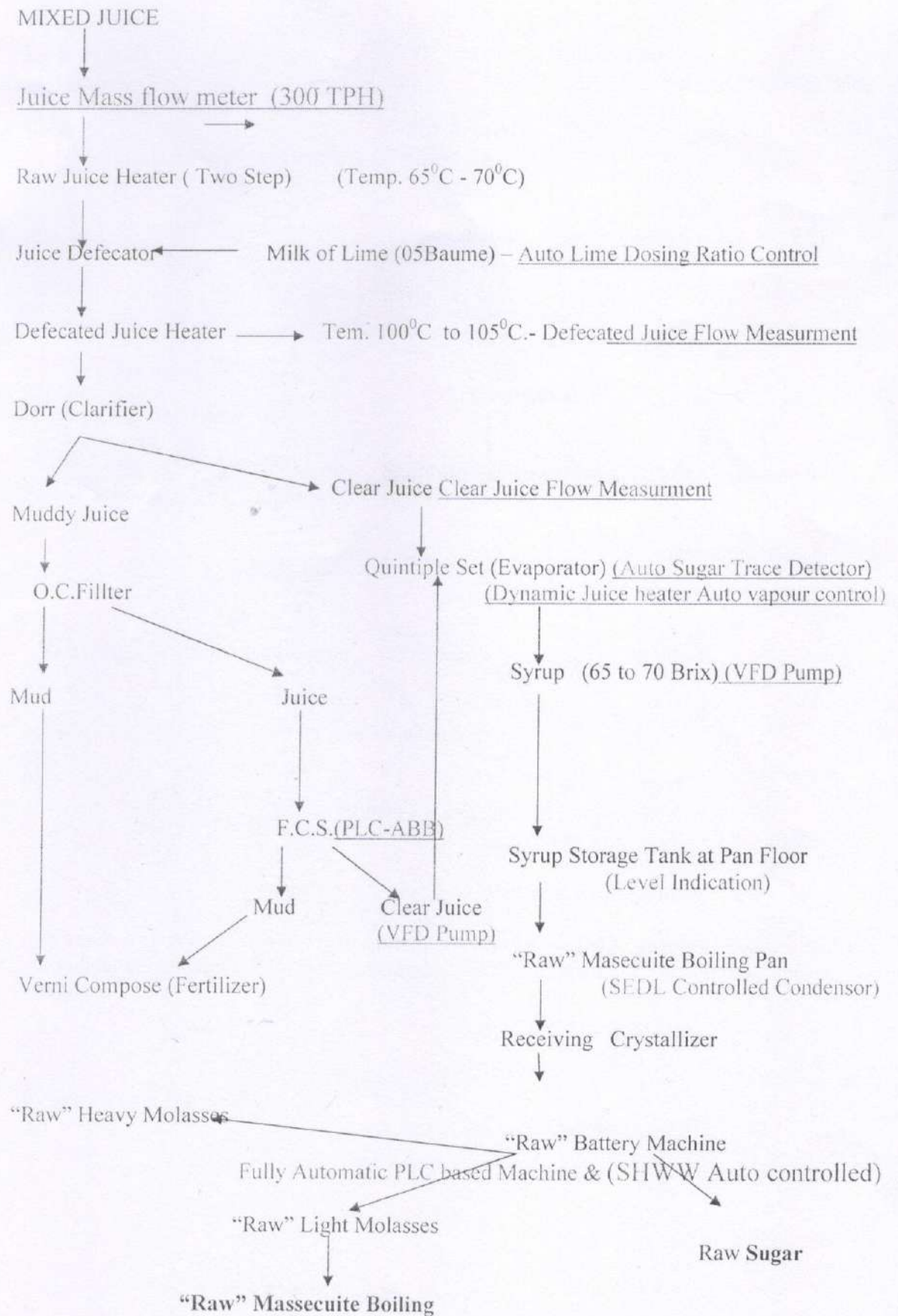
CENTRAL GROUND WATER AUTHORITY
Department of Water Resources, River Development and Ganga Rejuvenation
Ministry of Jal Shakti, Govt. of India

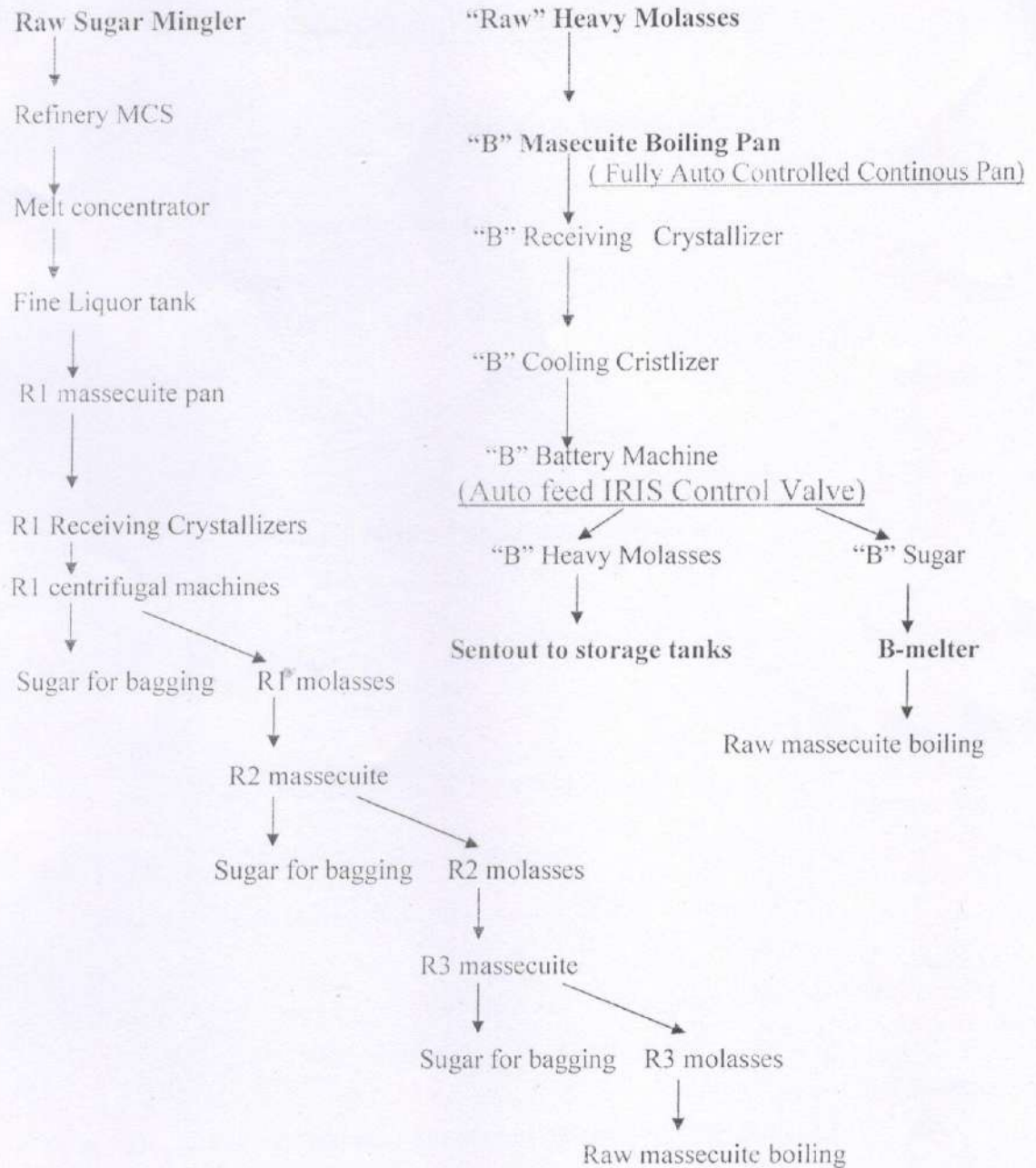
18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

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Process Flow Diagram of the process

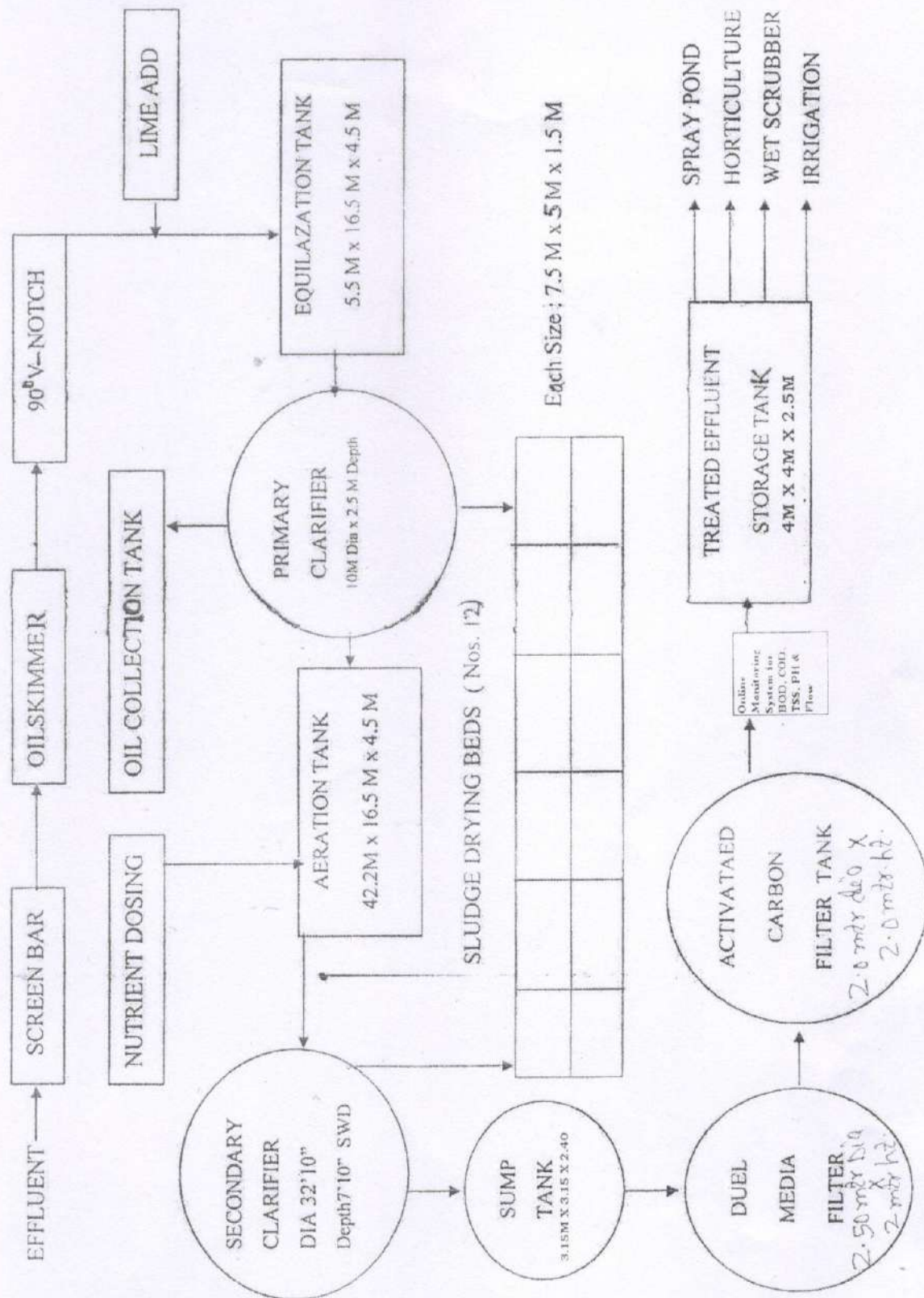






Various instruments also installed in sugar process i.e. digital temperature indicators, digital level indicators, magnetic flow meters, pressure indicators, flow indicators jumbo displays, VFD etc.

FLOW DIAGRAM OF E.T.P.





SHIVA TEST HOUSE

(Serving since 1988)



TC-10582

RECOGNISED AS ENVIRONMENTAL LABORATORY BY MoEFCC, GOVT. OF INDIA, UNDER ENVIRONMENT (PROTECTION) ACT 1986, DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. STH/TR/23-24/4992		Dt: 10.10.2023		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			By Chitrangan Kumar (Lab Representative) of Shiva Test House on 03.10.23			
[d]	Sampling Location			Collected from Borewell Near Guest House			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	33	Humidity (%)	74
[g]	No. & Type of Container			Plastic Bottle (02)			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			BW-4992			
[j]	Sample Condition on Receipt			Fit for Analysis			
[k]	Items required to be tested			As per Contract			
[l]	Date of receiving the sample			04.10.23			
[m]	Analysis Start Date / Analysis Completion Date			04.10.23 / 09.10.23			

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 at 25 °C	--	IS 3025 (Part-11)	6.5	8.5	7.48
5	Turbidity	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	306.0
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	210.0
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	56.9
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	16.5
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.26
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	238.0
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	20.0
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	24.8
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	2.9
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.31

SHIBESHWAR PRASAD

Digitally signed by SHIBESHWAR PRASAD
Date: 2023.10.10
17:28:50 +05'30'

Verified by :

Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2023.10.10
17:32:57 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

-- END OF TEST REPORT --

- This report applies only to sample tested as above.
- Total Liability of our Laboratory is limited to invoiced amount.
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TEST REPORT

Ref. No. STH/TR/23-24/4992(Mcb)		Dt: 10.10.2023		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				By Chitranshu Kumar (Lab Representative) of Shiva Test House on 03.10.23			
[d] Sampling Location				Collected from Borewell Near Guest House			
[e] Method of Sampling				IS 1622			
[f] Sampling Environmental Condition				Temp (°c)	33	Humidity (%)	74
[g] No. & Type of Container				One Sterilized Glass Bottle			
[h] Sample Quantity				250 ml			
[i] Sample Code				BW-4992			
[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				04.10.23			
[n] Analysis Start Date / Analysis Completion Date				04.10.23 / 05.10.23			
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

Mr. Vishal Sharma

Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/7044		Dt: 08.12.2023		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location				Collected from Borewell Near Guest House			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	25	Humidity (%)	72
[g] No. & Type of Container				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				BW-7044			
[j] Sample Condition on Receipt				Fit for Analysis			
[k] Items required to be tested				As per Contract			
[l] Date of receiving the sample				27.11.23			
[m] Analysis Start Date / Analysis Completion Date				27.11.23 / 02.12.23			
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 at 25 °C	--	IS 3025 (Part-11)	6.5	8.5	7.45	
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	298.0	
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	178.0	
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	40.0	
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	0.25	
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	246.0	
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	20.0	
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	22.0	
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	2.17	
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.30	

SHIBESHWAR PRASAD

Digitally signed by
SHIBESHWAR PRASAD
Date: 2023.12.08
12:48:10 +05'30'

Verified by :

Dr. Shibeshwar Prasad
Technical Manager



Shreyase Prasad

Digitally signed by
Shreyasee Prasad
Date: 2023.12.08
12:50:56 +05'30'

Authorized Signatory

Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7044(Mcb)	Dt: 08.12.2023	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		By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location		Collected from Borewell Near Guest House			
[e] Method of Sampling		IS 1622			
[f] Sampling Environmental Condition		Temp (°c)	25	Humidity (%)	72
[g] No. & Type of Container		One Sterilized Glass Bottle			
[h] Sample Quantity		250 ml			
[i] Sample Code		BW-7044			
[j] Sample Condition on Receipt		Fit for analysis			
[k] Items required to be tested		As per request			
[l] Whether any specific Method of Test has been suggested by the customer		No			
[m] Date of receiving the sample in Laboratory		27.11.23			
[n] Analysis Start Date / Analysis Completion Date		27.11.23 / 28.11.23			
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

Mr. Vishal Sharma

Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/7045	Dt: 08.12.2023	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location		Collected from Inlet of ETP			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	25	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle			
[h] Sample Quantity		2 Litres			
[i] Sample Code		E-7045			
[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		27.11.23			
[n] Analysis Start Date / Analysis Completion Date		27.11.23 / 02.12.23			
S. N.	Parameters	Unit	Method of Test		Result
1	pH at 25 °C	----	IS 3025 (Part-11)		6.33
2	Suspended Solids	mg/l.	IS 3025(Part-17)		365.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		5.90
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		960.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		4.90
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		25.2
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		42.6

SHIBESHWAR PRASAD

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SHIBESHWAR PRASAD
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7045(A)		Dt: 08.12.2023		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	25	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7045			
[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				27.11.23			
[n] Analysis Start Date / Analysis Completion Date				27.11.23 / 02.12.23			
S. N.	Parameters	Unit	Method of Test		Result		
1	Total Dissolved Solids	mg/l.	IS 3025(Part-16)		1484.0		



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Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7046	Dt: 08.12.2023	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location		Collected from Outlet of ETP			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	25 Humidity (%) 72		
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)			
[h] Sample Quantity		2 Litres			
[i] Sample Code		E-7046			
[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		27.11.23			
[n] Analysis Start Date / Analysis Completion Date		27.11.23 / 02.12.23			
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	pH at 25 °C	---	IS 3025 (Part-11)	5.5 to 8.5	7.33
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	37.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00	1.0
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	250.00	124.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	5.00	1.0
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	50.00	11.8
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	100.00	20.7



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Technical Manager

Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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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				Treated Effluent sample			
[c] Sample Collected by				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	25	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7046			
[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				27.11.23			
[n] Analysis Start Date / Analysis Completion Date				27.11.23 / 02.12.23			
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)		Not Specified		496.0



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Technical Manager

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7047	Dt: 08.12.2023	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		By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location		Collected from Pond Water			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	25 Humidity (%) 72		
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)			
[h] Sample Quantity		2 Litres			
[i] Sample Code		E-7047			
[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		27.11.23			
[n] Analysis Start Date / Analysis Completion Date		27.11.23 / 02.12.23			
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	pH at 25 °C	---	IS 3025 (Part-11)	5.5 to 8.5	7.24
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	43.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.00	1.0
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	250.00	128.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	5.00	1.12
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	50.00	10.6
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	100.00	17.9

SHIBESHWAR PRASAD

Digitally signed by SHIBESHWAR PRASAD
Date: 2023.12.08
12:49:14 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
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12:52:22 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7047(A)		Dt: 08.12.2023		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location				Collected from Pond Water			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	25	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7047			
[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				27.11.23			
[n] Analysis Start Date / Analysis Completion Date				27.11.23 / 02.12.23			
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)		Not Specified		512.0



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SHIBESHWAR PRASAD
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad

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Shreyasee Prasad
Date: 2023.12.08
12:52:34 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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1. This report applies only to sample tested as above.
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TEST REPORT

