

WP/100/23

May 24, 2023

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

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

Dear Sir,

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

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

Thanking you, Yours Faithfully,

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

**Authorized Signatory** 



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

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

# DETAILED CONDITION COMPLIANCE OF ENVIRONMENTAL CLEARANCE

(PERIOD 01.10.2022 TO 31.03.2023)

|    | Conditions as per MoEF F. No. J-<br>11011/43/2009-IA II (I)  | Compliance De   | etails  |
|----|--|---|---|
| Sp | ecific Conditions  |   | lest in mot   |
| 1. | The waste water generation shall not exceed 500 m³/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. ever being operated. Our plant goes in Mar. every year during cane crushin During the period 2022-23, our suffrom Nov.'2022 to Mar.'2023. 648 m³/day of waste water is gen after treatment 605 m³/day it was crubber makeup, spray pond an achieve zero discharge. The dord disposed off in the soak pit inside to  | regarding from Nov. — ng period. gar mill was in operation were during season & was being used for wer and irrigation purpose to mestic effluent is being he premises.                                    |
| 2. | As per the CPCB requirement storage for<br>the treated effluent from the sugar unit shall<br>not exceed 15 days capacity   | We have constructed treated efflu<br>15 days storage capacity. (Capac<br>70m. x 2 m.).  | ity: 12600 m° {90m. >   |
| 3. | the Company American quality   | Adequate numbers of ground water been set up around the Project Arbeing done. Ground water analy Oct.'22 – Mar.'23 is as under;  Parameters  1. pH 2. Turbidity on NTU 3. Total Dissolved Solids (TDS) 4. Total Hardness as CaCO <sub>3</sub> 5. Calcium as Ca 6. Magnesium as Mg 7. Iron as Fe 8. Total Alkalinity as CaCO <sub>3</sub> 9. Chloride as Cl 10. Sulphate as SO <sub>4</sub> 11. Nitrate as NO <sub>3</sub> 12. Fluoride as F Analysis report is being attached | All values in mg/l. except pH & Turbidity Minm Maxm. Range  7.37 - 7.58  0.8 - 1.1  252 - 295  182 - 216  43.3 - 52.9  15.1 - 20.4  0.20 - 0.42  196 - 232  10 - 18  16.2 - 23.8  1.36 - 2.2  0.27 - 0.34 |
| 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> <li>3 Nos. Boilers have been equip</li> <li>Emission is being dispersed the 30 m., 40 m &amp; 40 m.</li> <li>1 no. silent DG Set of 600 season.</li> </ul>   | pped with Wet Scrubber<br>hrough the stack of heig  |

|    | Conditions as per MoEF F. No. J-<br>11011/43/2009-IA II (I)  | Compliance Details   |
|----|--|--|
|    | 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 <sub>2</sub> , NOx (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 | We have uploaded the compliance of stipulated environmental clearance conditions on company's website <a href="https://www.jayshreesugar.in">www.jayshreesugar.in</a> . Update of compliance is done of periodical basis.  |
| 6. | in the public domain.  The company shall obtain permission from the State/Ground Water Department to draw the water as may be applicable to this case.   | We have obtained NOC for ground water withdrawal from CGWB vide NOC No. CGWA/NOC/IND/REN/1/2021/6499, valid upto 31.12.2022. Renewal Application has been submitted and it is under process. (Copy enclosed).  |
| 7. | Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant and compost yard as per the CPCB guidelines in consultation with the local DFO  | Green belt in 33% of the plant area is being developed. Green belt is being developed with the consultation of DFO. (Already submitted in Jun.'11 six monthly report.)   |
| 8. | aball adopt rain water   | We have implemented rain water harvesting plan as perguidelines of CGWB.   |
| G  | eneral Conditions  |  |
| 1. | or modifications in the  | & 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 <sub>2</sub> , NOx are anticipated in consultation with the State Pollution Control Board  | plant. The AAQ monitoring results (average values) of Nov.'22 – Mar.'23 shows that PM <sub>10</sub> varied between 75.6 81.9 μg/m <sup>3</sup> , PM <sub>2.5</sub> varied between 38.4 – 41.1 μg/m <sup>3</sup> , SC varied between 12.8 – 14.6 μg/m <sup>3</sup> & NO <sub>2</sub> varied between 31.5 – 36.6 μg/m <sup>3</sup> Attached as <b>Annexure</b> – <b>II</b>   |
|    | 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   | sampling stations have been set up in consultation with state Pollution Control Board. Analysis of treated effluence is being done on regular basis during operation of plantal Analysis trends of treated effluent shows that values of plantal plant |

## Conditions as per MoEF F. No. J-11011/43/2009-IA II (I)

## Compliance Details

4. The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.

Characteristics of Treated Effluent & Stack Emissions a within the norms stipulated under the EPA Rules.

Monitoring of Stack Emission is being done on regul basis (during operation of Sugar mill). Stack Emissi Monitoring results for the period Nov.'22 to Mar.'23 shorthat concentration of PM varied from 23.3 – 47.3 mg/NN SO<sub>2</sub> varied from 11.3 – 16.9 mg/NM<sup>3</sup> & NO<sub>2</sub> varied from 14.3 – 41.8 mg/NM<sup>3</sup>.

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 wit the prescribed limits under EPA Rules.

The Ambient noise level during Nov.'22 – Feb.'23 per for day time varied from 57.3 – 68.8 dB(A) & for night ti varied from 47.6 – 56.1 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 safeguare 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 appoil for regular health check up for the employees and emergency services is being provided to nearby areas. records of health check up of the employees are be 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 Te of Treated Effluent.

Environment Management Cell is formed under Chairmanship of Unit Head.

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 22.5 lacs) for both recurring and non-recurring expen to implement the conditions stipulated by Minist Environment & Forests as well as the State Governme

| - Y T   | * Compliance Details   |
|---|--|
| Conditions as per MoEF F. No. J-  | Companie   |
| 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   | Already submitted in Dec.'10 six monthly report.   |
| copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Copies of CPCB and the State   | We are submitting 6-monthly EC compliance repor regularly in the month of June and December every year.  |
| Pollution Control Board.  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 |  |
| forwarded to the Regional office  13. The Project Authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approva of the project by the concerned authoritie and the date of start of land development.  | The proposed expansion work has been completed for 5 TCD from 3500 TCD in Nov.'10 and our factory is run with the expanded capacity from the season 2010-11. |

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# 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)/ 4/19

Patna, dated- 03.12-19

# 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/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

1 That, he/they shall not make any alteration, addition, deletion or modification in the with the following conditions: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 Movement), and Transboundary 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,

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,

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: That, the unit shall complete laying of pipeline from ETO to lined lagoon and

irrigation pipeline network within one month;

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

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

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

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 Majhaulia Sugar Industries Pvt. Ltd, At & P.O.-Majhaulia, District- West Champaran-845454.

(Alok Kumar) Member-Secretary

2/3/12/18

BIHAR STATE POLLUTION CONTROL BOARD

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

PATLIPUTRA, Patna - 800 010

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

Patna, dated-03.12.10

## EMISSION 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 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:-

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;

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;

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;

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;

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 31<sup>st</sup> 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.

> (Alok Kumar) Member-Secretary

3/3/12/18

3



# BIHAR STATE POLLUTION CONTROL BOARD

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

## FORM 2

[See rule 6(2)]

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

Patna, dated-21.5-18

1. Number of authorization and date of issue : HW/B-9-17.11.2017
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**

|   | Details of Authorization  | Quantity (Ton/Annum) |
|---|---|----------------------|
| SI. Category of<br>No. Hazardous Waste as<br>per the Schedules I, II  | utilization or co processing, etc.  |                      |
| and III of these rules  1. Used or Spent oil (HW cat. no. 5.1) and Oil & Grease Skimming (HW cat. no. 35.4) as per Schedule-I | <b>Used oil</b> : Generation, collection, storage, transportation and offer for sale for the purpose of its recycling to authorized recycler. |                      |

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):

- 1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made
- 2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the State
- 3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except
- 4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person
- 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
- 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
- 8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its
- 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:

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- 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
- d) The unit shall store its hazardous waste (Used Oil, HW cat. no. 5.1) for the temporary period in MS drums under covered shed for the purpose of its sale to the authorized recycler and oil and grease skimmed (HW category no. 35.4) for the incineration through authorized TSDF Facility or can be used as fuel in furnaces for energy recovery, if it meets the specifications laid down in Part-B of Schedule-V either as such or after reprocessing 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.

Member Secretary



# BIHAR STATE POLLUTION CONTROL BOARD

Parivesh Bhawan, Patliputra Industrial Area, Patna – 800 010 EPABX-0612-2281250/2282265, Fax-0612-2281050;

Email: bspcb@yahoo.com; Website -http://bspcb.bih.nic.in

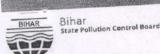
Field Inspection Report of M/s Manjhaulia Sugar Industries Pvt. Ltd. (Old Name: Jay Shree Sugar Mill), Manjhaulia, West Champaran.

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

e) The unit shall ensure that no damage is caused to environment during collection, storage & transportation of its HW.

Board Analyst.

12/16/22, 4:43 PM



Name and Address of Industry Name of Regional Office

Receipt No. Depositor Name

Bank Id. Bank Name. Application No.

Applied For

Payment Date

HWM Fee (Rs.)

Total Amount Paid (Rs.) Transaction Status

# Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change Government of India



Date: 15-12-2022



Welcome MAJHAULIA SUGAR INDUSTRIES PRIVATE LIMITED

# On-line Payment Receipt

807857298 S.K. Tapuriah 530

State Bank of India

MAJHAULIA SUGAR INDUSTRIES PRIVATE LIMITED, AT-MAJHAULIYA, WEST CHAMPARAN, MAJHAULIA, WEST CHAMPARAN

HWM

Fri Dec 16 16:37:53 IST 2022

Payment Details

2000.0

2009.44

Successfully Completed

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

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

Majhaulia Sugar Industries Pvt. Ltd.

Project Name:

\*\*DWLR - Digital Water Level Recorder

| Pi  | roject Addre   | ess:      |                                   | P.o.: N  | /lajhau  | lia, Di       | ist. Wes   | t Cha           | ımp           | paran             |                        |  |   |                     |                 |
|-----|----------------|-----------|-----------------------------------|----------|--|---------------|--|-----------------|---------------|-------------------|------------------------|--|---|---------------------|-----------------|
| Vi  | llage:         |           |                                   | Majhw    | Majhwalia  |               |  |                 |               | Block             | : Ma                   | jhaulia  |   |                     |                 |
| D   | istrict:       |           |                                   | Pasho    | ntral Ground Water Board Mid<br>yak Jai Prakash Bhawan, Fraz<br>/REN/1/2021/6499 |               |  |                 |               | State             | Bih                    | ar   | amparan, Bihar - 845454 Ramp;amp; 7th Floor, Lok y, Patna, Bihar - 800011  Safe  Renewal 31/12/2022  Total  m³/day  m³/year |                     |                 |
| Pi  | in Code:       |           |                                   |          |  |               |  |                 |               |                   |                        | 43   |   |                     |                 |
| C   | ommunicat      | on Addr   | ess:                              | Majha    | ulia, W  | est C         | hampar   | an, N           | /lajl         | haulia            | Pashchi                | m Champ  | aran, B   | ihar - 84           | 15454           |
| A   | ddress of C    | GWB Re    | egional Office :                  | Centra   | al Grou<br>Jai Pr  | nd W<br>akasi | ater Boah<br>Bhawa   | ard M<br>an, Fr | lid<br>az     | Easte<br>er Roa   | rn Regior<br>ad Dak Ba | n, 6th &an<br>anglow, P  | np;amp;<br>atna, B  | 7th Flo<br>har - 80 | or, Lok<br>0011 |
| 1.  | NOC No.:       |           | CGWA/NOC                          | /IND/RE  | EN/1/20  | 021/6         | 499  |                 |               |                   |                        |  |   |                     |                 |
|     | Applicatio     |           | 21-4/241/BR                       | /IND/20  | IND/2017   |               |  | 3.              | Categ<br>(GWF | gory:<br>RE 2020) |                        | Ramp; amp; 7th Floor, Lea, Patna, Bihar - 800011 Safe Renewal 31/12/2022 Total m³/day roposed No.:0 N TW MP MF |   |                     |                 |
| 4.  | Project St     | atus:     | Existing Gro                      | und Wa   | nd Water  d: Saline Water  ay m³/year m³/day  /Dewatering structures  ag No.:1   |               |  | 5.              | NOC           | Type:             | Re                     | Renewal  |   |                     |                 |
| 6.  |                |           | 01/01/2020                        |          |  |               |  | Valid           | up to:        | 31                | 31/12/2022             |  |   |                     |                 |
| 8.  | Ground W       | ater Abs  | straction Permit                  | ted:     |  |               |  |                 |               |                   |                        |  |   |                     |                 |
|     | Fresh          | Water     |                                   | Saline   | Water  |               |  |                 | De            | water             | ing                    |  | -   | -                   |                 |
|     | m³/day         | m³/y      | year m³/                          | day      | m <sup>3</sup>   | /year         |  | m³/da           | ay            |                   | m³/year                | m  | ³/day   | m <sup>3</sup>      | /year           |
|     | 659.00         |           | 75.00                             |          |  |               |  |                 |               |                   |                        |  |   |                     |                 |
| 9.  | Details of     | ground    | water abstraction                 | on /Dew  | atering  | struc         | ctures   |                 |               |                   |                        |  |   |                     |                 |
|     |                |           | Total Exist                       | ing No   | .:1  |               |  | -               |               | 1                 |                        | -  |   |                     | MD              |
|     |                |           | DW                                | DCB      | BW   | TW            | MP   | -               |               | DW                |                        | BW   | -   |                     | MPu             |
|     | Abstractio     | n Structu | ıre* 0                            | -        | 1  | -             | The state of the s | A               | T             | 0                 | 0                      | 0  | 0   | 0                   | 0               |
| *D\ | N- Dug Well; I | OCB-Dug-o | cum-Bore Well; BW                 | -Bore We | ell; TW-T  | ube W         | ell; MP-Mi   | ne Pit          | ;MP           | u-Mine            | Pumps                  | 400  |   |                     |                 |
| 10  | . Ground V     | Vater Ab  | straction/Resto                   | ration C | harges   | s paid        | (Rs.):   |                 |               |                   |                        |  | 557.00  |                     |                 |
| 11  | . Number o     | of Piezon | neters(Observa<br>tored & Monitor | tion we  | lls) to b  | ne<br>m.      | No. of   | Piezo           | ome           | eters             |                        | Monitori   |   |                     |                 |
|     |                |           |                                   |          |  |               |  |                 |               |                   | Manual                 | DWLR*  | DWL   | R With T            | elemetry        |

(Compliance Conditions given overleaf)

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

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

> पानी बचाये – जीवन बचाये SAVE WATER - SAVE LIFE

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

#### Mandatory conditions:

- .1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 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 / tube wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality date shall be made available to GGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt, approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m 3 /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.
- 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 & Illable for legal action as per provisions ronment (Protection) Act, 1986
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

#### General conditions:

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

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



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



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

Logout

Previous Login Date Time: 31/12/2022 16:24:38 PM , IP Address: 223.190.114.204 Applicant Home Apply Feedback Change Password Profile Submitted Grievance Payment RENEW - INDUSTRIAL USE: SUCCESSFUL SUBMISSION Print Application Your Application Submitted Successfully. Your Application Detail are ∠ Land Use Details Water Requirement Details Application Number: 21-4/241/BR/IND/2017 ☑ Recycled Water Usage Details of Existing CGWA/NOC/IND/REN/1/2021/6499 ☑ Groundwater Abstraction (01/01/2020 - 31/12/2022) Structure-Existing ☑ Groundwater Abstraction Applied For Renewal: 2nd Structure- Proposed Name of Industry: MAJHAULIA SUGAR INDUSTRIES PVT. LTD. ☑ Other Details ✓ Attachment Submitted Date: 31/12/2022 K Ready To Submit Net Ground Water Requirement: 659.00 E Final Submit Please note your application number for future reference. Your application has been submitted to office: Regional Director Central Ground Water Board Mid Eastern Region 6th & amp; 7th Floor Lok Nayak Jai Prakash Bhawan Frazer Road Dak Banglow PATNA BIHAR PinCode: 800011

Application Name

Application Number

Application Number

Amount

Transaction Id

Transaction Date

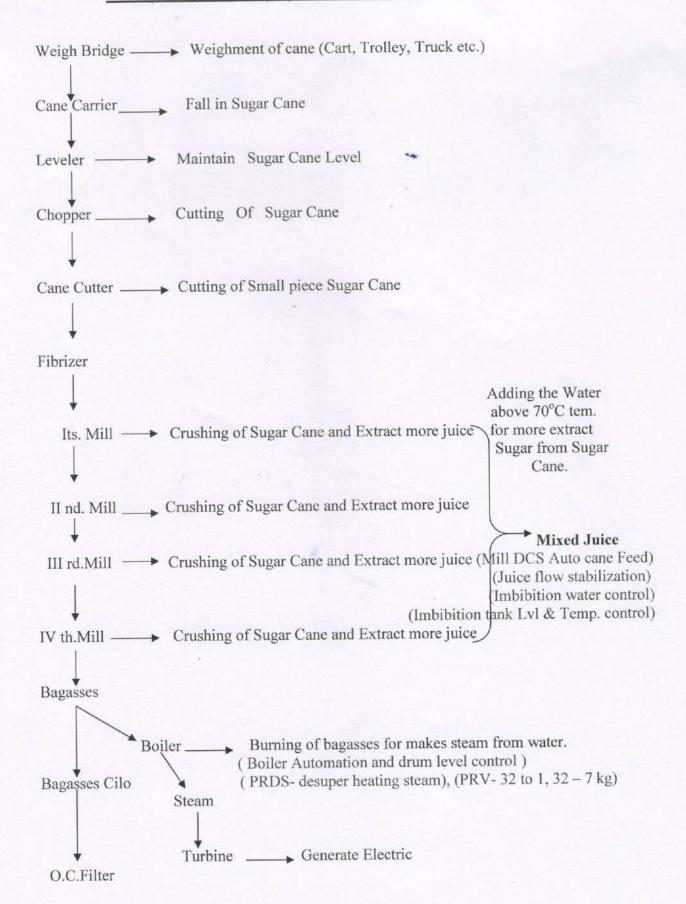
Transaction Status

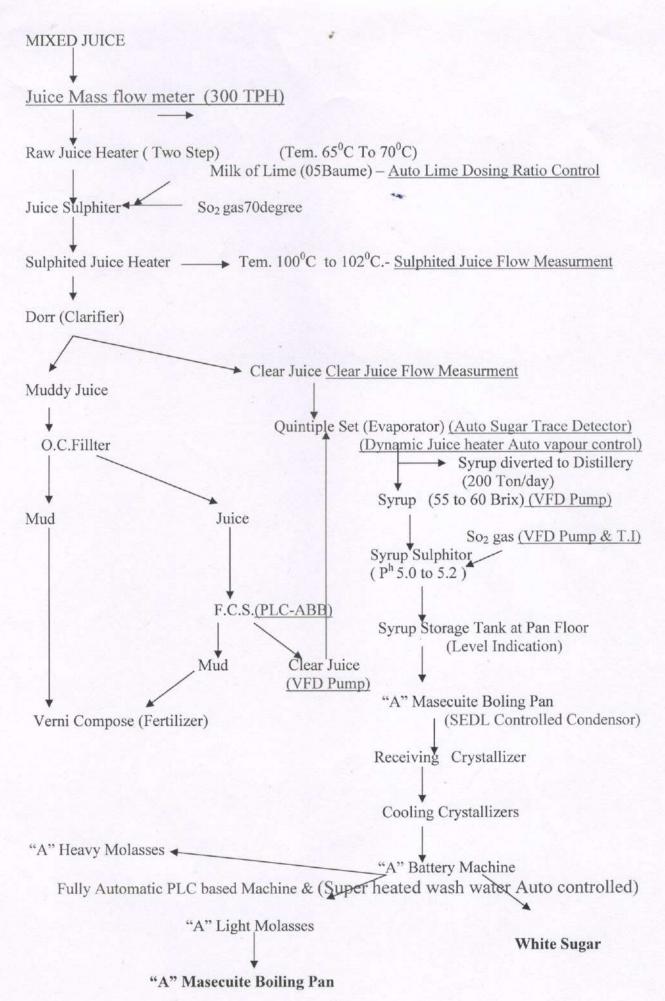
Note: Please keep these information for future reference

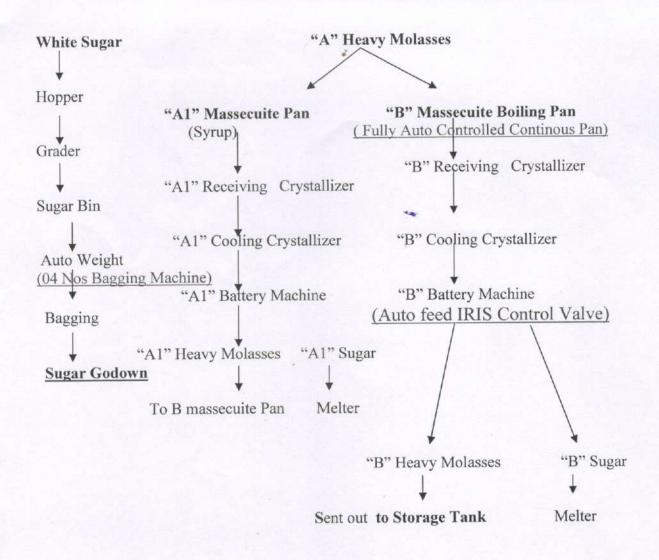
Home

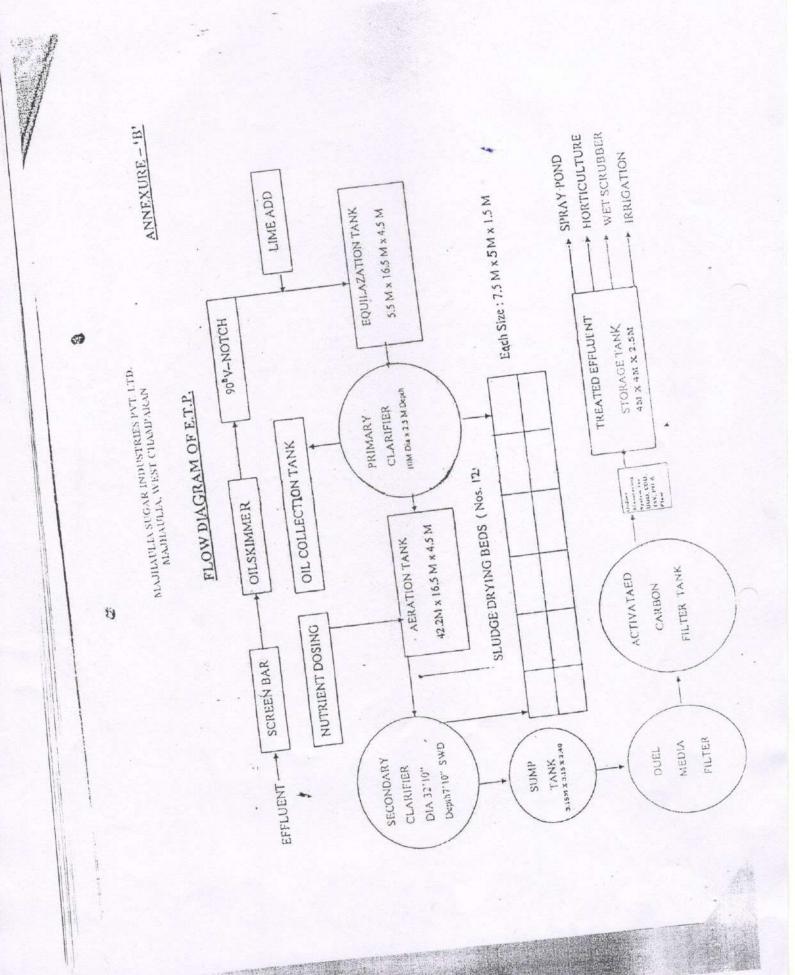
## Majhaulia sugar Industries Pvt. Ltd. MAJHAULIA

## Process Flow Chart Year 2021-22













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|                                      |                                     | 1             | TEST I    | REPORT   |  |  |              |  |  |  |
|--------------------------------------|-------------------------------------|---------------|-----------|--|--|--|--------------|--|--|--|
| Ref.                                 | No. STH/TR/22-23/6868               | Dt: 20.03.    | 2023      | Your W   | ork Order No. 1  | WP/215/22 D  | t: 08.08.202 |  |  |  |
| [a] Name and address of the Customer |                                     |               |           | P.O.: Majh   | ULIA SUGAR II  | NDUSTRIES PVT. LTI                                     | D.           |  |  |  |
| [b]                                  | Details of Sample                   |               |           | Borewell Water Sample  |  |  |              |  |  |  |
| [c]                                  | Sample Collected by                 |               |           | SHIVA TES  | ST HOUSE on  | 02.03.23   |              |  |  |  |
| [d]                                  | Sampling Location                   |               |           | The second live is a second live in the second live in the second live is a second live in the second live is a second live in the second live is a second live in the second live in the second live is a second live in the second live in the second live is a second live in the second live in the second live is a second live in the second li | and the second s | ear Guest House  |              |  |  |  |
| [e]                                  | Method of Sampling                  |               |           | IS 3025, A   | and interest to the last of th |  |              |  |  |  |
| [f]                                  | Sampling Environmental C            | ondition      |           | Temp. (°C)   |  | 26 Humidity  | (%) 6        |  |  |  |
| [g]                                  | No. & Type of Container             |               |           | Plastic Bot  | tle (02)   |  |              |  |  |  |
| [h]                                  | Sample Quantity                     |               |           | 2 Litres   |  |  |              |  |  |  |
| [i] Sample Code                      |                                     |               |           | BW-6868  |  |  |              |  |  |  |
| [j] Sample Condition on Receipt      |                                     |               |           | Fit for Anal   |  |  |              |  |  |  |
| [k]                                  | Items required to be tested         |               |           | As per Contract  |  |  |              |  |  |  |
| [1]                                  | Date of receiving the samp          |               |           | 03.03.23   |  |  |              |  |  |  |
| [m]                                  | Analysis Start Date / Analy         | sis Completic | n Date    | 03.03.23/  |  |  | 1            |  |  |  |
| S.N.                                 | Parameters                          | Unit          | Meth      | od of Test   | Acceptable<br>Limit  | Permissible Limit in the absence of alternative source | Results      |  |  |  |
| 1                                    | Colour                              | Hazen         | IS 30     | 25 (Part-4)  | 5  | 15   | <5.0         |  |  |  |
| 2                                    | Odour                               | -             | IS 30     | 25 (Part-5)  | Agreeable  | Agreeable  | Agreeable    |  |  |  |
| 3                                    | Taste                               |               | IS 302    | 25 (Part-7))   | Agreeable  | Agreeable  | Agreeable    |  |  |  |
| 4                                    | pH                                  |               | IS 302    | 25 (Part-11)   | 6.5 to 8.5   | No relaxation  | 7.37         |  |  |  |
| 5                                    | Turbidity                           | NTU           | IS 302    | 25 (Part-10)   | 1.0  | 5.0  | 0.8          |  |  |  |
| 6                                    | Total Dissolved Solids (TDS)        | mg/l.         | IS 302    | 25 (Part-16)   | 500.0  | 2000.0   | 295.0        |  |  |  |
| 7                                    | Total Hardness as CaCO <sub>3</sub> | mg/l.         | IS 302    | 25 (Part-21)   | 200.0  | 600.0  | 184.0        |  |  |  |
| 8                                    | Calcium as Ca                       | mg/l.         | IS 302    | 25 (Part-40)   | 75.0   | 200.0  | 48.9         |  |  |  |
| 9                                    | Magnesium as Mg                     | mg/l.         | IS 302    | 25 (Part-46)   | 30.0   | 100.0  | 15.1         |  |  |  |
| 10                                   | Iron as Fe                          | mg/l.         | IS 302    | 25 (Part-53)   | 1.0  | No relaxation  | 0.38         |  |  |  |
| 11.51                                |                                     |               | Variable. |  |  |  | 0.04         |  |  |  |

IS 3025 (Part-26)

IS 3025 (Part-23)

IS 3025 (Part-32)

IS 3025 (Part-24)

IS 3025 (Part-34)

APHA 4500 (F D)



**SHIBESHW** AR PRASAD

Residual Free Chlorine

Chloride as CI

Nitrate as NO<sub>3</sub>

Fluoride as F

Sulphate as SO<sub>4</sub>

Total Alkalinity as CaCO<sub>3</sub>

11

12

13

14

15

16

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

mg/l

mg/l

mg/l.

mg/l

mg/l.

mg/l

Verified by: Technical Manager Prasad

600.0

1000.0

400.0

No relaxation

1.5

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

< 0.01

232.0

18.0

23.5

2.20

0.32

Authorized Signatory Quality Manager

END OF TEST REPORT

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Mob.: +918676886249; +919431047908

sthpatnal@vahoo.co.in : info@shivatest.com

0.2

200.0

250.0

200.0

45.0

1.0

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



Page I of I





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## TEST REPORT

| Ref. I | No. STH/TR/22-23                            | /6868(MCB)     | Dt: 20.03.2023 | Your Work   | Order No. WP.       | 215/22 Dt:   | 08.08.2022  |  |  |
|--------|---|----------------|----------------|---|---------------------|--------------|-------------|--|--|
| [a] N  | ame and address o                           | f the Custome  | r              | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. L P.O.: Majhaulia W. Champaran – 845 454 |                     |              |             |  |  |
| [b] D  | etails of Sample                            |                |                | Borewell Water  | r Sample            |              |             |  |  |
| [c] S  | ample Collected by                          |                |                | SHIVA TEST  | HOUSE on 0          | 2.03.23      |             |  |  |
| [d] S  | ampling Location                            |                |                | Collected from  | Borewell Near Gu    | est House    |             |  |  |
| [e] N  | lethod of Sampling                          |                |                | IS 1622   |                     |              |             |  |  |
| [f] S  | ampling Environme                           | ntal Condition |                | Temp (°c)   | 26 H                | lumidity (%) | 62          |  |  |
| [g] N  | No. & Type of Conta                         | iner           |                | One Sterilized  | Glass Bottle        |              |             |  |  |
| [h] S  | ample Quantity                              |                |                | 250 ml  |                     |              |             |  |  |
| [i] S  | ample Code                                  |                |                | BW-6868   |                     |              |             |  |  |
| [j] S  | ample Condition on                          | Receipt        |                | Fit for analysis  | S                   |              |             |  |  |
| [k] It | ems required to be                          | tested         | 7              | As per contrac  | ct                  |              |             |  |  |
|        | Vhether any specific<br>uggested by the cus |                | st has been    | No  |                     |              |             |  |  |
| [m] D  | ate of receiving the                        | sample in Lat  | ooratory       | 03.03.23  |                     |              |             |  |  |
| [n] A  | nalysis Start Date /                        | Analysis Com   | pletion Date   | 03.03.23 / 04.  | 03.23               |              |             |  |  |
| S.N.   | Parameters                                  | Unit           | Method of Test | Limit as per  | IS 10500: 2012      | Res          | ults        |  |  |
| 1.     | Total Coliform                              | / 100 ml       | IS 1622:1981   | Shall not be det  | tectable in 100 ml. | Not Detect   | ed / 100 ml |  |  |



Authorized Signatory Section In-Charge (Microbiology)

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## TEST REPORT

|                   | OTHER 122 22/6860 Dt.   | 20.03.2023 You        | r Work Order No. WP/215/   | /22 Dt: 08.08.2022   |  |  |  |  |
|-------------------|---|-----------------------|--|----------------------|--|--|--|--|
|                   | No. STH/TR/22-23/6869 Dt:  Name and address of the Customer     |                       | Executive Director<br>M/s MAJHAULIA SUGAR<br>P.O.: Majhaulia<br>W.Champaran – 845 45 | INDUSTRIES PVT. LTD. |  |  |  |  |
| [b]               | Details of Sample   |                       | Untreated Effluent San   | npie                 |  |  |  |  |
| [c]               | Sample Collected by   |                       | SHIVA TEST HOUSE of  | TP                   |  |  |  |  |
| [d]               | Sampling Location   |                       | Collected from Inlet of E  | T .                  |  |  |  |  |
| [e]               | Method of Sampling  |                       | IS 3025, APHA  | 26 Humidity (%) 62   |  |  |  |  |
| [f]               | Sampling Environmental Condition                                |                       | Temp. (°C)   | 20 Hamary (74)       |  |  |  |  |
| [g]               | Details of Sample Container (No. &                              | Type of Container     | Plastic Bottle   |                      |  |  |  |  |
| [h]               | Sample Quantity   |                       | 2 Litres   |                      |  |  |  |  |
| [i]               | Sample Code   |                       | E-6869   |                      |  |  |  |  |
| [i]               | Sample Condition on Receipt                                     |                       | Fit for Analysis   |                      |  |  |  |  |
| [k]               | Users required to be tested                                     |                       | As per Contract  |                      |  |  |  |  |
| [1]               | Whether any specific Method of Tes                              | st has been suggested | No   | 37                   |  |  |  |  |
|                   | by the customer   |                       | 03.03.23   |                      |  |  |  |  |
| [m]               | Date of receiving the sample Analysis Start Date / Analysis Com | nletion Date          | 03.03.23 / 06.03.23  |                      |  |  |  |  |
| [n]<br><b>S</b> . | Parameters  | Unit                  | Method of Test   | Result               |  |  |  |  |
| N.                |   |                       | IS 3025 (Part-11)  | 7.89                 |  |  |  |  |
| 1                 | pH  | mg/l.                 | IS 3025(Part-17)   | 272.0                |  |  |  |  |
| 2                 | Suspended Solids  |                       | IS 3025 (Part-39)  | 3.9                  |  |  |  |  |
| 3                 | Oil & Grease  | mg/l.                 |  |                      |  |  |  |  |
| 4                 | B.O.D. (3 days at 27°C)   | mg/l.                 | IS 3025 (Part-44)  | 280.0                |  |  |  |  |
| 4                 |   | mg/l.                 | APHA 5220 B  | 864.0                |  |  |  |  |
| 5                 | C.O.D.  | 11.00 m               | POSTAL SALVES SALVES   | 1.1                  |  |  |  |  |
| 6                 | Dissolved Phosphate as P  | mg/l.                 | APHA (4500-P-D)  | 21.3                 |  |  |  |  |
| 7                 | Ammonical Nitrogen as N   | mg/l.                 | IS 3025 (Part-34)  | 150.000              |  |  |  |  |
| 8                 | Total Kjeldahl Nitrogen as N                                    | mg/l.                 | APHA (4500 N org)  | 38.6                 |  |  |  |  |



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

Verified by:

Shreyasee Prasad

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

Authorized Signatory Quality Manager

Technical Manager END OF TEST REPORT

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





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## TEST REPORT

| Ref. 1                  | No. STH/TR/22-23/6869(A)                       | Dt: 20.03.2023             | Your Work Order No. WI   | P/215/22 Dt: 08.08.           | 2022 |  |  |
|-------------------------|--|----------------------------|--|-------------------------------|------|--|--|
|                         | a] Name and address of the Cu                  | ustomer                    | Executive Director<br>M/s MAJHAULIA SUGA<br>P.O.: Majhaulia<br>W.Champaran – 845 | R INDUSTRIES PVT. LTD.<br>454 |      |  |  |
| [b]                     | Details of Sample                              |                            | Untreated Effluent Sa  |                               |      |  |  |
| [c] Sample Collected by |  |                            | SHIVA TEST HOUSE   |                               |      |  |  |
| [d] Sampling Location   |  |                            | Collected from Inlet of  | ETP                           |      |  |  |
| [e]                     | Method of Sampling                             |                            | IS 3025, APHA  |                               |      |  |  |
| [f]                     | Sampling Environmental Cond                    | ition                      | Temp. (°C)   | 26 Humidity (%)               | 62   |  |  |
| [g]                     | Details of Sample Container (N                 | lo. & Type of Container    | Plastic Bottle 2 Litres  |                               |      |  |  |
| [h]                     | Sample Quantity                                |                            |  |                               |      |  |  |
| [i]                     | Sample Code                                    |                            | E-6869   |                               |      |  |  |
| ÜÌ                      | Sample Condition on Receipt                    |                            | Fit for Analysis   |                               |      |  |  |
| [k]                     | Items required to be tested                    |                            | As per Contract  |                               |      |  |  |
| [1]                     | Whether any specific Method of by the customer | of Test has been suggested | No   |                               |      |  |  |
| [m]                     | Date of receiving the sample                   |                            | 03.03.23   |                               |      |  |  |
| [n]                     | Analysis Start Date / Analysis                 | Completion Date            | 03.03.23 / 06.03.23  |                               |      |  |  |
| S.<br>N.                | Parameters                                     | Unit                       | Method of Test   | Result                        |      |  |  |
| 1.                      | Total Dissolved Solids                         | mg/l.                      | IS 3025(Part-16  | 2232.0                        |      |  |  |



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

> Verified by: Technical Manager

Shreyasee Prasad

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

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## TEST REPORT

| Ref.            | No. STH/TR/22-23/6870 Dt:   | 20.03.2023           | Yo      | ur Work Order N  | o. WP/215/22                | Dt         | : 08.08.2022 |
|-----------------|---|----------------------|---------|--|-----------------------------|------------|--------------|
|                 | Name and address of the Customer  |                      |         | Executive Dir<br>M/s MAJHAUL<br>P.O.: Majhaul<br>W.Champara  | IA SUGAR INDU<br>ia         | STRIES PV  | T. LTD.      |
| [b]             | Details of Sample   |                      |         | Treated Effluer  |                             |            |              |
|                 | Sample Collected by   |                      |         | The state of the s | HOUSE on 02.0               | 3.23       |              |
| [d]             | Sampling Location   |                      |         | Collected from   |                             |            |              |
|                 | Method of Sampling  |                      |         | IS 3025, APH   |                             | (0/)       | - 00         |
| [f]             | Sampling Environmental Condition  |                      |         | Temp. (°C)   |                             | midity (%) | 62           |
|                 | Details of Sample Container (No. & T  | ype of Conta         | iner)   | Plastic Bottle   | (02)                        |            |              |
|                 | Sample Quantity   |                      |         | 2 Litres   |                             |            |              |
|                 | Sample Code   |                      |         | E-6870   |                             |            |              |
|                 | Sample Condition on Receipt   |                      |         | Fit for Analysis As per contract   |                             |            |              |
| [1]             | Items required to be tested Whether any specific Method of Test by the customer |                      | ggested | No<br>03.03.23   |                             |            |              |
| -               | Date of receiving the sample in Labo  | ratory<br>otion Doto |         | 03.03.23 / 06.   | 03.33                       |            |              |
| [n]<br>S.<br>N. | Analysis Start Date / Analysis Compl<br>Parameters                              | Unit                 | Metho   | od of Test   | Limit as per<br>Rules Scher |            | Resul        |
| 1               | рН  | and the contract of  | IS 30   | 25 (Part-11)   | 5.5 to 8                    | 3.5        | 7.51         |
| 2               | Suspended Solids  | mg/l.                | IS 30   | )25(Part-17)   | 100.0                       | )          | 34.0         |
| 3               | Oil & Grease  | mg/l.                | IS 30   | 25 (Part-39)   | 10.00                       | )          | 1.2          |
| 4               | B.O.D. (3 days at 27°C)   | mg/l.                | IS 30   | 25 (Part-44)   | 100.0                       | 0          | 22.0         |
| 5               | C.O.D.  | mg/l.                | AP      | HA 5220 B  | Not Spec                    | ified      | 96.0         |
| 6               | Dissolved Phosphate as P  | mg/l.                | APH.    | A (4500-P-D)   | Not Spec                    | ified      | 0.72         |
| 7               | Ammonical Nitrogen as N   | mg/l.                | IS 30   | 25 (Part-34)   | Not Spec                    | ified      | 10.1         |
|                 |   | mg/l.                |         |  | Not Spec                    | TATALON DV | 17.36        |



SHIBESHW Digitally signed by AR PRASAD Date: 2023.03.20 15:48:46 +05'30'

SHIBESHWAR PRASAD

Verified by: Technical Manager Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2023.03.20 17:22:23 +05'30'

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## TEST REPORT

|             |                                      | IESI K               |        |   | ************************************** | Dt . 00  | .08.2022 |  |
|-------------|--------------------------------------|----------------------|--------|---|--|----------|----------|--|
| Ref No. ST  | TH/TR/22-23/6870(A)                  | Dt: 20.03.2023       | You    | ır Work Order No  |  | Dt: 08   | .00.2022 |  |
|             | and address of the Custo             | mer                  |        | Executive Dire<br>M/s MAJHAULI<br>P.O.: Majhauli<br>W.Champaran | A SUGAR INDUSTRIE<br>ia                | S PVT. L | TD.      |  |
| In] Dotaile | of Sample                            |                      |        | Treated Effluen   | t sample                               |          |          |  |
|             | e Collected by                       |                      |        |   | HOUSE on 02.03.23                      |          |          |  |
| h 12        |                                      |                      |        | Collected from  | Outlet of ETP                          |          |          |  |
|             | ng Location                          |                      |        | IS 3025, APHA   | 4                                      |          |          |  |
|             | d of Sampling                        | tion                 |        | Temp. (°C)  | 26 Humidity                            | / (%)    | 62       |  |
| [t] Sampl   | ing Environmental Condi              | e P Type of Contain  | ner )  | Plastic Bottle (02)   |  |          |          |  |
|             | of Sample Container (N               | o. & Type of Contain | iici / | 2 Litres<br>E-6870  |  |          |          |  |
|             | e Quantity                           |                      |        |   |  |          |          |  |
| [w] Sampl   | e Code                               | -                    |        | Fit for Analysis  |  |          |          |  |
| [x] Sampl   | e Condition on Receipt               |                      |        | As per contrac  | nt .                                   |          |          |  |
| [v] Itams   | required to be tested                |                      | 1 1    | As per contrac  | 7.                                     |          |          |  |
| [z] Wheth   | er any specific Method o<br>customer | f Test has been sug  | gested | No  |  |          |          |  |
| by the      | of receiving the sample in           | Laboratory           |        | 03.03.23  |  |          |          |  |
| [aa] Date C | sis Start Date / Analysis (          | Completion Date      |        | 03.03.23 / 06.  | 03.23                                  |          |          |  |
| S. Par      | ameters                              | Unit                 | Meth   | od of Test  | Limit as per E (F<br>Rules Schedule    | VI       | Resul    |  |
| N. 1 Tot    | al Dissolved Solids                  | mg/l.                | IS 3   | 025(Part-16)  | 2100.00                                |          | 487.0    |  |



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Digitally signed by Shreyasee Prasad Date: 2023.03.20 17:22:52 +05'30'

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## TEST REPORT

| Ref. N                               | No. STH/TR/22-23/6871 Dt: 20.03.2023                                   | 1                              | Your Work Order !   | No. WP/2        | 15/22 D            | ot: 08.08.2022 |  |  |
|--------------------------------------|--|--------------------------------|---|-----------------|--------------------|----------------|--|--|
| [a] Name and address of the Customer |  | M/s MAJHAULI<br>P.O.: Majhauli | utive Director<br>MAJHAULIA SUGAR INDUSTRIES PVT. LTD.<br>Majhaulia<br>namparan – 845 454 |                 |                    |                |  |  |
| [b]                                  | b] Details of Sample   |                                |   | t sample        |                    |                |  |  |
| [c]                                  | Sample Collected by  |                                | SHIVA TEST H  | OUSE or         | n 02.03. <i>23</i> |                |  |  |
| [d]                                  | Sampling Location  |                                | From Aeration   | m Aeration Tank |                    |                |  |  |
| [e]                                  | Method of Sampling   |                                | IS 3025, APHA   |                 |                    |                |  |  |
| [f]                                  | Sampling Environmental Condition                                       |                                | Temp. (°C)  | 26              | Humidity (%)       | 62             |  |  |
| [g]                                  | No. & Type of Container  | Plastic Bottle                 |   |                 |                    |                |  |  |
| [h]                                  | Sample Quantity  |                                | 2 Litres  |                 |                    |                |  |  |
| [i]                                  | Sample Code  |                                | E-6871  |                 |                    |                |  |  |
| [j]                                  | Sample Condition on Receipt  |                                | Fit for Analysis  |                 |                    |                |  |  |
| [k]                                  | Items required to be tested  |                                | As per contract   |                 |                    |                |  |  |
| [1]                                  | Whether any specific Method of Test has<br>been suggested by the party |                                | No  |                 |                    |                |  |  |
| [m]                                  | Date of receiving the sample in Laboratory                             |                                | 03.03.23  |                 |                    |                |  |  |
| [n]                                  | Analysis Start Date / