



Majhaulia Sugar Industries Pvt. Ltd.

(Subsidiary : Jay Shree Tea & Industries Ltd.)

May 24, 2022

To,
The Additional Director
Ministry of Environment & Forest,
Govt. of India, Eastern Regional Officer,
A/3, Chandrashekharpur,
Bhubaneshwar - 751 023

WP/54/22

Sub:- SIX MONTHLY COMPLIANCE REPORT OF June, 2022.

Dear Sir,

Please find enclosed herewith the Six Monthly Compliance Report alongwith details of analysis of treated and untreated water, ground water, Boiler Stack Analysis, Ambient Air Quality, Ambient Noise Level report from 01.10.2021 to 31.03.2022.

We are also enclosing herewith the photocopy of E.T.P. flow diagram, Process flow diagram, NOC from CGWA, New Delhi, Consent Order photocopy of Hazardous waste, discharge and emission order issued by Bihar State Pollution Control Board, Patna.

Thanking you,
Yours Faithfully,

For Majhaulia Sugar Industries
(Prop: Jay Shree Tea & Industries Ltd)

Factory Manager

Encl: As Above.



DETAILED CONDITION COMPLIANCE OF ENVIRONMENTAL CLEARANCE

(PERIOD 01.10.2021 TO 31.03.2022)

<i>Conditions as per MoEF F. No. J-11011/43/2009-IA II (I)</i>	<i>Compliance Details</i>																										
Specific Conditions																											
1. The waste water generation shall not exceed 500 m ³ /day which after treatment shall be used for wet scrubber makeup, spray pond and irrigation purpose to achieve zero discharge. The domestic effluent shall be disposed off in the soak pit	During the period Apr. – Sep. every year our plant is not being operated. Our plant goes in operation from Nov. – Mar. every year during cane crushing period. During the period 2021-22, our sugar mill was in operation from 15 th Nov.'2021 to 28 th Jan.'2022. 888 m ³ /day of waste water is generated during season & after treatment 856 m ³ /day it was being used for wet scrubber makeup, spray pond and irrigation purpose to achieve zero discharge. The domestic effluent is being disposed off in the soak pit inside the premises.																										
2. As per the CPCB requirement storage for the treated effluent from the sugar unit shall not exceed 15 days capacity	We have constructed treated effluent storage lagoon of for 15 days storage capacity. (Capacity : 12600 m ³ {90m. x 70m. x 2 m.}).																										
3. Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and this ministry	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.'21 – Mar.'22 is as under ; <table border="1" style="margin-left: auto; margin-right: auto;"> <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;">7.19 – 7.27</td></tr> <tr><td>2. Turbidity on NTU</td><td style="text-align: center;">< 1.0</td></tr> <tr><td>3. Total Dissolved Solids (TDS)</td><td style="text-align: center;">308 – 336</td></tr> <tr><td>4. Total Hardness as CaCO₃</td><td style="text-align: center;">216 – 240</td></tr> <tr><td>5. Calcium as Ca</td><td style="text-align: center;">49.7 – 65.7</td></tr> <tr><td>6. Magnesium as Mg</td><td style="text-align: center;">18.5 – 22.5</td></tr> <tr><td>7. Iron as Fe</td><td style="text-align: center;">0.42 – 0.52</td></tr> <tr><td>8. Total Alkalinity as CaCO₃</td><td style="text-align: center;">188 – 208</td></tr> <tr><td>9. Chloride as Cl</td><td style="text-align: center;">20 – 22</td></tr> <tr><td>10. Sulphate as SO₄</td><td style="text-align: center;">22.4 – 24.4</td></tr> <tr><td>11. Nitrate as NO₃</td><td style="text-align: center;">2.2 – 2.9</td></tr> <tr><td>12. Fluoride as F</td><td style="text-align: center;">0.38 – 0.42</td></tr> </tbody> </table>	Parameters	All values in mg/l. except pH & Turbidity Minm. - Maxm. Range	1. pH	7.19 – 7.27	2. Turbidity on NTU	< 1.0	3. Total Dissolved Solids (TDS)	308 – 336	4. Total Hardness as CaCO ₃	216 – 240	5. Calcium as Ca	49.7 – 65.7	6. Magnesium as Mg	18.5 – 22.5	7. Iron as Fe	0.42 – 0.52	8. Total Alkalinity as CaCO ₃	188 – 208	9. Chloride as Cl	20 – 22	10. Sulphate as SO ₄	22.4 – 24.4	11. Nitrate as NO ₃	2.2 – 2.9	12. Fluoride as F	0.38 – 0.42
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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.	Analysis report is being attached herewith as Annexure - I <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-IA II (I)	Compliance Details
per CPCB Standards.	
5. The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF the respective Zonal Office of CPCB and the State Pollution Control Board. The criteria pollutants levels namely SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters indicated for the project shall be monitored and displayed at a convenient locations near the main gate of the company in the public domain.	We have uploaded the compliance of stipulated environmental clearance conditions on company's website www.jayshreesugar.in . Update of compliance is done of periodical basis.
6. The company shall obtain permission from the State/Ground Water Department to draw the water as may be applicable to this case.	We have obtained NOC for ground water withdrawal from CGWB vide NOC No. CGWA/NOC/IND/REN/1/2021/6499, valid upto 31.12.2022 (Copy enclosed).
7. Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant and compost yard as per the CPCB guidelines in consultation with the local DFO	Green belt in 33% of the plant area is being developed. Green belt is being developed with the consultation of DFO. (Already submitted in Jun.'11 six monthly report.)
8. The company shall adopt rain water harvesting measures to recharge the ground water	We have implemented rain water harvesting plan as per guidelines of CGWB.
General Conditions	
1. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment & Forests	No further expansion or modifications in the plant will be done without prior approval of the Ministry of Environment & Forests
2. Ambient Air Quality Monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , NO _x are anticipated in consultation with the State Pollution Control Board	Ambient Air Quality Monitoring Stations have been set up in the down wind direction at 4 locations and monitoring of AAQ is being done on regular basis during operation of plant. The AAQ monitoring results (average values) of Nov.'21 – Jan.'22 shows that PM ₁₀ varied between 76.4 – 85.4 µg/m ³ , PM _{2.5} varied between 42.1 – 48.4 µg/m ³ , SO ₂ varied between 13.4 – 14.5 µg/m ³ & NO ₂ varied between 40.2 – 43.1 µg/m ³ Attached as Annexure – II

Conditions as per MoEF F. No. J-11011/43/2009-IA II (I)	Compliance Details
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 7.29 – 7.45, TSS varied from 26 - 52 mg/l., TDS varied from 720 – 740 mg/l., BOD varied between 24 - 26 mg/l., COD varied between 104 - 124 mg/l. All these values are within the limit prescribed under E(P) rules.
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.	Characteristics of Treated Effluent & Stack Emissions are within the norms stipulated under the EPA Rules. Monitoring of Stack Emission is being done on regular basis (during operation of Sugar mill). Stack Emission Monitoring results for the period Nov.'21 to Jan.'22 shows that concentration of PM varied from 136.2 – 189.5 mg/NM ³ , SO ₂ varied from 10.7 – 15.6 mg/NM ³ & NO ₂ varied from 18.1 – 24.1 mg/NM ³ .
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)	The noise level in and around the plant area are well within the prescribed limits under EPA Rules. The Ambient noise level during Nov.'21 – Jan.'22 period for day time varied from 63.7 – 69.6 dB(A) & for night time varied from 55.5 – 63.5 dB(A) Noise Monitoring report is attached as Annexure III .
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 compounder 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	We are maintaining a Environmental Laboratory for Testing of Treated Effluent. Environment Management Cell is formed under the Chairmanship of Unit Head.

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

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

Patna, dated- 03.12.18

DISCHARGE CONSENT ORDER

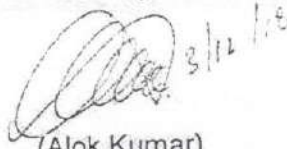
With reference to the online application no- OR538N009104/1679158 dated 29.08.2018 of M/s Majhaulia Sugar Industries Pvt. Ltd, At & P.O.-Majhaulia, District- West Champaran-845454 for consent under sections 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, he/she/they is/are granted consent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

- 1 That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 24, 31 and 33A of the Water (Prevention & Control of Pollution) Act, 1974 and further shall extend co-operation to the Board in performing its functions entrusted under sections 20,21,23,30 and 32 of the Act;
- 2 That he/they shall comply with the requirements of rule 14 of the Environment (Protection) Rules, 1986; provisions (whichever applicable) of the Hazardous And Other Wastes (Management and Transboundary Movement), Rules, 2016, rules 4.5,7,8,10,11,12,13,15 and 18 of the Manufacture, Storage and Import of Hazardous Chemical Rules,1989; and the provisions of the Public Liability Insurance Act,1991, whichever is applicable;
- 3 That, he/they shall monitor his/their effluent(s) regularly and maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for;
- 4 That, he/they shall submit application for consent again 30 days before the expiration of the period of consent or within 30 days from the date of receipt of this order, whichever is applicable;
- 5 That, they shall operate and maintain online effluent monitoring system which has been installed as per directions of CPCB and shall connect/upload the online monitoring data at CPCB/SPCB server;
- 6 That, effluent treatment plant(comprising primary, secondary and tertiary treatment) shall be operated to treat the trade effluent so as to achieve the standards prescribed under the Rules or as directed time to time, whichever is stringent;
- 7 The treated effluent shall be disposed on land for irrigation after achieving the required standard and in no any case treated/untreated effluent shall be find its way outside the factory premises directly or indirectly. They shall maintain Zero Liquid Discharge and water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept and 15 days storage capacity (pucca & lined lagoon) shall be provided for treated effluent to take care of no demand for irrigation;
- 8 That, the unit shall comply with as undertaken (vide undertaking submitted online on dated 26.11.2018) which are as under:
 - i) That, the unit shall complete laying of pipeline from ETO to lined lagoon and irrigation pipeline network within one month;
 - ii) That, the unit shall re-use the treated effluent in the plant for wet scrubbing, sprinkling on road for dust suppression and for horticulture purposes till irrigation channel network is completed;
 - iii) That, the unit shall not discharge any effluent in 'Kohara River';