Ref. No. STH/TR/23-24/7048		Dt: 08.12.2023		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				Effluent sample			
[c] Sample Collected by				By Chitrangan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[d] Sampling Location				From Aeration Tank			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	25	Humidity (%)	72
[g] No. & Type of Container				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7048			
[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				27.11.23			
[n] Analysis Start Date / Analysis Completion Date				27.11.23 / 02.12.23			
Sl. No.	Parameters			Unit	Method of Test		Result
1.	Mixed Liquor Suspended Solids (MLSS)			mg/l	IS 3025 (Part-24)		2670.0
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)						2360.0



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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7049-7052		Dt: 08.12.2023		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				By Chitranshu Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[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				STH/Equip/64, STH/Equip/41, STH/Equip/65, STH/Equip/42, STH/Equip/67, STH/Equip/43, STH/Equip/64, STH/Equip/41			
[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				27.11.23			
[n] Analysis Start Date / Analysis Completion Date				27.11.23 / 02.12.23			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Main Gate (SC_A-7049)	Near Store (SC_A-7050)	Near Cooling Tower (SC_A-7051)	Near Guest House (SC_A-7052)
Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	78.2	81.0	77.8	74.6
				68.9	77.2	71.6	68.6
				90.7	79.2	75.0	70.7
Particulate Matter (PM _{2.5})	µg / m ³	IS 5182 (Part-24)	60	46.6	41.8	42.0	40.4
				35.3	35.7	34.6	40.4
				40.3	40.6	38.3	41.7
Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	17.8	20.8	17.9	19.9
				12.1	13.8	16.3	15.0
				9.9	11.5	13.0	9.4
				8.9	10.4	11.0	10.5
				12.8	11.5	13.0	15.7
				15.8	15.6	14.9	16.8
Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	37.6	39.7	40.0	38.4
				35.7	35.4	36.0	42.2
				30.2	29.8	28.4	30.6
				25.5	30.5	29.1	28.5
				39.6	34.7	35.2	39.6
				43.0	36.1	33.2	37.0
Average Value							
PM ₁₀	µg / m ³			79.3	79.1	74.8	71.3
PM _{2.5}	µg / m ³			40.7	39.4	38.3	40.9
SO ₂	µg / m ³			12.9	13.9	14.3	14.5
NO ₂	µg / m ³			35.3	34.4	33.7	36.1

SHIBESHWAR PRASAD

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Verified by:
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7053	Dt: 08.12.2023	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 26.11.23	
[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] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/117	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-7053	
[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		27.11.23	
[o] Analysis Start Date / Analysis Completion Date		27.11.23 / 02.12.23	
Parameters		Unit	Method of Test
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 Construction	---		ID Fan
7. Material of Construction	---		M.S.
8. Ambient Temperature	°C		26.0
9. Flue Gas Temperature	°C		114.0
10. Velocity	m/sec.	IS 11255 (Part-3)	7.6
11. Volumetric Flow Rate	NM ³ /hr.		39503.2
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
			Concentration (mg / NM ³)
			39.2
			13.7
			53.7

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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Ref. No. STH/TR/23-24/7054	Dt: 08.12.2023	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 26.11.23		
[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] No. & Type of Container		Thimble & Glass Impinger		
[h] Instrument ID		STH/Equip/117		
[i] Sample Quantity		60 ml		
[j] Sample Code		ST-7054		
[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		27.11.23		
[o] Analysis Start Date / Analysis Completion Date		27.11.23 / 02.12.23		
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		26.0	
9. Flue Gas Temperature	°C		105.0	
10. Velocity	m/sec.		IS 11255 (Part-3)	7.5
11. Volumetric Flow Rate	NM ³ /hr.			104369.7
12. Sampling Point	Meter			19.00 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) 46.5	
14. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified 13.8	
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	IS 11255 (Part-7)	Not Specified 59.7	

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7055	Dt: 08.12.2023	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		By Chitranshu Kumar (Lab Representative) of Shiva Test House on 26.11.23		
[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] No. & Type of Container		Thimble & Glass Impinger		
[h] Instrument ID		STH/Equip/117		
[i] Sample Quantity		60 ml		
[j] Sample Code		ST-7055		
[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		27.11.23		
[o] Analysis Start Date / Analysis Completion Date		27.11.23 / 02.12.23		
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		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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Verified by:
Dr. Shibeshwar Prasad
Technical Manager



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7056		Dt: 08.12.2023		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)	25	Humidity (%)	72
[c]	Details of Sample			Monitoring of Ambient Noise Level within factory periphery			
[d]	Monitored by			By Chitranjan Kumar (Lab Representative) of Shiva Test House on 26.11.23			
[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)	65.3	53.5			
2.	Near Guest house	dB(A)	57.5	47.8			
3.	Near Cooling Tower	dB(A)	62.8	53.8			
4.	Near ETP	dB(A)	65.3	54.7			
5.	Near Sugar Godown	dB(A)	67.0	56.3			
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.						
	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 70.0 dB(A), for Commercial area is 55.0 dB(A), for Residential area is 45.0 dB(A) & for Silence Zone is 40.0 dB(A) in nighttime i.e. 10.00 pm to 6.00 a.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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Date: 2023.12.08
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7845	Dt: 13.01.2024	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	By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23		
[d] Sampling Location	Collected from Borewell Near Guest House		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%) 71
[g] No. & Type of Container	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Sample Code	BW-7845		
[j] Sample Condition on Receipt	Fit for Analysis		
[k] Items required to be tested	As per Contract		
[l] Date of receiving the sample	25.12.23		
[m] Analysis Start Date / Analysis Completion Date	25.12.23 / 30.12.23		

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 at 25 °C	--	IS 3025 (Part-11)	6.5	8.5	7.53
5	Turbidity	NTU	IS 3025 (Part-10)	1.0	5.0	0.87
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	286.0
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	226.0
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	57.7
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	19.9
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.26
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	20.0
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	23.6
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	3.56
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.32

SHIBESHWAR PRASAD

Digitally signed by
SHIBESHWAR PRASAD
Date: 2024.01.13
18:01:20 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by
Shreyasee Prasad
Date: 2024.01.13
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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Contact us :

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TEST REPORT

Ref. No. STH/TR/23-24/7845(Mcb)		Dt: 13.01.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23			
[d] Sampling Location				Collected from Borewell Near Guest House			
[e] Method of Sampling				IS 1622			
[f] Sampling Environmental Condition				Temp (°c)	22	Humidity (%)	71
[g] No. & Type of Container				One Sterilized Glass Bottle			
[h] Sample Quantity				250 ml			
[i] Sample Code				BW-7845			
[j] Sample Condition on Receipt				Fit for analysis			
[k] Items required to be tested				As per request			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				25.12.23			
[n] Analysis Start Date / Analysis Completion Date				25.12.23 / 26.12.23			
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

Mr. Vishal Sharma
 Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/7846	Dt: 13.01.2024	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23.12.23	
[d] Sampling Location		Collected from Upstream of River Kohra	
[e] Method of Sampling		IS 3025, APHA	
[f] Sampling Environmental Condition		Temp. (°C)	22 Humidity (%) 71
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)	
[h] Sample Quantity		2 Litres	
[i] Sample Code		SW-7846	
[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		25.12.23	
[n] Analysis Start Date / Analysis Completion Date		25.12.23 / 30.12.23	

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	7.83
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	45.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500	1500	212.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.1
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	19.0
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
 Digitally signed by SHIBESHWAR PRASAD
 Date: 2024.01.13 18:01:40 +05'30'

Verified by :
Dr. Shibeshwar Prasad
 Technical Manager

Shreyasee Prasad
 Digitally signed by Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
 Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7847	Dt: 13.01.2024	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	By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23.12.23					
[d] Sampling Location	Collected from Downstream of River Kohra					
[e] Method of Sampling	IS 3025, APHA					
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%) 71			
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)					
[h] Sample Quantity	2 Litres					
[i] Sample Code	SW-7847					
[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	25.12.23					
[n] Analysis Start Date / Analysis Completion Date	25.12.23 / 30.12.23					
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	7.69
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	54.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500.0	1500.0	225.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.4
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	32.0
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	20.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	7.7
Class 'A': Drinking water source without conventional treatment but after disinfection						
Class 'C': Drinking water source with conventional treatment followed by disinfection.						



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Verified by :
Dr. Shibeshwar Prasad
 Technical Manager

Shreyasee Prasad
 Digitally signed by Shreyasee Prasad
 Date: 2024.01.13 18:04:37 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
 Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7848		Dt: 13.01.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	22	Humidity (%)	71
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7848			
[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				25.12.23			
[n] Analysis Start Date / Analysis Completion Date				25.12.23 / 30.12.23			
S. N.	Parameters	Unit	Method of Test		Result		
1	pH at 25 °C	----	IS 3025 (Part-11)		6.21		
2	Suspended Solids	mg/l.	IS 3025(Part-17)		365.0		
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		6.3		
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)		340.0		
5	C.O.D.	mg/l.	APHA 5220 B		1056.0		
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.1		
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		26.3		
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		43.1		



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Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7848(A)		Dt: 13.01.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	22	Humidity (%)	71
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7848			
[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				25.12.23			
[n] Analysis Start Date / Analysis Completion Date				25.12.23 / 30.12.23			
S. N.	Parameters	Unit	Method of Test		Result		
1	Total Dissolved Solids	mg/l.	IS 3025(Part-16		1498.0		



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Technical Manager

Shreyasee Prasad

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7849		Dt: 13.01.2024		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				By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23.12.23			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	22	Humidity (%)	71
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7849			
[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				25.12.23			
[n] Analysis Start Date / Analysis Completion Date				25.12.23 / 30.12.23			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH at 25 °C	---	IS 3025 (Part-11)		5.5 to 8.5		7.37
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		43.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		10.00		1.1
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		250.00		116.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.00		1.1
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		50.00		12.3
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		100.00		20.2



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Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7849(A)	Dt: 13.01.2024	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	By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23.12.23				
[d] Sampling Location	Collected from Outlet of ETP				
[e] Method of Sampling	IS 3025, APHA				
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%) 71		
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)				
[h] Sample Quantity	2 Litres				
[i] Sample Code	E-7849				
[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	25.12.23				
[n] Analysis Start Date / Analysis Completion Date	25.12.23 / 30.12.23				
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)	Not Specified	512.0



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Dr. Shibeshwar Prasad
Technical Manager

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7850		Dt: 13.01.2024		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			By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23			
[d]	Sampling Location			From Aeration Tank			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	22	Humidity (%)	71
[g]	No. & Type of Container			Plastic Bottle			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			E-7850			
[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			25.12.23			
[n]	Analysis Start Date / Analysis Completion Date			25.12.23 / 30.12.23			
Sl. No.	Parameters	Unit	Method of Test			Result	
1.	Mixed Liquor Suspended Solids (MLSS)	mg/l	IS 3025 (Part-24)			2770.0	
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)					2460.0	



SHIBESHWAR PRASAD

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TC-10582

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TEST REPORT

Ref. No. STH/TR/23-24/7851		Dt: 13.01.2024		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				By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23			
[d] Sampling Location				Collected from Pond Water			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	22	Humidity (%)	22
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7851			
[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				25.12.23			
[n] Analysis Start Date / Analysis Completion Date				25.12.23 / 30.12.23			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH at 25 °C	---	IS 3025 (Part-11)		5.5 to 8.5		7.27
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		39.0
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		16.0
5	C.O.D.	mg/l.	APHA 5220 B		250.00		120.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.00		1.02
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		50.00		10.1
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		100.00		17.4



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Dr. Shibeshwar Prasad
Technical Manager

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7851(A)		Dt: 13.01.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23			
[d] Sampling Location				Collected from Pond Water			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	22	Humidity (%)	71
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7851			
[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				25.12.23			
[n] Analysis Start Date / Analysis Completion Date				25.12.23 / 30.12.23			
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)		Not Specified		526.0



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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7852-7855	Dt: 13.01.2024	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	By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23						
[d] Sampling Location	Premises of Sugar Mill						
[e] Method of Sampling	IS 5182 (Part - 14)						
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%)				
[g] Details of Sample Container (No. & Type of Container)	Filter Paper; Glass Impinger						
[h] Instrument ID	STH/Equip/55, STH/Equip/116, STH/Equip/57, STH/Equip/39, STH/Equip/58, STH/Equip/40, STH/Equip/64, STH/Equip/41						
[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	25.12.23						
[n] Analysis Start Date / Analysis Completion Date	25.12.23 / 30.12.23						
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Main Gate (SC_A-7852)	Near Guest House (SC_A-7853)	Near Store (SC_A-7854)	Near Cooling Tower (SC_A-7855)
Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	80.3 64.6 77.4	78.0 63.5 72.3	78.6 64.6 75.7	76.4 63.5 70.6
Particulate Matter (PM _{2.5})	µg / m ³	IS 5182 (Part-24)	60	43.9 31.4 40.2	41.3 31.3 40.1	41.4 31.4 40.2	41.3 31.3 42.6
Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	15.8 12.1 7.9 9.9 12.8 14.8	15.8 14.1 9.9 8.9 14.8 17.8	15.8 14.1 7.9 9.9 12.8 14.8	15.8 14.1 9.9 8.9 11.9 16.8
Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	40.3 39.1 26.2 23.5 36.3 38.9	41.6 38.4 23.5 22.2 31.6 36.9	40.3 35.7 26.2 23.5 36.3 38.9	38.9 35.7 23.5 22.2 31.6 36.9
Average Value							
PM ₁₀	µg / m ³			74.1	71.3	73.0	70.2
PM _{2.5}	µg / m ³			38.5	37.6	37.7	38.4
SO ₂	µg / m ³			12.2	13.5	12.6	12.9
NO ₂	µg / m ³			34.0	32.4	33.5	31.5

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7856	Dt: 13.01.2024	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		By Chitrnanjan Kumar (Lab Representative) of Shiva Test House on 23.12.23	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	22 Humidity (%) 71
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/117	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-7856	
[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		25.12.23	
[o] Analysis Start Date / Analysis Completion Date		25.12.23 / 30.12.23	
Parameters	Unit	Method of Test	Results
1. Type of Fuel	---	IS 11255 (Part-3)	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		27.0
9. Flue Gas Temperature	°C		95.0
10. Velocity	m/sec.		7.3
11. Volumetric Flow Rate	NM ³ /hr.		40402.1
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

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7857	Dt: 13.01.2024	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		By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	22 Humidity (%) 71
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/117	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-7857	
[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		25.12.23	
[o] Analysis Start Date / Analysis Completion Date		25.12.23 / 30.12.23	
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		27.0
9. Flue Gas Temperature	°C		85.0
10. Velocity	m/sec.	IS 11255 (Part-3)	7.4
11. Volumetric Flow Rate	NM ³ /hr.		113751.4
12. Sampling Point	Meter		19.00 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)
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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Technical Manager



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Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7858	Dt: 13.01.2024	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	By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23		
[d] Sampling Location	Premises of Sugar Mill		
[e] Method of Sampling	IS 5182 (Part - 14)		
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%) 71
[g] No. & Type of Container	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/117		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-7858		
[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	25.12.23		
[o] Analysis Start Date / Analysis Completion Date	25.12.23 / 30.12.23		
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		27.0
9. Flue Gas Temperature	°C		109.0
10. Velocity	m/sec.		7.7
11. Volumetric Flow Rate	NM ³ /hr.	105660.0	
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) 45.2
14. Sulphur Dioxide (SO ₂)	mg / NM ³	Not Specified	Not Specified 8.4
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	Not Specified	Not Specified 57.4

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Dr. Shibeshwar Prasad
Technical Manager



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TEST REPORT

Ref. No. STH/TR/23-24/7859	Dt: 13.01.2024	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)	22	Humidity (%) 71
[c] Details of Sample	Monitoring of Ambient Noise Level within factory periphery		
[d] Monitored by	By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.12.23		
[e] Items required to be tested	As per contract		
[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)	65.9 52.6
2.	Near Guest house	dB(A)	64.6 52.3
3.	Near Cooling Tower	dB(A)	67.2 50.8
4.	Near ETP	dB(A)	64.7 55.7
5.	Near Sugar Godown	dB(A)	59.4 51.9
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. The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 70.0 dB(A), for Commercial area is 55.0 dB(A), for Residential area is 45.0 dB(A) & for Silence Zone is 40.0 dB(A) in nighttime i.e. 10.00 pm to 6.00 a.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
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.01.13
18:03:53 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.01.13
18:07:11 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8944		Dt: 10.02.2024		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)	19	Humidity (%)	70
[c]	Details of Sample			Monitoring of Ambient Noise Level within factory periphery			
[d]	Monitored by			By Chitranjan Kumar (Lab Representative) of Shiva Test House on 29.01.24			
[e]	Items required to be tested			As per contract			
[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)	69.5	54.8			
2.	Near Guest house	dB(A)	64.6	50.3			
3.	Near Cooling Tower	dB(A)	67.7	58.4			
4.	Near ETP	dB(A)	64.7	56.2			
5.	Near Sugar Godown	dB(A)	59.7	49.9			
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.							
The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 70.0 dB(A), for Commercial area is 55.0 dB(A), for Residential area is 45.0 dB(A) & for Silence Zone is 40.0 dB(A) in nighttime i.e. 10.00 pm to 6.00 a.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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Date: 2024.02.10
15:52:10 +05'30'

Verified by:
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10
15:57:01 +05'30'
Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8930	Dt: 10.02.2024	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	By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24		
[d] Sampling Location	Collected from Borewell Near Guest House		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	19	Humidity (%) 70
[g] No. & Type of Container	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Sample Code	BW-8930		
[j] Sample Condition on Receipt	Fit for Analysis		
[k] Items required to be tested	As per Contract		
[l] Date of receiving the sample	29.01.24		
[m] Analysis Start Date / Analysis Completion Date	29.01.24 / 03.02.24		

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 at 25 °C	--	IS 3025 (Part-11)	6.5	8.5	7.43
5	Turbidity	NTU	IS 3025 (Part-10)	1.0	5.0	0.82
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	288.0
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	178.0
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	41.6
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	18.0
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.27
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	248.0
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	22.0
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.0	20.9
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	2.17
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.27

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10 15:48:29 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10 15:53:04 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8930(Mcb)	Dt: 10.02.2024	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	By Chitranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24				
[d] Sampling Location	Collected from Borewell Near Guest House				
[e] Method of Sampling	IS 1622				
[f] Sampling Environmental Condition	Temp (°C)	19	Humidity (%) 70		
[g] No. & Type of Container	One Sterilized Glass Bottle				
[h] Sample Quantity	250 ml				
[i] Sample Code	BW-8930				
[j] Sample Condition on Receipt	Fit for analysis				
[k] Items required to be tested	As per request				
[l] Whether any specific Method of Test has been suggested by the customer	No				
[m] Date of receiving the sample in Laboratory	29.01.24				
[n] Analysis Start Date / Analysis Completion Date	29.01.24 / 30.01.24				
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
Mr. Vishal Sharma
Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/8931	Dt: 10.02.2024	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	By Chitrangan Kumar (Lab Representative) of Shiva Test House on 27.01.24					
[d] Sampling Location	Collected from Upstream of River Kohra					
[e] Method of Sampling	IS 3025, APHA					
[f] Sampling Environmental Condition	Temp. (°C)	19	Humidity (%) 70			
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)					
[h] Sample Quantity	2 Litres					
[i] Sample Code	SW-8931					
[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	29.01.24					
[n] Analysis Start Date / Analysis Completion Date	29.01.24 / 03.02.24					
S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result
				For Class 'A'	For Class 'C'	
1.	pH at 25 °C	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.79
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	232.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.5
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	32.0
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	24.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	6.8
Class 'A': Drinking water source without conventional treatment but after disinfection						
Class 'C': Drinking water source with conventional treatment followed by disinfection.						

SHIBESHWAR PRASAD

Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10
15:48:49 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2024.02.10
15:53:32 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8932	Dt: 10.02.2024	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	By Chitrnanjan Kumar (Lab Representative) of Shiva Test House on 27.01.24					
[d] Sampling Location	Collected from Downstream of River Kohra					
[e] Method of Sampling	IS 3025, APHA					
[f] Sampling Environmental Condition	Temp. (°C)	19	Humidity (%) 70			
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)					
[h] Sample Quantity	2 Litres					
[i] Sample Code	SW-8932					
[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	29.01.24					
[n] Analysis Start Date / Analysis Completion Date	29.01.24 / 03.02.24					
S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result
				For Class 'A'	For Class 'C'	
1.	pH at 25 °C	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.67
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	68.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500.0	1500.0	258.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.8
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	36.0
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	25.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	6.5
Class 'A': Drinking water source without conventional treatment but after disinfection						
Class 'C': Drinking water source with conventional treatment followed by disinfection.						

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10
15:48:59 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8933		Dt: 10.02.2024		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				By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	19	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-8933			
[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				29.01.24			
[n] Analysis Start Date / Analysis Completion Date				29.01.24 / 03.02.24			
S. N.	Parameters	Unit	Method of Test		Result		
1	pH at 25 °C	----	IS 3025 (Part-11)		6.12		
2	Suspended Solids	mg/l.	IS 3025(Part-17)		315.0		
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		6.0		
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		1008.0		
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		4.9		
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)		38.1		



SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10
15:49:09 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8933(A)		Dt: 10.02.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	19	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-8933			
[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				29.01.24			
[n] Analysis Start Date / Analysis Completion Date				29.01.24 / 03.02.24			
S. N.	Parameters	Unit	Method of Test		Result		
1	Total Dissolved Solids	mg/l.	IS 3025(Part-16		1536.0		



SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10
15:49:19 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8934		Dt: 10.02.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	19	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-8934			
[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				29.01.24			
[n] Analysis Start Date / Analysis Completion Date				29.01.24 / 03.02.24			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH at 25 °C	---	IS 3025 (Part-11)		5.5 to 8.5		7.3
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		35.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		10.00		1.0
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		250.00		128.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.00		1.2
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		50.00		11.1
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		100.00		19.0



SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10 15:49:33 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10 15:54:34 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8934(A)		Dt: 10.02.2024		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				By Chitrangan Kumar (Lab Representative) of Shiva Test House on 27.01.24			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	19	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-8934			
[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				29.01.24			
[n] Analysis Start Date / Analysis Completion Date				29.01.24 / 03.02.24			
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)		Not Specified		484.0



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Dr. Shibeshwar Prasad
Technical Manager

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8935		Dt: 10.02.2024		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			By Chitranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24			
[d]	Sampling Location			From Aeration Tank			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	19	Humidity (%)	70
[g]	No. & Type of Container			Plastic Bottle			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			E-8935			
[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			29.01.24			
[n]	Analysis Start Date / Analysis Completion Date			29.01.24 / 03.02.24			
Sl. No.	Parameters		Unit	Method of Test		Result	
1.	Mixed Liquor Suspended Solids (MLSS)		mg/l	IS 3025 (Part-24)		2830.0	
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)					2540.0	



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8936		Dt: 10.02.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24			
[d] Sampling Location				Collected from Pond Water			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	19	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-8936			
[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				29.01.24			
[n] Analysis Start Date / Analysis Completion Date				29.01.24 / 03.02.24			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH at 25 °C	---	IS 3025 (Part-11)		5.5 to 8.5		7.31
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		37.0
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		250.00		116.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.00		1.0
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		50.00		10.6
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		100.00		16.8

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Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8936(A)	Dt: 10.02.2024	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	By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24				
[d] Sampling Location	Collected from Pond Water				
[e] Method of Sampling	IS 3025, APHA				
[f] Sampling Environmental Condition	Temp. (°C)	19	Humidity (%) 70		
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)				
[h] Sample Quantity	2 Litres				
[i] Sample Code	E-8936				
[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	29.01.24				
[n] Analysis Start Date / Analysis Completion Date	29.01.24 / 03.02.24				
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)	Not Specified	508.0



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8937-8940		Dt: 10.02.2024		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				Monitoring of Ambient Air Quality			
[c] Sample Collected by				By Chitrnanjan Kumar (Lab Representative) of Shiva Test House on 27.01.24			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)		19	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)				Filter Paper; Glass Impinger			
[h] Instrument ID				STH/Equip/64, STH/Equip/41, STH/Equip/65, STH/Equip/42, STH/Equip/67, STH/Equip/43, STH/Equip/64, STH/Equip/41			
[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				29.01.24			
[n] Analysis Start Date / Analysis Completion Date				29.01.24 / 03.02.24			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Main Gate (SC_A-8937)	Near Guest House (SC_A-8938)	Near Store (SC_A-8939)	Near Cooling Tower (SC_A-8940)
Particulate Matter (PM ₁₀)	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-23)	100	78.2	74.5	74.8	72.9
				68.9	73.7	68.3	65.4
				87.3	75.9	70.1	67.4
Particulate Matter (PM _{2.5})	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-24)	60	42.8	39.4	39.5	40.4
				35.3	33.2	33.3	34.1
				40.3	36.9	38.3	39.2
Sulphur Dioxide as SO ₂	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-2)	80	15.8	20.8	15.9	14.7
				11.1	13.8	13.2	13.9
				8.9	11.5	12.0	9.4
				8.9	10.4	11.0	10.5
				11.9	13.5	12.0	12.6
Nitrogen Dioxide as NO ₂	$\mu\text{g} / \text{m}^3$	IS 5182 (Part-6)	80	13.8	16.7	14.0	15.7
				37.6	39.7	39.3	38.4
				35.7	35.4	36.0	37.1
				30.2	29.8	28.4	30.6
				25.5	33.3	29.1	28.5
Average Value				35.6	36.1	36.6	35.3
				38.9	39.7	40.0	37.0
PM ₁₀	$\mu\text{g} / \text{m}^3$			78.2	74.7	71.0	68.6
PM _{2.5}	$\mu\text{g} / \text{m}^3$			39.5	36.5	37.0	37.9
SO ₂	$\mu\text{g} / \text{m}^3$			11.7	14.5	13.0	12.8
NO ₂	$\mu\text{g} / \text{m}^3$			33.9	35.7	34.9	34.5

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10 15:51:01 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10 15:55:48 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8941		Dt: 10.02.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 27.01.24			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)	19	Humidity (%)	70
[g] No. & Type of Container				Thimble & Glass Impinger			
[h] Instrument ID				STH/Equip/117			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-8941			
[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				29.01.24			
[o] Analysis Start Date / Analysis Completion Date				29.01.24 / 03.02.24			
Parameters			Unit	Method of Test		Results	
1. Type of Fuel			---	IS 11255 (Part-3)		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			19.0	
9. Flue Gas Temperature			°C			114.0	
10. Velocity			m/sec.			7.5	
11. Volumetric Flow Rate			NM³/hr.			39395.0	
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)	39.6	
14. Sulphur Dioxide (SO₂)			mg / NM³	IS 11255 (Part-2)	Not Specified	11.1	
15. Oxides of Nitrogen (NO₂)			mg / NM³	IS 11255 (Part-7)	Not Specified	62.1	

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Technical Manager



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8942	Dt: 10.02.2024	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		By Chitranjan Kumar (Lab Representative) of Shiva Test House on 29.01.24	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	19 Humidity (%) 70
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/117	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-8942	
[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		29.01.24	
[o] Analysis Start Date / Analysis Completion Date		29.01.24 / 03.02.24	

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		19.0	
9. Flue Gas Temperature	°C		85.0	
10. Velocity	m/sec.		IS 11255 (Part-3)	7.4
11. Volumetric Flow Rate	NM ³ /hr.		109325.5	
12. Sampling Point	Meter		19.00 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)	43.1
14. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified	11.8
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	IS 11255 (Part-7)	Not Specified	56.1

SHIBESHWAR PRASAD Digitally signed by SHIBESHWAR PRASAD Date: 2024.02.10 15:51:23 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad Digitally signed by Shreyasee Prasad Date: 2024.02.10 15:56:27 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8943	Dt: 10.02.2024	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		By Chitranshu Kumar (Lab Representative) of Shiva Test House on 29.01.24	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	19 Humidity (%) 70
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/117	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-8943	
[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		29.01.24	
[o] Analysis Start Date / Analysis Completion Date		29.01.24 / 03.02.24	
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		19.0
9. Flue Gas Temperature	°C		105.0
10. Velocity	m/sec.		7.5
11. Volumetric Flow Rate	NM ³ /hr.	108514.3	
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)
14. Sulphur Dioxide (SO ₂)	mg / NM ³	Not Specified	Not Specified
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	Not Specified	Not Specified

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9704		Dt: 09.03.2024		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			By Chitrnanjan Kumar (Lab Representative) of Shiva Test House on 23.02.24			
[d]	Sampling Location			Collected from Borewell Near Guest House			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	26	Humidity (%)	55
[g]	No. & Type of Container			Plastic Bottle (02)			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			BW-9704			
[j]	Sample Condition on Receipt			Fit for Analysis			
[k]	Items required to be tested			As per Contract			
[l]	Date of receiving the sample			26.02.24			
[m]	Analysis Start Date / Analysis Completion Date			26.02.24 / 02.03.24			
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 at 25 °C	--	IS 3025 (Part-11)	6.5	8.5	7.43	
5	Turbidity	NTU	IS 3025 (Part-10)	1.0	5.0	0.84	
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	312.0	
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	188.0	
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	42.5	
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	19.9	
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.27	
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	252.0	
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.0	24.0	
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	2.48	
16	Fluoride as F	mg/l.	APHA 4500 (F D)	1.0	1.5	0.29	



Shibeswar Prasad
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9704(Mcb)	Dt:09.03.2024	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	By Chitranshu Kumar (Lab Representative) of Shiva Test House on 23.02.24				
[d] Sampling Location	Collected from Borewell Near Guest House				
[e] Method of Sampling	IS 1622				
[f] Sampling Environmental Condition	Temp (°C)	26	Humidity (%) 55		
[g] No. & Type of Container	One Sterilized Glass Bottle				
[h] Sample Quantity	250 ml				
[i] Sample Code	BW-9704				
[j] Sample Condition on Receipt	Fit for analysis				
[k] Items required to be tested	As per request				
[l] Whether any specific Method of Test has been suggested by the customer	No				
[m] Date of receiving the sample in Laboratory	26.02.24				
[n] Analysis Start Date / Analysis Completion Date	26.02.24 / 27.02.24				
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
Mr. Vishal Sharma

Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/9705	Dt: 09.03.2024	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	By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23.02.24		
[d] Sampling Location	Collected from Upstream of River Kohra		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 55
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Sample Code	SW-9705		
[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	26.02.24		
[n] Analysis Start Date / Analysis Completion Date	26.02.24 / 02.03.24		

S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result
				For Class 'A'	For Class 'C'	
1.	pH at 25 °C	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.92
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	76.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500	1500	248.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.3
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	20.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	6.6

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

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

Shibeswar
Prasad

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Shibeswar Prasad
Date: 2024.03.09
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9706	Dt: 09.03.2024	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	By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 23.02.24					
[d] Sampling Location	Collected from Downstream of River Kohra					
[e] Method of Sampling	IS 3025, APHA					
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 55			
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)					
[h] Sample Quantity	2 Litres					
[i] Sample Code	SW-9706					
[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	26.02.24					
[n] Analysis Start Date / Analysis Completion Date	26.02.24 / 02.03.24					
S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result
				For Class 'A'	For Class 'C'	
1.	pH at 25 °C	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.76
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	87.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500.0	1500.0	266.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.7
5.	C.O.D.	mg/l.	APHA (5220 B)	Not Specified	Not Specified	32.0
6.	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	600.0	23.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	6.2
Class 'A': Drinking water source without conventional treatment but after disinfection						
Class 'C': Drinking water source with conventional treatment followed by disinfection.						

Shibeswar Prasad

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9707		Dt: 09.03.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.02.24			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	55
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-9707			
[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				26.02.24			
[n] Analysis Start Date / Analysis Completion Date				26.02.24 / 02.03.24			
S. N.	Parameters	Unit	Method of Test		Result		
1	pH at 25 °C	----	IS 3025 (Part-11)		5.84		
2	Suspended Solids	mg/l.	IS 3025(Part-17)		381.0		
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		6.2		
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		1040.0		
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.2		
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		1.25		
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		25.2		

Shibeswar
r Prasad

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Verified by:
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9707(A)		Dt: 09.03.2024		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				By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23.02.24			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	55
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-9707			
[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				26.02.24			
[n] Analysis Start Date / Analysis Completion Date				26.02.24 / 02.03.24			
S. N.	Parameters	Unit	Method of Test		Result		
1	Total Dissolved Solids	mg/l.	IS 3025(Part-16)		1484.0		



Shibeswar
Prasad

Digitally signed by
Shibeswar Prasad
Date: 2024.03.09
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee
Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9708		Dt: 09.03.2024		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				By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 23.02.24			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	55
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-9708			
[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				26.02.24			
[n] Analysis Start Date / Analysis Completion Date				26.02.24 / 02.03.24			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH at 25 °C	---	IS 3025 (Part-11)		5.5 to 8.5		7.35
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		41.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		10.00		1.2
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		250.00		132.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.00		1.4
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		50.00		0.53
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		100.00		12.3



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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee
Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9708(A)		Dt: 09.03.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 23.02.24			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	55
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-9708			
[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				26.02.24			
[n] Analysis Start Date / Analysis Completion Date				26.02.24 / 02.03.24			
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)		Not Specified		512.0



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Technical Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9709		Dt: 09.03.2024		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				By Chitranshu Kumar (Lab Representative) of Shiva Test House on 23.02.24			
[d] Sampling Location				From Aeration Tank			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	55
[g] No. & Type of Container				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-9709			
[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				26.02.24			
[n] Analysis Start Date / Analysis Completion Date				26.02.24 / 02.03.24			
Sl. No.	Parameters			Unit	Method of Test		Result
1.	Mixed Liquor Suspended Solids (MLSS)			mg/l	IS 3025 (Part-24)		2610.0
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)						2320.0



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TEST REPORT

Ref. No. STH/TR/23-24/9710-9713		Dt: 09.03.2024		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				By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 23.02.24			
[d] Sampling Location				Premises of Sugar Mill			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)		26 Humidity (%) 55	
[g] Details of Sample Container (No. & Type of Container)				Filter Paper; Glass Impinger			
[h] Instrument ID				STH/Equip/83, STH/Equip/70, STH/Equip/84, STH/Equip/71, STH/Equip/85, STH/Equip/72, STH/Equip/97, STH/Equip/73			
[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				26.02.24			
[n] Analysis Start Date / Analysis Completion Date				26.02.24 / 02.03.24			
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result			
				Near Main Gate (SC_A-9710)	Near Guest House (SC_A-9711)	Near Store (SC_A-9712)	Near Cooling Tower (SC_A-9713)
Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	75.2 70.1 74.1	73.4 66.3 69.2	72.4 64.2 70.0	69.2 64.8 69.3
Particulate Matter (PM _{2.5})	µg / m ³	IS 5182 (Part-24)	60	40.5 36.7 41.8	40.3 32.8 39.1	38.9 36.4 40.2	38.8 35.1 37.6
Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	15.1 13.4 8.1 10.1 12.1 14.1	17.8 13.1 8.9 9.9 13.8 16.8	15.8 12.1 9.9 10.9 12.8 15.8	15.8 11.1 9.9 8.9 12.8 16.8
Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	39.7 39.1 28.7 29.4 39.0 42.4	36.9 36.3 28.2 28.9 34.9 36.3	41.0 39.1 27.5 31.6 36.9 39.6	39.6 36.3 23.5 28.9 36.3 38.3
Average Value							
PM ₁₀	µg / m ³			73.1	69.6	68.9	67.7
PM _{2.5}	µg / m ³			39.7	37.4	38.5	37.2
SO ₂	µg / m ³			12.1	13.4	12.9	12.6
NO ₂	µg / m ³			36.4	33.6	35.9	33.8

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Dr. Shibeshwar Prasad
Technical Manager



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Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9714	Dt: 09.03.2024	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23.02.24	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	26 Humidity (%) 55
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/117	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-9714	
[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		26.02.24	
[o] Analysis Start Date / Analysis Completion Date		26.02.24 / 02.03.24	
Parameters		Unit	Method of Test
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 Construction	---		ID Fan
7. Material of Construction	---		M.S.
8. Ambient Temperature	°C		26.0
9. Flue Gas Temperature	°C		121.0
10. Velocity	m/sec.	IS 11255 (Part-3)	7.5
11. Volumetric Flow Rate	NM³/hr.		38363.9
12. Sampling Point	Meter		11.00 M.
			Limit as per E (P) Rules Schedule I
13. Particulate Matter (P.M.)	mg / NM³	IS 11255 (Part-1)	500.00 mg / NM³ (12% CO₂)
14. Sulphur Dioxide (SO₂)	mg / NM³	IS 11255 (Part-2)	Not Specified
15. Oxides of Nitrogen (NO₂)	mg / NM³	IS 11255 (Part-7)	Not Specified
			Concentration (mg / NM³)
			41.7
			9.4
			59.7

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Technical Manager



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TEST REPORT

Ref. No. STH/TR/23-24/9715	Dt: 09.03.2024	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23.02.24			
[d] Sampling Location		Premises of Sugar Mill			
[e] Method of Sampling		IS 5182 (Part - 14)			
[f] Sampling Environmental Condition		Temp. (°C)	26 Humidity (%) 55		
[g] No. & Type of Container		Thimble & Glass Impinger			
[h] Instrument ID		STH/Equip/117			
[i] Sample Quantity		60 ml			
[j] Sample Code		ST-9715			
[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		26.02.24			
[o] Analysis Start Date / Analysis Completion Date		26.02.24 / 02.03.24			
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 Construction		----		ID Fan	
7. Material of Construction		----		M.S.	
8. Ambient Temperature		°C		26.0	
9. Flue Gas Temperature		°C		117.0	
10. Velocity		m/sec.	IS 11255 (Part-3)	7.9	
11. Volumetric Flow Rate		NM³/hr.		106288.5	
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)	49.6
14. Sulphur Dioxide (SO₂)		mg / NM³	IS 11255 (Part-2)	Not Specified	10.1
15. Oxides of Nitrogen (NO₂)		mg / NM³	IS 11255 (Part-7)	Not Specified	54.4

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Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9716	Dt: 09.03.2024	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	By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 23.02.24		
[d] Sampling Location	Premises of Sugar Mill		
[e] Method of Sampling	IS 5182 (Part - 14)		
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%)
[g] No. & Type of Container	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/117		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-9716		
[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	26.02.24		
[o] Analysis Start Date / Analysis Completion Date	26.02.24 / 02.03.24		

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 Construction	---		ID Fan	
7. Material of Construction	---		RCC	
8. Ambient Temperature	°C		26.0	
9. Flue Gas Temperature	°C		118.0	
10. Velocity	m/sec.		7.8	
11. Volumetric Flow Rate	NM ³ /hr.		108584.2	
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)	48.6
14. Sulphur Dioxide (SO ₂)	mg / NM ³	Not Specified	Not Specified	9.9
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	Not Specified	Not Specified	52.2

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TEST REPORT

Ref. No. STH/TR/23-24/9717		Dt: 09.03.2024		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 (%)	55	
[c] Details of Sample			Monitoring of Ambient Noise Level within factory periphery				
[d] Monitored by			By Chitrangan Kumar (Lab Representative) of Shiva Test House on 23/24.02.24				
[e] Items required to be tested			As per contract				
[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)	65.9	55.4			
2.	Near Guest house	dB(A)	64.6	51.6			
3.	Near Cooling Tower	dB(A)	67.4	60.1			
4.	Near ETP	dB(A)	64.3	54.4			
5.	Near Sugar Godown	dB(A)	59.2	50.7			
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.							
The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 70.0 dB(A), for Commercial area is 55.0 dB(A), for Residential area is 45.0 dB(A) & for Silence Zone is 40.0 dB(A) in nighttime i.e. 10.00 pm to 6.00 a.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.							

Shibeswar
Prasad

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Date: 2024.03.09 15:44:36 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Shreyasee Prasad
Date: 2024.03.09
13:54:05 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10251	Dt: 23.03.2024	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	By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 09.03.24		
[d] Sampling Location	Collected from Borewell Near Guest House		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%) 60
[g] No. & Type of Container	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Sample Code	BW-10251		
[j] Sample Condition on Receipt	Fit for Analysis		
[k] Items required to be tested	As per Contract		
[l] Date of receiving the sample	11.03.24		
[m] Analysis Start Date / Analysis Completion Date	11.03.24 / 16.03.24		

S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results
				Acceptable Limit	Permissible Limit in the absence of alternative source	
		Hazen	IS 3025 (Part-4)	5	15	<5.0
1	Colour	--	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable
2	Odour	--	IS 3025 (Part-7)	Agreeable	Agreeable	Agreeable
3	Taste	--	IS 3025 (Part-11)	6.5	8.5	7.55
4	pH at 25 °C	--	IS 3025 (Part-10)	1.0	5.0	0.84
5	Turbidity	NTU	IS 3025 (Part-16)	500.0	2000.0	302.0
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-21)	200.0	600.0	208.0
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-40)	75.0	200.0	54.5
8	Calcium as Ca	mg/l.	IS 3025 (Part-46)	30.0	100.0	17.5
9	Magnesium as Mg	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.25
10	Iron as Fe	mg/l.	IS 3025 (Part-26)	0.2	1	<0.01
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-23)	200.0	600.0	246.0
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-32)	250.0	1000.0	22.0
13	Chloride as Cl	mg/l.	IS 3025 (Part-24)	200.0	400.0	24.3
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	2.77
15	Nitrate as NO ₃	mg/l.	APHA 4500 (F D)	1.0	1.5	0.27
16	Fluoride as F	mg/l.				

Shibeswar
Prasad

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10251(Mcb)	Dt: 23.03.2024	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	By Chitrangan Kumar (Lab Representative) of Shiva Test House on 09.03.24				
[d] Sampling Location	Collected from Borewell Near Guest House				
[e] Method of Sampling	IS 1622				
[f] Sampling Environmental Condition	Temp (°C)	29	Humidity (%) 60		
[g] No. & Type of Container	One Sterilized Glass Bottle				
[h] Sample Quantity	250 ml				
[i] Sample Code	BW-10251				
[j] Sample Condition on Receipt	Fit for analysis				
[k] Items required to be tested	As per request				
[l] Whether any specific Method of Test has been suggested by the customer	No				
[m] Date of receiving the sample in Laboratory	11.03.24				
[n] Analysis Start Date / Analysis Completion Date	11.03.24 / 12.03.24				
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
Mr. Vishal Sharma

Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/10252	Dt: 23.03.2024	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 09.03.24	
[d] Sampling Location		Collected from Upstream of River Kohra	
[e] Method of Sampling		IS 3025, APHA	
[f] Sampling Environmental Condition		Temp. (°C)	29 Humidity (%) 60
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)	
[h] Sample Quantity		2 Litres	
[i] Sample Code		SW-10252	
[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		11.03.24	
[n] Analysis Start Date / Analysis Completion Date		11.03.24 / 16.03.24	

S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result
				For Class 'A'	For Class 'C'	
1.	pH at 25 °C	---	IS 3025 (Part-11)	6.5 - 8.5	6.5 - 8.5	7.84
2.	Total Suspended Solids	mg/l.	IS 3025(Part-17)	Not Specified	Not Specified	85.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500	1500	236.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.4
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	23.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	6.9

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

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

Shibeswar Prasad

Digitally signed by Shibeswar Prasad
Date: 2024.03.23
11:27:19 +05'30'

Verified by:

Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2024.03.23
11:31:09 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10253	Dt: 23.03.2024	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	By Chitrangan Kumar (Lab Representative) of Shiva Test House on 09.03.24					
[d] Sampling Location	Collected from Downstream of River Kohra					
[e] Method of Sampling	IS 3025, APHA					
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%) 60			
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)					
[h] Sample Quantity	2 Litres					
[i] Sample Code	SW-10253					
[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	11.03.24					
[n] Analysis Start Date / Analysis Completion Date	11.03.24 / 16.03.24					
S. No.	Parameters	Unit	Method of Test	Tolerance Limit as per IS 2296-1982		Result
				For Class 'A'	For Class 'C'	
1.	pH at 25 °C	---	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	93.0
3.	Total Dissolved Solids	mg/l.	IS 3025 (Part-16)	500.0	1500.0	253.0
4.	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	2.0	3.0	2.8
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	24.0
7.	Dissolved Oxygen	mg/l.	IS 3025 (Part-38)	6.0	4.0	6.5
Class 'A': Drinking water source without conventional treatment but after disinfection						
Class 'C': Drinking water source with conventional treatment followed by disinfection.						

Shibeswar Prasad

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Shibeswar Prasad
Date: 2024.03.23
11:27:29 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
Date: 2024.03.23
11:31:31 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10254		Dt: 23.03.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 09.03.24			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	29	Humidity (%)	60
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-10254			
[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				11.03.24			
[n] Analysis Start Date / Analysis Completion Date				11.03.24 / 16.03.24			
S. N.	Parameters	Unit	Method of Test		Result		
1	pH at 25 °C	----	IS 3025 (Part-11)		5.94		
2	Suspended Solids	mg/l.	IS 3025(Part-17)		347.0		
3	Oil & Grease	mg/l.	IS 3025 (Part-39)		6.1		
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		1072.0		
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.1		
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		26.9		
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		41.4		

Shibeswar
Prasad

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11:27:39 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10254(A)		Dt: 23.03.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 09.03.24			
[d] Sampling Location				Collected from Inlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	29	Humidity (%)	60
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-10254			
[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				11.03.24			
[n] Analysis Start Date / Analysis Completion Date				11.03.24 / 16.03.24			
S. N.	Parameters	Unit	Method of Test		Result		
1	Total Dissolved Solids	mg/l.	IS 3025(Part-16)		1512.0		

Shibeswar Prasad

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Date: 2024.03.23
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad

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Date: 2024.03.23
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10255		Dt: 23.03.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 09.03.24			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	29	Humidity (%)	60
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-10255			
[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				11.03.24			
[n] Analysis Start Date / Analysis Completion Date				11.03.24, 24 / 16.03.24			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH at 25 °C	---	IS 3025 (Part-11)		5.5 to 8.5		7.41
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		32.0
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		250.00		116.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.00		1.1
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		50.00		11.8
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		100.00		19.6

Shibeswar Prasad

Digitally signed by
Shibeswar Prasad
Date: 2024.03.23
11:28:01 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by
Shreyasee Prasad
Date: 2024.03.23
11:33:02 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10255(A)		Dt: 23.03.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 09.03.24			
[d] Sampling Location				Collected from Outlet of ETP			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	29	Humidity (%)	60
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-10255			
[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				11.03.24			
[n] Analysis Start Date / Analysis Completion Date				11.03.24 / 16.03.24			
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)		Not Specified		498.0



Shibeswar
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10256		Dt: 23.03.2024		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			By Chitranjan Kumar (Lab Representative) of Shiva Test House on 09.03.24			
[d]	Sampling Location			From Aeration Tank			
[e]	Method of Sampling			IS 3025, APHA			
[f]	Sampling Environmental Condition			Temp. (°C)	29	Humidity (%)	60
[g]	No. & Type of Container			Plastic Bottle			
[h]	Sample Quantity			2 Litres			
[i]	Sample Code			E-10256			
[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			11.03.24			
[n]	Analysis Start Date / Analysis Completion Date			11.03.24 / 16.03.24			
Sl. No.	Parameters			Unit	Method of Test		Result
1.	Mixed Liquor Suspended Solids (MLSS)			mg/l	IS 3025 (Part-24)		2730.0
2.	Mixed Liquor Volatile Suspended Solids (MLVSS)						2440.0

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10257		Dt: 23.03.2024		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				By Chitrangan Kumar (Lab Representative) of Shiva Test House on 09.03.24			
[d] Sampling Location				Collected from Lagoon			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	29	Humidity (%)	60
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-10257			
[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				11.03.24			
[n] Analysis Start Date / Analysis Completion Date				11.03.24.24 / 16.03.24			
S. N.	Parameters	Unit	Method of Test		Limit as per E (P) Rules Schedule VI		Result
1	pH at 25 °C	---	IS 3025 (Part-11)		5.5 to 8.5		7.35
2	Suspended Solids	mg/l.	IS 3025(Part-17)		100.0		33.0
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		250.00		120.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)		5.00		1.1
7	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)		50.00		12.3
8	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)		100.00		20.2

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Dr. Shibeshwar Prasad
Technical Manager



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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10257(A)		Dt: 23.03.2024		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				By Chitranjan Kumar (Lab Representative) of Shiva Test House on 09.03.24			
[d] Sampling Location				Collected from Lagoon			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C)	29	Humidity (%)	60
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-10257			
[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				11.03.24			
[n] Analysis Start Date / Analysis Completion Date				11.03.24 / 16.03.24			
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)		Not Specified		516.0



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10258-10261	Dt: 23.03.2024	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	By Chitrangan Kumar (Lab Representative) of Shiva Test House on 09.03.24							
[d] Sampling Location	Premises of Sugar Mill							
[e] Method of Sampling	IS 5182 (Part - 14)							
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%)	60				
[g] Details of Sample Container (No. & Type of Container)	Filter Paper; Glass Impinger							
[h] Instrument ID	STH/Equip/54, STH/Equip/39, STH/Equip/55, STH/Equip/113, STH/Equip/57, STH/Equip/114, STH/Equip/58, STH/Equip/115							
[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	11.03.24							
[n] Analysis Start Date / Analysis Completion Date	11.03.24 / 16.03.24							
Parameters	Unit	Method of Test	Limit as per NAAQS 2009	Sampling Station / Result				
				Near Gate (SC_A-10258)	Main House (SC_A-10259)	Guest (SC_A-10260)	Near Store (SC_A-10261)	Near Cooling Tower (SC_A-10262)
Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	72.0 63.4 71.4	81.4 64.2 71.0	75.8 62.2 72.8	79.3 73.5 68.1	
Particulate Matter (PM _{2.5})	µg / m ³	IS 5182 (Part-24)	60	42.6 32.6 37.6	44.3 32.9 40.5	43.9 32.6 42.7	48.2 34.2 44.4	
Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	15.8 15.1 10.9 8.9 11.9 16.8	15.1 13.4 11.1 9.1 12.1 14.1	17.8 12.1 8.9 9.9 15.8 18.8	14.6 12.0 10.7 9.8 11.7 13.7	
Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	41.6 37.0 23.5 20.8 32.9 39.6	41.0 36.3 24.6 26.0 34.9 42.4	40.3 37.7 26.2 30.2 34.9 41.6	40.5 40.0 29.9 31.9 34.5 39.2	
Average Value								
PM ₁₀	µg / m ³			68.9	72.2	70.3	73.6	
PM _{2.5}	µg / m ³			37.6	39.2	39.7	42.2	
SO ₂	µg / m ³			13.2	12.5	13.9	12.1	
NO ₂	µg / m ³			32.6	34.2	35.2	36.0	

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10262	Dt: 23.03.2024	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	By Chitrangan Kumar (Lab Representative) of Shiva Test House on 09.03.24			
[d] Sampling Location	Premises of Sugar Mill			
[e] Method of Sampling	IS 5182 (Part - 14)			
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%)	60
[g] No. & Type of Container	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/117			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-10262			
[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	11.03.24			
[o] Analysis Start Date / Analysis Completion Date	11.03.24 / 16.03.24			
Parameters	Unit	Method of Test	Results	
1. Type of Fuel	---	IS 11255 (Part-3)	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 Construction	---		ID Fan	
7. Material of Construction	---		M.S.	
8. Ambient Temperature	°C		29.0	
9. Flue Gas Temperature	°C		122.0	
10. Velocity	m/sec.		7.6	
11. Volumetric Flow Rate	NM³/hr.		39023.6	
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)	41.2
14. Sulphur Dioxide (SO₂)	mg / NM³	IS 11255 (Part-2)	Not Specified	9.8
15. Oxides of Nitrogen (NO₂)	mg / NM³	IS 11255 (Part-7)	Not Specified	58.9

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TEST REPORT

Ref. No. STH/TR/23-24/10263	Dt: 23.03.2024	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		By Chitrangan Kumar (Lab Representative) of Shiva Test House on 09.03.24	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	29 Humidity (%) 60
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/117	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-10263	
[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		11.03.24	
[o] Analysis Start Date / Analysis Completion Date		11.03.24 / 16.03.24	
Parameters		Unit	Method of Test
1. Type of Fuel		---	IS 11255 (Part-3)
2. Stack Connected to		---	
3. Stack No.		---	
4. Height of Stack above ground level (as reported)		Meter	
5. Dia of Stack at Top (as reported)		Meter	
6. Material of Construction		---	
7. Material of Construction		---	
8. Ambient Temperature		°C	
9. Flue Gas Temperature		°C	
10. Velocity		m/sec.	
11. Volumetric Flow Rate		NM ³ /hr.	
12. Sampling Point		Meter	
			Results
			Bagasse
			Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.
			II
			40.00 M.
			2.55 M.
			ID Fan
			M.S.
			29.0
			118.0
			7.9
			106540.3
			19.00 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) 46.8
14. Sulphur Dioxide (SO ₂)		mg / NM ³	IS 11255 (Part-2) Not Specified 8.2
15. Oxides of Nitrogen (NO ₂)		mg / NM ³	IS 11255 (Part-7) Not Specified 54.4

Shibeswar Prasad

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Technical Manager



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Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10264	Dt: 23.03.2024	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		By Chitraranjan Kumar (Lab Representative) of Shiva Test House on 09.03.24	
[d] Sampling Location		Premises of Sugar Mill	
[e] Method of Sampling		IS 5182 (Part - 14)	
[f] Sampling Environmental Condition		Temp. (°C)	29 Humidity (%) 60
[g] No. & Type of Container		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/117	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-10264	
[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		11.03.24	
[o] Analysis Start Date / Analysis Completion Date		11.03.24 / 16.03.24	
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 Construction	----		ID Fan
7. Material of Construction	----		RCC
8. Ambient Temperature	°C		29.0
9. Flue Gas Temperature	°C		126.0
10. Velocity	m/sec.		IS 11255 (Part-3)
11. Volumetric Flow Rate	NM ³ /hr.		101524.3
12. Sampling Point	Meter		21.00 M.
			Limit as per E (P) Rules Schedule I
13. Particulate Matter (P.M.)	mg / NM ³	500.00 mg / NM ³ (12% CO ₂)	500.00 mg / NM ³ (12% CO ₂)
14. Sulphur Dioxide (SO ₂)	mg / NM ³	Not Specified	Not Specified
15. Oxides of Nitrogen (NO ₂)	mg / NM ³	Not Specified	Not Specified

Shibeswar
Prasad

Digitally signed by
Shibeswar Prasad
Date: 2024.03.23
11:30:02 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

Digitally signed by
Shreyasee Prasad
Date: 2024.03.23
11:37:24 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

-- END OF TEST REPORT --

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

Page 1 of 1

Contact us : 122-C, Aastha, Road No. 5A, Patliputra Colony, Patna – 800 013 (Bihar)
Mob : +918676886249 ; +919431047908 Email : sthpatal@yahoo.co.in ; info@shivatest.com
Website : www.shivatest.com ; www.shivatesthouse.com





SHIVA TEST HOUSE

(Serving since 1988)



TC-10582

RECOGNISED AS ENVIRONMENTAL LABORATORY BY MoEFCC, GOVT. OF INDIA, UNDER ENVIRONMENT (PROTECTION) ACT 1986, DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. STH/TR/23-24/10265		Dt: 23.03.2024		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)		29		Humidity (%)	60
[c] Details of Sample			Monitoring of Ambient Noise Level within factory periphery					
[d] Monitored by			By Chitrangan Kumar (Lab Representative) of Shiva Test House on 09.03.24					
[e] Items required to be tested			As per contract					
[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)	68.1		55.2			
2.	Near Guest house	dB(A)	56.4		45.1			
3.	Near Cooling Tower	dB(A)	63.7		58.2			
4.	Near ETP	dB(A)	65.3		59.0			
5.	Near Sugar Godown	dB(A)	60.2		52.6			
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.					
			The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 70.0 dB(A), for Commercial area is 55.0 dB(A), for Residential area is 45.0 dB(A) & for Silence Zone is 40.0 dB(A) in nighttime i.e. 10.00 pm to 6.00 a.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.					

Shibeswar Prasad

Digitally signed by
Shibeswar Prasad
Date: 2024.03.23
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

-- END OF TEST REPORT --

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