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

To

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


(Alok Kumar)
Member-Secretary



BIHAR STATE POLLUTION CONTROL BOARD

PARIVESH BHAWAN, PLOT NO. NS-B/2, PALIPUTRA INDUSTRIAL AREA,
PATLIPUTRA, Patna - 800 010

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

EMISSION CONSENT ORDER

Patna, dated-03.12.18

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

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

To

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

 3/12/18

(Alok Kumar)
Member-Secretary

(Alok Kumar)

BIHAR STATE POLLUTION CONTROL BOARD

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

FORM 2 [See rule 6(2)]

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

1. Number of authorization and date of issue : HW/1138819/2017 Patna, dated-17.11.2017
2. Reference of application (No. and date) : 1138819, dated-17.11.2017
3. M/s Manjhaulia Sugar Industries Pvt. Ltd. is hereby granted an authorization based on the enclosed signed inspection report for generation, collection, reception, storage, transport, reuse, recycling, recovery, pre-processing, co-processing, utilization, treatment, disposal or any other use of hazardous or other wastes or both on the premises situated at Manjhaulia, West Champaran

Details of Authorization

Sl. No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorized mode of disposal or recycling or utilization or co processing, etc.	Quantity (Ton/Annum)
1.	Used or Spent oil (HW cat. no. 5.1) and Oil & Grease Skimming (HW cat. no. 35.4) as per Schedule-I	Used oil: Generation, collection, storage, transportation and offer for sale for the purpose of its recycling to authorized recycler. Oil & grease skimming: Incineration through authorized TSDF or can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule-V either as such or after reprocessing.	Used oil: 1.5 KLA (1,275 TPA) Oil & grease skimming : 3.0 TPA

- 1) The authorization shall be valid for a period of five years (from 17.12.2017 to 16.12.2022).
- 2) The authorization is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):
- A. General conditions of authorization:**
- The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
 - The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
 - The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
 - Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
 - The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
 - The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".
 - It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
 - The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
 - The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
 - The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
 - The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
 - An application for the renewal of an authorization shall be made as laid down under these Rules.
 - Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
 - Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- B. Specific conditions:**
- The unit shall display details of hazardous waste at the main gate on board of 6'x 4' size.
 - The unit shall maintain a record of hazardous waste and other waste handled in Form-3 and shall submit annual return in Form-4 to this Board on or before 30th June of every year.
 - The unit shall not store the hazardous waste in the premises for a period of more than 90 days provided the board has extended the said period.
 - The unit shall store its hazardous waste (Used Oil, HW cat. no. 5.1) for the temporary period in MS drums under covered shed for the purpose of its sale to the authorized recycler and oil and grease skimmed (HW category no. 35.4) for the incineration through authorized TSDF Facility or can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule-V either as such or after reprocessing.
 - The unit shall ensure that no damage is caused to environment during collection, storage & transportation of its HW.

(Atok Kumar)
 Member Secretary



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

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)
NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

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

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

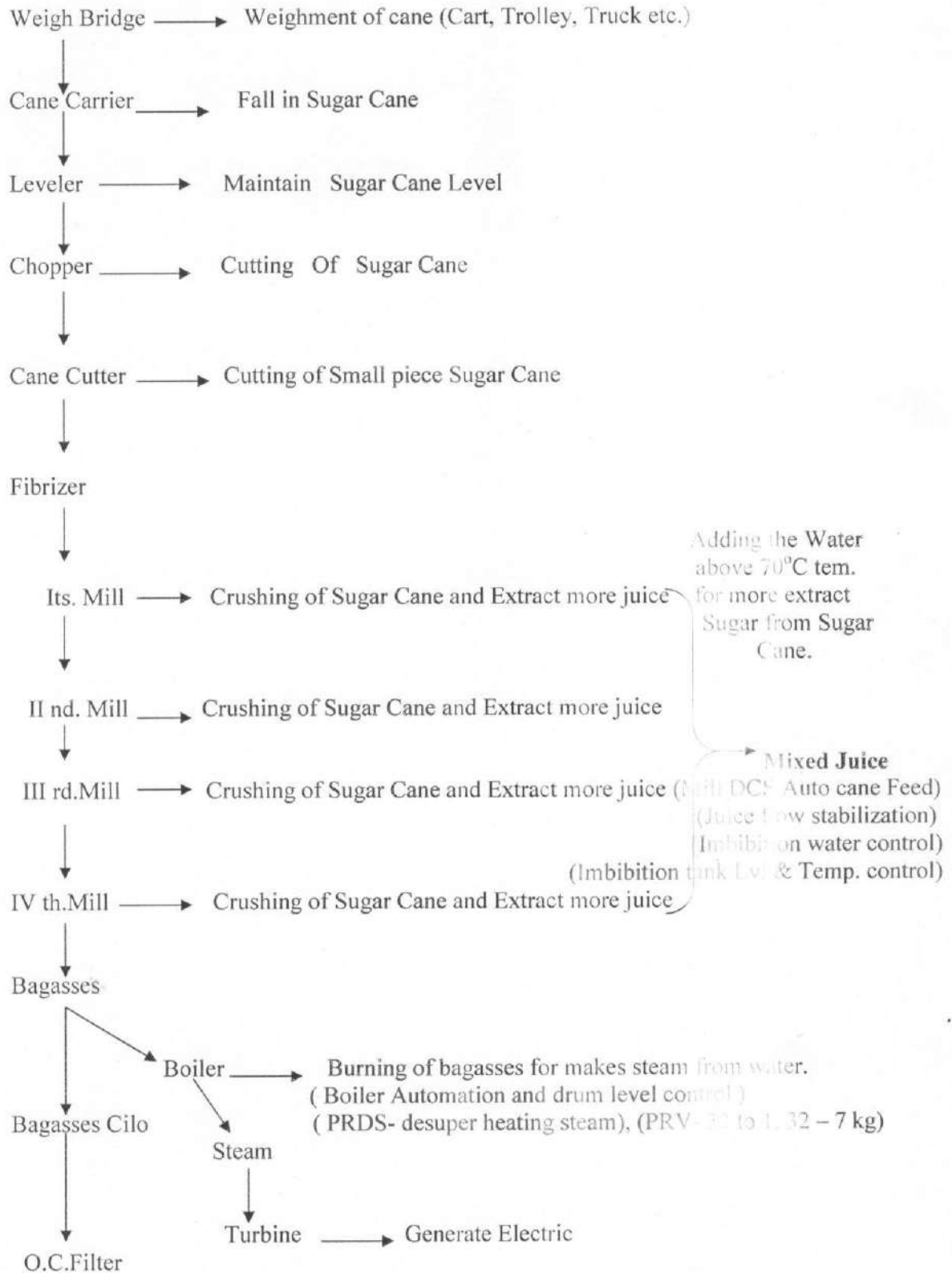
(Compliance Conditions given overleaf)

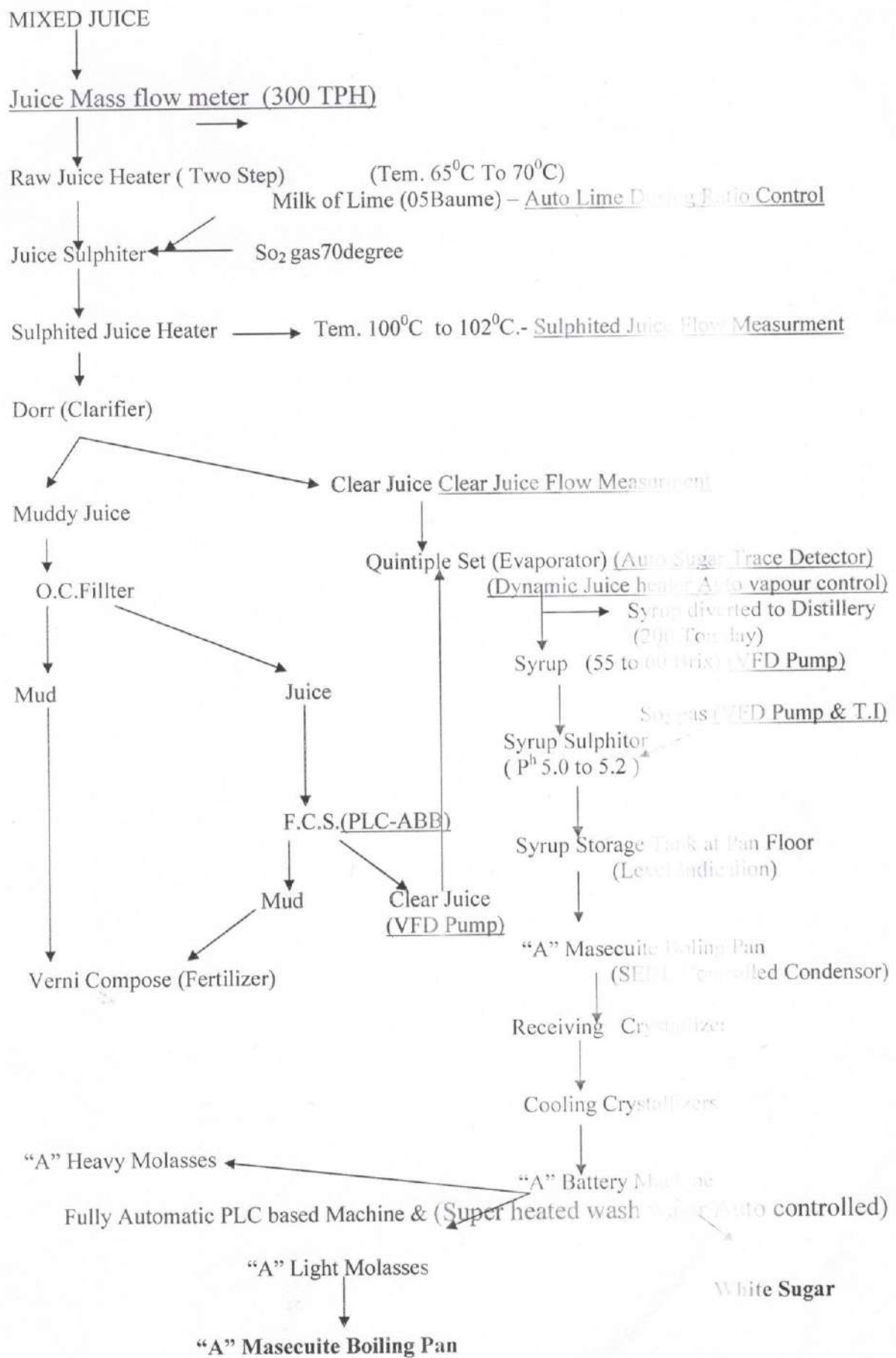
This is an auto generated document & need not to be signed.

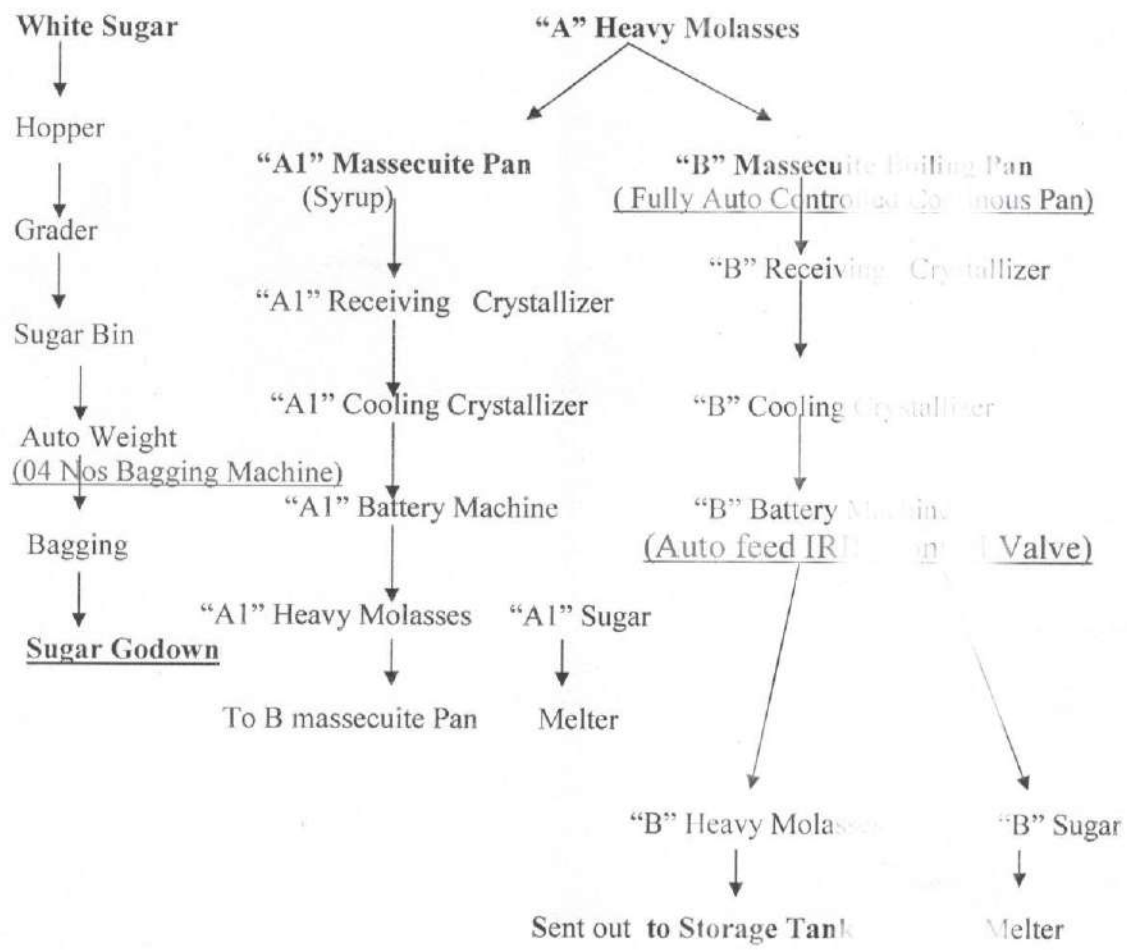
18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

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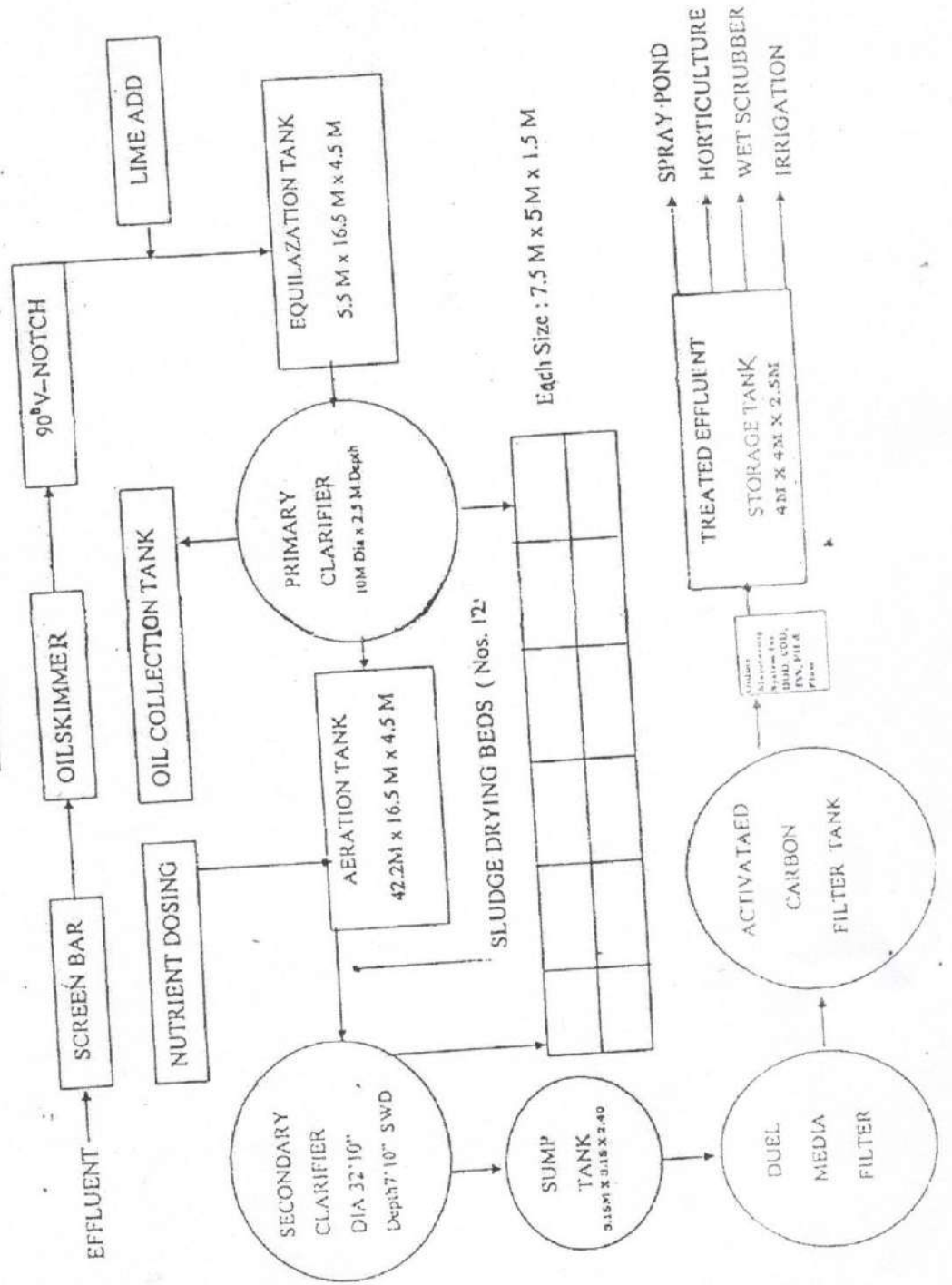
Majhulia sugar Industries Pvt. Ltd. MAJHAULIA
Process Flow Chart Year 2021-22







FLOW DIAGRAM OF E.T.P.





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TEST REPORT

Ref. No. <i>MS/TR/21-22/2606</i> Dt: <i>02.12.2021</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>			
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454	
[b] Details of Sample		Untreated Effluent sample	
[c] Sample Collected by		SHIVA TEST HOUSE on 23.11.21	
[d] Sampling Location		From Inlet of ETP	
[e] Method of Sampling		IS 3025, APHA	
[f] Sampling Environmental Condition		Temp. (°C)	29 Humidity (%) 58
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)	
[h] Sample Quantity		2 Litres	
[i] Items required to be tested		As per contract	
[j] Whether any specific Method of Test has been suggested by the customer		No	
[k] Date of receiving the sample in Laboratory		24.11.21	
[l] Analysis Start Date / Analysis Completion Date		24.11.21 / 27.11.21	
Sl. No.	Parameters	Method of Test	Result (in mg/l.) except pH, Colour
1.	Colour	IS 3025 (Part-4)	Passes Test
2.	pH	IS 3025 (Part-11)	8.61
3.	Suspended Solids	IS 3025(Part-17)	440.0
4.	Total Dissolved Solids	IS 3025(Part-16)	2450.0
5.	Oil & Grease	IS 3025 (Part-39)	4.2
6.	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	410.0
7.	C.O.D.	APHA 5220 B	1120.0
8.	Dissolved Phosphate as P	APHA (4500-P-D)	5.4
9.	Ammonical Nitrogen as N	IS 3025 (Part-34)	26.9
10.	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	46.5



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Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MS/TR/21-22/2607</i> Dt: <i>02.12.2021</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>					
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454			
[b] Details of Sample		Treated Effluent sample			
[c] Sample Collected by		SHIVA TEST HOUSE on 23.11.21			
[d] Sampling Location		From Outlet of ETP			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	29	Humidity (%)	58
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)			
[h] Sample Quantity		2 Litres			
[i] Items required to be tested		As per contract			
[j] Whether any specific Method of Test has been suggested by the customer		No			
[k] Date of receiving the sample in Laboratory		24.11.21			
[l] Analysis Start Date / Analysis Completion Date		24.11.21 / 27.11.21			
S. N.	Parameters	Method of Test	Limit as per E (P) Rules Schedule VI	Result (in mg/l.) except pH, Colour	
1	Colour	IS 3025 (Part-4)	Not Specified	Colourless	
2	pH	IS 3025 (Part-11)	5.5 to 8.5	7.29	
3	Suspended Solids	IS 3025(Part-17)	100.0	28.0	
4	Total Dissolved Solids	IS 3025(Part-16)	2100.00	720.0	
5	Oil & Grease	IS 3025 (Part-39)	10.00	1.4	
6	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	100.00	24.0	
7	C.O.D.	APHA 5220 B	Not Specified	104.0	
8	Dissolved Phosphate as P	APHA (4500-P-D)	Not Specified	1.1	
9	Ammonical Nitrogen as N	IS 3025 (Part-34)	Not Specified	11.8	
10	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	Not Specified	19.6	



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TEST REPORT

Ref. No. <i>MS/TR/21-22/2608</i> Dt: <i>02.12.2021</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>				
[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 Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 23.11.21			
[d] Sampling Location	Boiler No. 9 of Sugar Mill			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%) 58	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	24.11.21			
[l] Analysis Start Date / Analysis Completion Date	24.11.21 / 26.11.21			
Parameters	Method of Test	Results		
1. Type of Fuel		Bagasse		
2. Stack Connected to		Dumping Grate Boiler No. 9 having Steam generation capacity 32.0 T / hr.		
3. Stack No.		I		
4. Height of Stack above ground level (as reported)		30.00 M.		
5. Dia of Stack at Top (as reported)		1.55 M.		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		29.0		
8. Flue Gas Temperature, °C		98.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	8.8	
10. Volumetric Flow Rate (NM ³ /hr.)			47991.1	
11. Sampling Point			11.00 M.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	181.0	500.00 mg / NM ³ (12% CO ₂)	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	12.8	Not Specified	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	22.3	Not Specified	



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TEST REPORT

Ref. No. MS/TR/21-22/2609 Dt: 02.12.2021 Your Work Order No. WP/467/17 Dt: 08.08.2017				
[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 Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 23.11.21			
[d] Sampling Location	Boiler No. 10 of Sugar Mill			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%)	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	24.11.21			
[l] Analysis Start Date / Analysis Completion Date	24.11.21 / 26.11.21			
Parameters	Method of Test	Results		
1. Type of Fuel		Bagasse		
2. Stack Connected to		Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.		
3. Stack No.		II		
4. Height of Stack above ground level (as reported)		40.00 M.		
5. Dia of Stack at Top (as reported)		2.55 M.		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		29.0		
8. Flue Gas Temperature, °C		92.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	9.1	
10. Volumetric Flow Rate (NM ³ /hr.)			136526.6	
11. Sampling Point			19.00 M.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	155.1	500.00 mg / NM ³ (12% CO ₂)	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	11.2	Not Specified	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	19.3	Not Specified	




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TEST REPORT

Ref. No. <i>MS/TR/21-22/2610</i> Dt: <i>02.12.2021</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>				
[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 Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 23.11.21			
[d] Sampling Location	Boiler No. 11 of Sugar Mill			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%) 58	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	24.11.21			
[l] Analysis Start Date / Analysis Completion Date	24.11.21 / 26.11.21			
Parameters	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)		40.00 M.		
5. Dia of Stack at Top (as reported)		2.50 M.		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		29.0		
8. Flue Gas Temperature, °C		108.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	8.5	
10. Volumetric Flow Rate (NM ³ /hr.)			117425.5	
11. Sampling Point			21.00 M.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	189.5	500.00 mg / NM ³ (12% CO ₂)	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	14.9	Not Specified	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	21.2	Not Specified	



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TEST REPORT

Ref. No. <i>MS/TR/21-22/2611</i>		Dt: <i>02.12.2021</i>		Your Work Order No. <i>WP/467/17</i>		Dt: <i>08.08.2017</i>	
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454						
[b] Details of Sample	Monitoring of Ambient Air Quality						
[c] Sample Collected by	Shiva Test House on 23.11.21						
[d] Sampling Location	Within Premises of Sugar Mill						
[e] Method of Sampling	IS 5182 (Part - 14)						
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%)	58			
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger						
[h] Sample Quantity	4 Nos.						
[i] Items required to be tested	As per contract						
[j] Whether any specific Method of Test has been suggested by the customer	No						
[k] Date of receiving the sample in Laboratory	24.11.21						
[l] Analysis Start Date / Analysis Completion Date	24.11.21 / 26.11.21						
Parameters	Method of Test	Sampling Station					
		Near Guest House	Near Store	Near Cooling Tower	Near Main Gate		
[a] Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	79.2	78.2	86.8	81.2	Specification as per NAAQS (Nov. '2009)	
		72.4	82.7	78.2	71.4		
		68.1	70.1	76.4	72.2		
[b] Particulate Matter (PM _{2.5}), µg / m ³	CPCB	40.2	45.2	50.2	46.1		
		42.1	40.4	44.1	40.2		
		34.2	38.8	41.2	42.4		
[c] Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	11.4	14.8	14.2	15.8		
		14.6	15.2	15.1	17.4		
		11.2	13.8	16.8	16.2		
		16.2	12.2	12.2	12.4		
		12.1	10.6	9.8	13.2		
[d] Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	10.8	11.4	9.4	14.4		
		36.4	42.4	40.2	45.5		
		33.2	46.2	44.5	44.4		
		38.3	44.4	40.4	42.8		
		42.1	40.6	38.8	40.4		
24 Hrs. Average Value							
PM ₁₀		73.2	77.0	80.5	74.9	100 µg / m ³	
PM _{2.5}		38.8	41.5	45.2	42.9	60 µg / m ³	
SO ₂		12.7	13.0	12.9	14.9	80 µg / m ³	
NO ₂		35.5	42.5	40.4	42.2	80 µg / m ³	



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[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 Noise Level			
[c] Sample Collected by	Shiva Test House on 23/24.11.20			
[d] Sampling Location	Within Premises of Sugar Mill			
[e] Method of Sampling	IS 9989 – 1981 (Reaff. 2001)			
[f] Sampling Environmental Condition	Temp. (°C)	29	Humidity (%)	58
[g] Items required to be tested	As per contract			
[h] Whether any specific Method of Test has been suggested by the customer	No			
Sampling Location	TWA of Noise Level in dB(A)			
	Day Time (6:00 am to 9:00 pm)	Night time (10:00 pm to 6:00 am)		
1. Near Main Gate	65.1	62.8		
2. Near Guest House	64.8	56.9		
3. Near Cooling Tower	68.9	61.2		
4. Near ETP	66.3	61.8		
5. Near Sugar Godown	66.7	59.8		
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.			



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[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				<i>Water sample</i>			
[c] Sample Collected by				SHIVA TEST HOUSE on 23.11.21			
[d] Sampling Location				<i>Collected from Borewell within premises</i>			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp. (°C) 29 Humidity (%) 58			
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Items required to be tested				As per contract			
[j] Whether any specific Method of Test has been suggested by the customer				No			
[k] Date of receiving the sample in Laboratory				24.11.21			
[l] Analysis Start Date / Analysis Completion Date				24.11.21 / 26.11.21			
		<i>Limit as per IS 10500 : 2012</i>					
S. N.	Parameters	Limit (mg/l.) Acceptable	Permissible Limit in the absence of alternative source	Method of Test	Results in mg/l. except colour, Odour, Taste, Turbidity, & pH		
1	Colour	5 Hazen Limit	15	IS 3025 (Part-4)	< 5.00		
2	Odour	Agreeable	Agreeable	IS 3025 (Part-5)	Agreeable		
3	Taste	Agreeable	Agreeable	IS 3025 (Part-7))	Agreeable		
4	pH	6.5 to 8.5	--	IS 3025 (Part-11)	7.18		
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-10)	<1.0		
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-16)	284.0		
7	Total Hardness as CaCO ₃	200.00	600.00	IS 3025 (Part-21)	180.0		
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-40)	46.5		
9	Magnesium as Mg	30.00	100.00	IS 3025 (Part-46)	15.5		
10	Iron as Fe	1.0	No relaxation	IS 3025 (Part-53)	0.36		
11	Total Alkalinity as CaCO ₃	200.00	600.00	IS 3025 (Part-23)	168.0		
12	Chloride as Cl	250.00	1000.00	IS 3025 (Part-32)	14.0		
13	Sulphate as SO ₄	200.00	400.00	APHA (4500-E)	18.2		
14	Nitrate as NO ₃	45.00	No relaxation	APHA (4500 NO3 – B)	2.6		
15	Fluoride as F	1.00	1.50	APHA 4500 (F D)	0.38		



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Mob.: +918676886249 ; +919431047908 Email : sthpatal@yahoo.co.in ; info@shivatest.com
Website : www.shivatest.com ; www.shivatesthouse.com





SHIVA TEST HOUSE

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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. <i>MSIPL/TR/21-22/2615(a)</i> Dt: <i>02.12.2021</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>			
[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	Water sample		
[c] Sample Collected by	SHIVA TEST HOUSE on 23.11.21		
[d] Sampling Location	Collected from Borewell within premises		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C) 29 Humidity (%) 58		
[g] Details of Sample Container (No. & Type of Container)	Sterilized Glass Bottle (01)		
[h] Sample Quantity	300 ml		
[i] Items required to be tested	As per contract.		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	24.11.21		
[l] Analysis Start Date / Analysis Completion Date	24.11.21 / 26.11.21		
BACTERIOLOGICAL EXAMINATION OF WATER			
Parameters	Limit as per IS 10500 : 2012	Method of Test	Results (CFU / 100 ml.)
Total Coliform	Shall not be detectable in 100 ml.	IS 15185 : 2016	Absent



[Signature]
Authorized Signatory
Quality Manager / CEO

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Contact us : 122-C, Aastha, Road No. 5A, Patliputra Colony, Patna – 800 013 (Bihar)
Mob.: +918676886249 ; +919431047908 Email : sthpatna1@yahoo.co.in ; info@shivatest.com
Website : www.shivatest.com ; www.shivatesthouse.com



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TEST REPORT

Ref. No. <i>MSIPL/TR/21-22/2613</i>		Dt : <i>02.12.2021</i>		Your Work Order No. <i>SP/366/19</i>		Dt : <i>24.09.2019</i>	
[a] Name and address of the Customer		General Manager M/s Majhulia Sugar Industries Pvt. Ltd. (Distillery Project) P.O.: Majhulia W.Champaran – 845 454					
[b] Details of Sample		<i>Water Sample</i>					
[c] Sample Collected by		SHIVA TEST HOUSE on <i>23.11.21</i>					
[d] Sampling Location		<i>Collected from Upstream of River Kohra</i>					
[e] Method of Sampling		IS 3025, APHA					
[f] Sampling Environmental Condition		Temp. (°C)	29	Humidity (%)	58		
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)					
[h] Sample Quantity		2 Litres					
[i] Items required to be tested		As per contract.					
[j] Whether any specific Method of Test has been suggested by the customer		No					
[k] Date of receiving the sample in Laboratory		<i>24.11.21</i>					
[l] Analysis Start Date / Analysis Completion Date		<i>24.11.21 / 24.11.21</i>					
Sl. No.	Parameters	Method of Test		Result (in mg/l.) except pH			
1.	pH	IS 3025 (Part-11)		7.58			
2.	Total Suspended Solids	IS 3025(Part-17)		80.0			
3.	Total Dissolved Solids	IS 3025 (Part-16)		362.0			
4.	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)		1.4			
5.	C.O.D.	APHA (5220 B)		12.0			
6.	Chloride as Cl	IS 3025 (Part-32)		14.0			
7.	Dissolved Oxygen	IS 3025 (Part-38)		7.7			



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02/12/2021
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MSIPL/TR/21-22/2614</i>		Dt : <i>02.12.2021</i>		Your Work Order No. <i>SP/366/19</i>		Dt : <i>24.09.2019</i>	
[a] Name and address of the Customer		General Manager M/s Majhaulia Sugar Industries Pvt. Ltd. (Distillery Project) P.O.: Majhaulia W.Champaran – 845 454					
[b] Details of Sample		<i>Water Sample</i>					
[c] Sample Collected by		SHIVA TEST HOUSE on <i>23.11.21</i>					
[d] Sampling Location		<i>Collected from Downstream of River Kohra</i>					
[e] Method of Sampling		IS 3025, APHA					
[f] Sampling Environmental Condition		Temp. (°C)	29	Humidity (%)	58		
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)					
[h] Sample Quantity		2 Litres					
[i] Items required to be tested		As per contract.					
[j] Whether any specific Method of Test has been suggested by the customer		No					
[k] Date of receiving the sample in Laboratory		24.11.21					
[l] Analysis Start Date / Analysis Completion Date		24.11.21 / 24.11.21					
Sl. No.	Parameters	Method of Test			Result (in mg/l.) except pH		
1.	pH	IS 3025 (Part-11)			7.55		
2.	Total Suspended Solids	IS 3025(Part-17)			85.0		
3.	Total Dissolved Solids	IS 3025 (Part-16)			378.0		
4.	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)			1.7		
5.	C.O.D.	APHA (5220 B)			16.0		
6.	Chloride as Cl	IS 3025 (Part-32)			16.0		
7.	Dissolved Oxygen	IS 3025 (Part-38)			7.5		



[Signature]
02/12/2021
Authorized Signatory,
Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MS/TR/21-22/3079</i> Dt: <i>03.01.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>			
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454		
[b] Details of Sample	Untreated Effluent sample		
[c] Sample Collected by	SHIVA TEST HOUSE on 14.12.21		
[d] Sampling Location	From Inlet of ETP		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%) 58
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	15.12.21		
[l] Analysis Start Date / Analysis Completion Date	15.12.21 / 18.12.21		
Sl. No.	Parameters	Method of Test	Result (in mg/l.) except pH, Colour
1.	Colour	IS 3025 (Part-4)	Passes Test
2.	pH	IS 3025 (Part-11)	8.52
3.	Suspended Solids	IS 3025(Part-17)	410.0
4.	Total Dissolved Solids	IS 3025(Part-16)	2500.0
5.	Oil & Grease	IS 3025 (Part-39)	4.4
6.	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	380.0
7.	C.O.D.	APHA 5220 B	1080.0
8.	Dissolved Phosphate as P	APHA (4500-P-D)	5.1
9.	Ammonical Nitrogen as N	IS 3025 (Part-34)	24.1
10.	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	45.9



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03/01/2022
Authorized Signatory,
Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MS/TR/21-22/3080</i> Dt: <i>03.01.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>					
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454			
[b] Details of Sample		Treated Effluent sample			
[c] Sample Collected by		SHIVA TEST HOUSE on 14.12.21			
[d] Sampling Location		From Outlet of ETP			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	21	Humidity (%)	58
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)			
[h] Sample Quantity		2 Litres			
[i] Items required to be tested		As per contract			
[j] Whether any specific Method of Test has been suggested by the customer		No			
[k] Date of receiving the sample in Laboratory		15.12.21			
[l] Analysis Start Date / Analysis Completion Date		15.12.21 / 18.12.21			
S. N.	Parameters	Method of Test	Limit as per E (P) Rules Schedule VI	Result (in mg/l.) except pH, Colour	
1	Colour	IS 3025 (Part-4)	Not Specified	Colourless	
2	pH	IS 3025 (Part-11)	5.5 to 8.5	7.31	
3	Suspended Solids	IS 3025(Part-17)	100.0	26.0	
4	Total Dissolved Solids	IS 3025(Part-16)	2100.00	730.0	
5	Oil & Grease	IS 3025 (Part-39)	10.00	1.2	
6	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	100.00	26.0	
7	C.O.D.	APHA 5220 B	Not Specified	124.0	
8	Dissolved Phosphate as P	APHA (4500-P-D)	Not Specified	1.2	
9	Ammonical Nitrogen as N	IS 3025 (Part-34)	Not Specified	11.2	
10	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	Not Specified	18.5	



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TEST REPORT

Ref. No. MS/TR/21-22/3081 Dt: 03.01.2022 Your Work Order No. WP/467/17 Dt: 08.08.2017				
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 14.12.21			
[d] Sampling Location	Boiler No. 9 of Sugar Mill			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%) 58	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	15.12.21			
[l] Analysis Start Date / Analysis Completion Date	15.12.21 / 17.12.21			
Parameters	Method of Test	Results		
1. Type of Fuel		Bagasse		
2. Stack Connected to		Dumping Grate Boiler No. 9 having Steam generation capacity 32.0 T / hr.		
3. Stack No.		I		
4. Height of Stack above ground level (as reported)		30.00 M.		
5. Dia of Stack at Top (as reported)		1.55 M.		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		210		
8. Flue Gas Temperature, °C		96.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	8.7	
10. Volumetric Flow Rate (NM ³ /hr.)			47702.9	
11. Sampling Point			11.00 M.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	182.8	500.00 mg / NM ³ (12% CO ₂)	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	13.1	Not Specified	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	23.2	Not Specified	



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Quality Manager / CEO

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TEST REPORT

Ref. No. *MS/TR/21-22/3082* Dt: *03.01.2022* Your Work Order No. *WP/467/17* Dt: *08.08.2017*

[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 14.12.21			
[d] Sampling Location	Boiler No. 10 of Sugar Mill			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%) 58	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	15.12.21			
[l] Analysis Start Date / Analysis Completion Date	15.12.21 / 17.12.21			
Parameters	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.		11		
4. Height of Stack above ground level (as reported)		40.00 M.		
5. Dia of Stack at Top (as reported)		2.55 M.		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		21.0		
8. Flue Gas Temperature, °C		91.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	9.0	
10. Volumetric Flow Rate (NM ³ /hr.)			135397.3	
11. Sampling Point			19.00 M.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	154.8	500.00 mg / NM ³ (12% CO ₂)	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	11.1	Not Specified	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	19.1	Not Specified	



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03/01/2022
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Quality Manager / CEO

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TEST REPORT

Ref. No. MS/TR/21-22/3083 Dt: 03.01.2022 Your Work Order No. WP/467/17 Dt: 08.08.2017

[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	SHIVA TEST HOUSE on 14.12.21		
[d] Sampling Location	Boiler No. 11 of Sugar Mill		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Sample Quantity	1		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	15.12.21		
[l] Analysis Start Date / Analysis Completion Date	15.12.21 / 17.12.21		

Parameters	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)		40.00 M.	
5. Dia of Stack at Top (as reported)		2.50 M.	
6. Material of Construction		M.S.	
7. Ambient Temperature, °C		21.0	
8. Flue Gas Temperature, °C		106.0	
9. Velocity, m/sec.		8.4	
10. Volumetric Flow Rate (NM ³ /hr.)		116656.4	
11. Sampling Point		21.00 M.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	187.5	500.00 mg / NM ³ (12% CO ₂)
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	14.3	Not Specified
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	20.8	Not Specified



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Quality Manager / CEO

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Contact us : 122-C, Aastha, Road No. 5A, Patliputra Colony, Patna - 800 013 (Bihar)



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TEST REPORT

Ref. No. <i>MS/TR/21-22/3084</i> Dt: <i>03.01.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>05.05.2017</i>						
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454					
[b] Details of Sample	Monitoring of Ambient Air Quality					
[c] Sample Collected by	Shiva Test House on 14.12.21					
[d] Sampling Location	Within Premises of Sugar Mill					
[e] Method of Sampling	IS 5182 (Part - 14)					
[f] Sampling Environmental Condition	Temp. (°C) 21 Humidity (%) 58					
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger					
[h] Sample Quantity	4 Nos.					
[i] Items required to be tested	As per contract					
[j] Whether any specific Method of Test has been suggested by the customer	No					
[k] Date of receiving the sample in Laboratory	15.12.21					
[l] Analysis Start Date / Analysis Completion Date	15.12.21 / 17.12.21					
Parameters	Method of Test	Sampling Station				Specification as per NAAQS (Nov. '2009)
		Near Guest House	Near Store	Near Cooling Tower	Near Main Gate	
[a] Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	85.5	84.5	87.9	87.7	
		78.2	89.3	84.5	81.9	
		73.5	75.7	78.3	82.7	
[b] Particulate Matter (PM _{2.5}), µg / m ³	CPCB	43.4	48.8	51.4	52.1	
		45.5	43.6	47.6	51.4	
		36.9	41.9	44.5	48.1	
[c] Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	12.1	12.3	15.2	16.9	
		15.5	15.8	16.2	18.6	
		11.9	12.1	18.0	17.3	
		17.2	17.5	13.1	13.3	
		12.8	13.1	10.5	14.1	
[d] Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	11.4	11.7	10.1	15.4	
		38.9	45.4	43.0	49.1	
		35.5	49.4	47.6	48.0	
		41.0	47.5	43.2	46.2	
		45.0	43.4	41.5	43.6	
24 Hrs. Average Value		37.0	40.8	44.1	40.8	
		30.1	46.1	40.1	45.6	
PM ₁₀		79.1	83.2	83.6	84.4	100 µg / m ³
PM _{2.5}		41.9	44.8	47.8	50.5	60 µg / m ³
SO ₂		13.5	13.7	13.8	15.9	80 µg / m ³
NO ₂		37.9	45.4	43.3	45.6	80 µg / m ³



[Signature]
03/01/2022
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. *MS/TR/21-22/3085* Dt: *03.01.2022* Your Work Order No. *WP/467/17* Dt: *08.08.2017*

[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 Noise Level			
[c] Sample Collected by	Shiva Test House on 14/15.12.20			
[d] Sampling Location	Within Premises of Sugar Mill			
[e] Method of Sampling	IS 9989 – 1981 (Reaff. 2001)			
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%)	58
[g] Items required to be tested	As per contract			
[h] Whether any specific Method of Test has been suggested by the customer	No			
Sampling Location	TWA of Noise Level in dB(A)			
	Day Time (6:00 am to 9:00 pm)		Night time (10:00 pm to 6:00 am)	
1. Near Main Gate	67.3		63.1	
2. Near Guest House	63.7		55.9	
3. Near Cooling Tower	69.1		61.1	
4. Near ETP	67.2		61.3	
5. Near Sugar Godown	66.5		60.2	
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.			



Handwritten Signature
03/01/2022

Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. **MSIPL/TR/21-22/3086** Dt: **03.01.2022** Your Work Order No. **WP/467/17** Dt: **08.08.2017**

[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454
[b] Details of Sample	Water sample
[c] Sample Collected by	SHIVA TEST HOUSE on 14.12.21
[d] Sampling Location	Collected from Borewell within premises
[e] Method of Sampling	IS 3025, APHA
[f] Sampling Environmental Condition	Temp. (°C) 21 Humidity (%) 58
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)
[h] Sample Quantity	2 Litres
[i] Items required to be tested	As per contract
[j] Whether any specific Method of Test has been suggested by the customer	No
[k] Date of receiving the sample in Laboratory	15.12.21
[l] Analysis Start Date / Analysis Completion Date	15.12.21 / 17.12.21

S. N.	Parameters	Limit as per IS 10500 : 2012		Method of Test	Results in mg/l. except colour, Odour, Taste, Turbidity, & pH
		Limit (mg/l.) Acceptable	Permissible Limit in the absence of alternative source		
1	Colour	5 Hazen Limit	15		
2	Odour	Agreeable	Agreeable	IS 3025 (Part-4)	< 5.00
3	Taste	Agreeable	Agreeable	IS 3025 (Part-5)	Agreeable
4	pH	6.5 to 8.5	--	IS 3025 (Part-7))	Agreeable
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-11)	7.15
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-10)	<1.0
7	Total Hardness as CaCO ₃	200.00	600.00	IS 3025 (Part-16)	296.0
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-21)	192.0
9	Magnesium as Mg	30.00	100.00	IS 3025 (Part-40)	49.5
10	Iron as Fe	1.0	No relaxation	IS 3025 (Part-46)	16.7
11	Total Alkalinity as CaCO ₃	200.00	600.00	IS 3025 (Part-53)	0.42
12	Chloride as Cl	250.00	1000.00	IS 3025 (Part-23)	176.0
13	Sulphate as SO ₄	200.00	400.00	IS 3025 (Part-32)	18.0
14	Nitrate as NO ₃	45.00	No relaxation	APHA (4500-E)	20.4
15	Fluoride as F	1.00	1.50	APHA (4500 NO3 - B) APHA 4500 (F D)	2.8 0.40



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Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MSIPL/TR/21-22/3086(a)</i>	Dt: <i>03.01.2022</i>	Your Work Order No. <i>WP/467/17</i>	Dt: <i>08.08.2017</i>
[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	<i>Water sample</i>		
[c] Sample Collected by	SHIVA TEST HOUSE on <i>14.12.21</i>		
[d] Sampling Location	<i>Collected from Borewell within premises</i>		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%) 58
[g] Details of Sample Container (No. & Type of Container)	Sterilized Glass Bottle (01)		
[h] Sample Quantity	300 ml		
[i] Items required to be tested	As per contract.		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	<i>15.12.21</i>		
[l] Analysis Start Date / Analysis Completion Date	<i>15.12.21 / 17.12.21</i>		
BACTERIOLOGICAL EXAMINATION OF WATER			
Parameters	Limit as per IS 10500 : 2012	Method of Test	Results (CFU / 100 ml.)
Total Coliform	Shall not be detectable in 100 ml.	IS 15185 : 2016	Absent



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Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MS/TR/21-22/3530</i> Dt: <i>18.01.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>			
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454		
[b] Details of Sample	Untreated Effluent sample		
[c] Sample Collected by	SHIVA TEST HOUSE on 08.01.22		
[d] Sampling Location	From Inlet of ETP		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	16	Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	09.01.22		
[l] Analysis Start Date / Analysis Completion Date	09.01.22 / 12.01.22		
Sl. No.	Parameters	Method of Test	Result (in mg/l.) except pH, Colour
1.	Colour	IS 3025 (Part-4)	Passes Test
2.	pH	IS 3025 (Part-11)	8.28
3.	Suspended Solids	IS 3025(Part-17)	380.0
4.	Total Dissolved Solids	IS 3025(Part-16)	2600.0
5.	Oil & Grease	IS 3025 (Part-39)	4.2
6.	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	520.0
7.	C.O.D.	APHA 5220 B	1440.0
8.	Dissolved Phosphate as P	APHA (4500-P-D)	4.8
9.	Ammonical Nitrogen as N	IS 3025 (Part-34)	28.0
10.	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	50.4



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TEST REPORT

Ref. No. <i>MS/TR/21-22/3531</i> Dt: <i>18.01.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>				
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454		
[b] Details of Sample		Treated Effluent sample		
[c] Sample Collected by		SHIVA TEST HOUSE on 08.01.22		
[d] Sampling Location		From Outlet of ETP		
[e] Method of Sampling		IS 3025, APHA		
[f] Sampling Environmental Condition		Temp. (°C)	16	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)		
[h] Sample Quantity		2 Litres		
[i] Items required to be tested		As per contract		
[j] Whether any specific Method of Test has been suggested by the customer		No		
[k] Date of receiving the sample in Laboratory		09.01.22		
[l] Analysis Start Date / Analysis Completion Date		09.01.22 / 12.01.22		
S. N.	Parameters	Method of Test	Limit as per E (P) Rules Schedule VI	Result (in mg/l.) except pH, Colour
1	Colour	IS 3025 (Part-4)	Not Specified	Colourless
2	pH	IS 3025 (Part-11)	5.5 to 8.5	7.36
3	Suspended Solids	IS 3025(Part-17)	100.0	52.0
4	Total Dissolved Solids	IS 3025(Part-16)	2100.00	740.0
5	Oil & Grease	IS 3025 (Part-39)	10.00	1.1
6	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	100.00	24.0
7	C.O.D.	APHA 5220 B	Not Specified	112.0
8	Dissolved Phosphate as P	APHA (4500-P-D)	Not Specified	1.4
9	Ammonical Nitrogen as N	IS 3025 (Part-34)	Not Specified	11.8
10	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	Not Specified	19.0



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TEST REPORT

Ref. No. <i>MS/TR/21-22/3532</i> Dt: <i>18.01.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>				
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 08.01.22			
[d] Sampling Location	Boiler No. 9 of Sugar Mill			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	16	Humidity (%) 72	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	09.01.22			
[l] Analysis Start Date / Analysis Completion Date	09.01.22 / 11.01.22			
Parameters	Method of Test	Results		
1. Type of Fuel		Bagasse		
2. Stack Connected to		Dumping Grate Boiler No. 9 having Steam generation capacity 32.0 T / hr.		
3. Stack No.		I		
4. Height of Stack above ground level (as reported)		30.00 M.		
5. Dia of Stack at Top (as reported)		1.55 M.		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		16.0		
8. Flue Gas Temperature, °C		90.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	8.4	
10. Volumetric Flow Rate (NM ³ /hr.)			46819.3	
11. Sampling Point			11.00 M.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	172.2	500.00 mg / NM ³ (12% CO ₂)	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	12.4	Not Specified	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	24.1	Not Specified	



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TEST REPORT

Ref. No. *MS/TR/21-22/3533* Dt: *18.01.2022* Your Work Order No. *WP/467/17* Dt: *08.08.2017*

[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	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on 08.01.22			
[d] Sampling Location	<i>Boiler No. 10 of Sugar Mill</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	16	Humidity (%) 72	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	09.01.22			
[l] Analysis Start Date / Analysis Completion Date	09.01.22 / 11.01.22			
Parameters	Method of Test	Results		
1. Type of Fuel		Bagasse		
2. Stack Connected to		Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.		
3. Stack No.		II		
4. Height of Stack above ground level (as reported)		40.00 M.		
5. Dia of Stack at Top (as reported)		2.55 M.		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		16.0		
8. Flue Gas Temperature, °C		86.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	8.5	
10. Volumetric Flow Rate (NM ³ /hr.)			130018.4	
11. Sampling Point			19.00 M.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	136.2	500.00 mg / NM ³ (12% CO ₂)	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	12.8	Not Specified	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	20.4	Not Specified	



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TEST REPORT

Ref. No. *MS/TR/21-22/3534* Dt: *18.01.2022* Your Work Order No. *WP/467/17* Dt: *08.08.2017*

[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	<i>Monitoring of Stack Emission</i>		
[c] Sample Collected by	SHIVA TEST HOUSE on 08.01.22		
[d] Sampling Location	<i>Boiler No. 11 of Sugar Mill</i>		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	16	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Sample Quantity	1		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	09.01.22		
[l] Analysis Start Date / Analysis Completion Date	09.01.22 / 11.01.22		

Parameters	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)		40.00 M.		
5. Dia of Stack at Top (as reported)		2.50 M.		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		16.0		
8. Flue Gas Temperature, °C		98.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	8.2	
10. Volumetric Flow Rate (NM ³ /hr.)			116334.5	
11. Sampling Point			21.00 M.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	166.8	500.00 mg / NM ³ (12% CO ₂)	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	15.6	Not Specified	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	22.2	Not Specified	



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TEST REPORT

Ref. No. <i>MS/TR/21-22/3535</i> Dt: <i>18.01.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>						
[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	<i>Monitoring of Ambient Air Quality</i>					
[c] Sample Collected by	<i>Shiva Test House on 08.01.22</i>					
[d] Sampling Location	<i>Within Premises of Sugar Mill</i>					
[e] Method of Sampling	IS 5182 (Part - 14)					
[f] Sampling Environmental Condition	Temp. (°C) 16 Humidity (%) 72					
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger					
[h] Sample Quantity	4 Nos.					
[i] Items required to be tested	As per contract					
[j] Whether any specific Method of Test has been suggested by the customer	No					
[k] Date of receiving the sample in Laboratory	<i>09.01.22</i>					
[l] Analysis Start Date / Analysis Completion Date	<i>09.01.22 / 11.01.22</i>					
Parameters	Method of Test	Sampling Station				Specification as per NAAQS (Nov.'2009)
		Near Guest House	Near Store	Near Cooling Tower	Near Main Gate	
[a] Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	88.3	87.9	91.4	90.3	
		81.8	92.9	87.9	84.4	
		74.5	78.7	81.4	85.2	
[b] Particulate Matter (PM _{2.5}), µg / m ³	CPCB	49.5	50.8	53.5	53.7	
		44.8	45.3	49.5	52.9	
		41.5	43.6	46.3	49.5	
[c] Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	15.5	12.8	15.8	17.4	
		14.4	16.4	16.8	19.2	
		13.5	12.6	18.7	17.8	
		12.1	18.2	13.6	13.7	
		11.5	13.6	10.9	14.5	
[d] Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	11.3	12.2	10.5	15.9	
		36.3	47.2	44.7	50.6	
		35.5	51.4	49.5	49.4	
		31.8	49.4	44.9	47.6	
		31.2	45.1	43.2	44.9	
		28.6	42.4	45.9	42.0	
		28.9	47.9	41.7	47.0	
24 Hrs. Average Value						
		81.5	86.5	86.9	86.6	100 µg / m ³
		45.3	46.6	49.7	52.0	60 µg / m ³
		13.1	14.3	14.4	16.0	80 µg / m ³
		32.0	47.3	45.0	46.9	80 µg / m ³



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Quality Manager / CEO

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TEST REPORT

Ref. No. *MS/TR/21-22/3536* Dt: *18.01.2022* Your Work Order No. *WP/467/17* Dt: *08.08.2017*

[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 Noise Level		
[c] Sample Collected by	Shiva Test House on 08/09.01.22		
[d] Sampling Location	Within Premises of Sugar Mill		
[e] Method of Sampling	IS 9989 – 1981 (Reaff. 2001)		
[f] Sampling Environmental Condition	Temp. (°C)	16	Humidity (%) 72
[g] Items required to be tested	As per contract		
[h] Whether any specific Method of Test has been suggested by the customer	No		
Sampling Location	TWA of Noise Level in dB(A)		
	<i>Day Time (6:00 am to 9:00 pm)</i>	<i>Night time (10:00 pm to 6:00 am)</i>	
1. Near Main Gate	68.1	62.9	
2. Near Guest House	63.9	55.5	
3. Near Cooling Tower	69.6	62.2	
4. Near ETP	67.8	61.5	
5. Near Sugar Godown	65.5	60.3	
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.		



Shr. yasna Pal
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. *MS/TR/21-22/4010* Dt: *25.02.2022* Your Work Order No. *WP/467/17* Dt : *08.08.2017*

[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	<i>Untreated Effluent sample</i>		
[c] Sample Collected by	SHIVA TEST HOUSE on <i>07.02.22</i>		
[d] Sampling Location	<i>From Inlet of ETP</i>		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C)	18	Humidity (%) 62
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)		
[h] Sample Quantity	2 Litres		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	<i>08.02.22</i>		
[l] Analysis Start Date / Analysis Completion Date	<i>08.02.22 / 11.02.22</i>		
Sl. No.	Parameters	Method of Test	Result (in mg/l.) except pH, Colour
1.	Colour	IS 3025 (Part-4)	Passes Test
2.	pH	IS 3025 (Part-11)	8.21
3.	Suspended Solids	IS 3025(Part-17)	410.0
4.	Total Dissolved Solids	IS 3025(Part-16)	2540.0
5.	Oil & Grease	IS 3025 (Part-39)	4.6
6.	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	490.0
7.	C.O.D.	APHA 5220 B	1240.0
8.	Dissolved Phosphate as P	APHA (4500-P-D)	4.4
9.	Ammonical Nitrogen as N	IS 3025 (Part-34)	23.5
10.	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	44.8



Shreyas
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MS/TR/21-22/4011</i> Dt: <i>25.02.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>				
[a] Name and address of the Customer		Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhulia W.Champaran – 845 454		
[b] Details of Sample		Treated Effluent sample		
[c] Sample Collected by		SHIVA TEST HOUSE on 07.02.22		
[d] Sampling Location		From Outlet of ETP		
[e] Method of Sampling		IS 3025, APHA		
[f] Sampling Environmental Condition		Temp. (°C)	18	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)		
[h] Sample Quantity		2 Litres		
[i] Items required to be tested		As per contract		
[j] Whether any specific Method of Test has been suggested by the customer		No		
[k] Date of receiving the sample in Laboratory		08.02.22		
[l] Analysis Start Date / Analysis Completion Date		08.02.22 / 11.02.22		
S. N.	Parameters	Method of Test	Limit as per E (P) Rules Schedule VI	Result (in mg/l.) except pH, Colour
1	Colour	IS 3025 (Part-4)	Not Specified	Colourless
2	pH	IS 3025 (Part-11)	5.5 to 8.5	7.45
3	Suspended Solids	IS 3025(Part-17)	100.0	44.0
4	Total Dissolved Solids	IS 3025(Part-16)	2100.00	720.0
5	Oil & Grease	IS 3025 (Part-39)	10.00	1.3
6	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	100.00	25.0
7	C.O.D.	APHA 5220 B	Not Specified	120.0
8	Dissolved Phosphate as P	APHA (4500-P-D)	Not Specified	1.2
9	Ammonical Nitrogen as N	IS 3025 (Part-34)	Not Specified	10.6
10	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	Not Specified	17.4



Shreyas Singh
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MS/TR/21-22/4015</i> Dt: <i>25.02.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>						
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVI. LTD. P.O.: Majhaulia W.Champaran – 845 454					
[b] Details of Sample	Monitoring of Ambient Air Quality					
[c] Sample Collected by	Shiva Test House on 07.02.22					
[d] Sampling Location	Within Premises of Sugar Mill					
[e] Method of Sampling	IS 5182 (Part - 14)					
[f] Sampling Environmental Condition	Temp. (°C) 18 Humidity (%) 62					
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger					
[h] Sample Quantity	4 Nos.					
[i] Items required to be tested	As per contract					
[j] Whether any specific Method of Test has been suggested by the customer	No					
[k] Date of receiving the sample in Laboratory	08.02.22					
[l] Analysis Start Date / Analysis Completion Date	08.02.22 / 10.02.22					
Parameters	Method of Test	Sampling Station				Specification as per NAAQS (Nov. 2009)
		Near Guest House	Near Store	Near Cooling Tower	Near Main Gate	
[a] Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	89.4	93.2	89.6	84.9	
		86.7	85.2	90.9	79.3	
		79.0	83.4	86.3	80.1	
[b] Particulate Matter (PM _{2.5}), µg / m ³	CPCB	49.6	49.3	51.0	50.5	
		47.5	48.0	50.5	49.7	
		44.0	46.2	49.1	46.5	
[c] Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	13.1	13.6	15.3	16.4	
		14.6	17.4	16.1	18.0	
		14.3	13.4	17.1	16.7	
		12.8	19.3	14.4	12.9	
		12.2	14.4	11.6	13.6	
[d] Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	12.0	12.9	11.1	14.9	
		38.5	50.0	47.4	47.6	
		37.6	47.1	51.3	46.4	
		33.7	45.7	47.6	44.7	
		33.1	47.8	45.8	42.2	
24 Hrs. Average Value		30.3	44.9	44.7	39.5	
		30.6	50.8	44.2	44.2	
		85.0	87.3	88.9	81.4	100 µg / m ³
		47.0	47.8	50.2	48.9	60 µg / m ³
		13.2	15.2	14.3	15.4	80 µg / m ³
		34.0	47.7	46.8	44.1	80 µg / m ³



Shruti Patel
Authorized Signatory
Quality Manager / CEO

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Mob.: +918676886249 ; +919431047908 Email: sthpamal@yahoo.co.in ; info@shivatest.com
Website: www.shivatest.com ; www.shivatesthouse.com





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TEST REPORT

Ref. No. <i>MS/TR/21-22/4016</i> Dt: <i>25.02.2022</i> Your Work Order No. <i>WP/467/17</i> Dt: <i>08.08.2017</i>			
[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	<i>Monitoring of Ambient Noise Level</i>		
[c] Sample Collected by	<i>Shiva Test House on 07/08.02.22</i>		
[d] Sampling Location	<i>Within Premises of Sugar Mill</i>		
[e] Method of Sampling	IS 9989 – 1981 (Reaff. 2001)		
[f] Sampling Environmental Condition	Temp. (°C)	18	Humidity (%) 62
[g] Items required to be tested	As per contract		
[h] Whether any specific Method of Test has been suggested by the customer	No		
Sampling Location	TWA of Noise Level in dB(A)		
	Day Time (6:00 am to 9:00 pm)	Night time (10:00 pm to 6:00 am)	
1. Near Main Gate	68.7	61.8	
2. Near Guest House	65.2	55.1	
3. Near Cooling Tower	69.9	63.1	
4. Near ETP	68.1	61.3	
5. Near Sugar Godown	65.8	60.2	
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.		



Shr...
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. *MSIPL/TR/21-22/4017* Dt : *25.02.2022* Your Work Order No. *WP/467/17* Dt : *08.08.2017*

[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454			
[b] Details of Sample	<i>Water sample</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>07.02.22</i>			
[d] Sampling Location	<i>Collected from Borewell Near Guest House</i>			
[e] Method of Sampling	IS 3025, APHA			
[f] Sampling Environmental Condition	Temp. (°C)	18	Humidity (%)	62
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)			
[h] Sample Quantity	2 Litres			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	<i>08.02.22</i>			
[l] Analysis Start Date / Analysis Completion Date	<i>08.02.22 / 10.02.22</i>			

S. N.	Parameters	Limit as per IS 10500 : 2012		Method of Test	Results in mg/l. except colour, Odour, Taste, Turbidity, & pH
		Limit (mg/l.) Acceptable	Permissible Limit in the absence of alternative source		
1	Colour	5 Hazen Limit	15	IS 3025 (Part-4)	< 5.00
2	Odour	Agreeable	Agreeable	IS 3025 (Part-5)	Agreeable
3	Taste	Agreeable	Agreeable	IS 3025 (Part-7))	Agreeable
4	pH	6.5 to 8.5	--	IS 3025 (Part-11)	7.19
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-10)	<1.0
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-16)	324.0
7	Total Hardness as CaCO ₃	200.00	600.00	IS 3025 (Part-21)	236.0
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-40)	62.5
9	Magnesium as Mg	30.00	100.00	IS 3025 (Part-46)	19.4
10	Iron as Fe	1.0	No relaxation	IS 3025 (Part-53)	0.48
11	Total Alkalinity as CaCO ₃	200.00	600.00	IS 3025 (Part-23)	192.0
12	Chloride as Cl	250.00	1000.00	IS 3025 (Part-32)	22.0
13	Sulphate as SO ₄	200.00	400.00	APHA (4500-E)	24.4
14	Nitrate as NO ₃	45.00	No relaxation	APHA (4500 NO3 – B)	2.2
15	Fluoride as F	1.00	1.50	APHA 4500 (F D)	0.38



Shyam S. S.
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. *MSIPL/TR/21-22/4017(a)* Dt: *25.02.2022* Your Work Order No. *WP/467/17* Dt: *08.08.2017*

[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	<i>Water sample</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>07.02.22</i>			
[d] Sampling Location	<i>Collected from Borewell Near Guest House</i>			
[e] Method of Sampling	IS 3025, APHA			
[f] Sampling Environmental Condition	Temp. (°C)	18	Humidity (%)	62
[g] Details of Sample Container (No. & Type of Container)	Sterilized Glass Bottle (01)			
[h] Sample Quantity	300 ml			
[i] Items required to be tested	As per contract.			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	<i>08.02.22</i>			
[l] Analysis Start Date / Analysis Completion Date	<i>08.02.22 / 09.02.22</i>			

BACTERIOLOGICAL EXAMINATION OF WATER

Parameters	Limit as per IS 10500 : 2012	Method of Test	Results (CFU / 100 ml.)
Total Coliform	Shall not be detectable in 100 ml.	IS 15185 : 2016	Absent



Shr...at...H.
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. *MSIPL/TR/21-22/4519* Dt: *21.03.2022* Your Work Order No. *WP/467/17* Dt: *08.08.2017*

[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	<i>Water sample</i>
[c] Sample Collected by	SHIVA TEST HOUSE on 11.03.22
[d] Sampling Location	<i>Collected from Borewell Near Guest House</i>
[e] Method of Sampling	IS 3025, APHA
[f] Sampling Environmental Condition	Temp. (°C) 27 Humidity (%) 51
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)
[h] Sample Quantity	2 Litres
[i] Items required to be tested	As per contract
[j] Whether any specific Method of Test has been suggested by the customer	No
[k] Date of receiving the sample in Laboratory	12.03.22
[l] Analysis Start Date / Analysis Completion Date	12.03.22 / 14.03.22

S. N.	Parameters	Limit as per IS 10500 : 2012		Method of Test	Results in mg/l. except colour, Odour, Taste, Turbidity, & pH
		Limit (mg/l.) Acceptable	Permissible Limit in the absence of alternative source		
1	Colour	5 Hazen Limit	15	IS 3025 (Part-4)	< 5.00
2	Odour	Agreeable	Agreeable	IS 3025 (Part-5)	Agreeable
3	Taste	Agreeable	Agreeable	IS 3025 (Part-7))	Agreeable
4	pH	6.5 to 8.5	--	IS 3025 (Part-11)	7.27
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-10)	<1.0
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-16)	336.0
7	Total Hardness as CaCO ₃	200.00	600.00	IS 3025 (Part-21)	240.0
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-40)	65.7
9	Magnesium as Mg	30.00	100.00	IS 3025 (Part-46)	18.5
10	Iron as Fe	1.0	No relaxation	IS 3025 (Part-53)	0.52
11	Total Alkalinity as CaCO ₃	200.00	600.00	IS 3025 (Part-23)	208.0
12	Chloride as Cl	250.00	1000.00	IS 3025 (Part-32)	22.0
13	Sulphate as SO ₄	200.00	400.00	APHA (4500-E)	24.4
14	Nitrate as NO ₃	45.00	No relaxation	APHA (4500 NO3 – B)	2.4
15	Fluoride as F	1.00	1.50	APHA 4500 (F D)	0.39



[Signature]
21/03/2022
Authorized Signatory
Quality Manager / CEO

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TEST REPORT

Ref. No. <i>MSIPL/TR/21-22/4519(a)</i> Dt : <i>21.03.2022</i> Your Work Order No. <i>WP/467/17</i> Dt : <i>08.08.2017</i>			
[a] Name and address of the Customer	Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhauria W.Champaran – 845 454		
[b] Details of Sample	Water sample		
[c] Sample Collected by	SHIVA TEST HOUSE on 11.02.22		
[d] Sampling Location	Collected from Borewell Near Guest House		
[e] Method of Sampling	IS 3025, APHA		
[f] Sampling Environmental Condition	Temp. (°C) 27 Humidity (%) 51		
[g] Details of Sample Container (No. & Type of Container)	Sterilized Glass Bottle (01)		
[h] Sample Quantity	300 ml		
[i] Items required to be tested	As per contract.		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	12.03.22		
[l] Analysis Start Date / Analysis Completion Date	12.03.22 / 13.03.22		
BACTERIOLOGICAL EXAMINATION OF WATER			
Parameters	Limit as per IS 10500 : 2012	Method of Test	Results (Present or Absent / 100 ml.)
Total Coliform	Shall not be detectable in 100 ml.	IS 15185 : 2016	Absent / 100 ml



[Signature]
21/03/2022
Authorized Signatory
Quality Manager / CEO

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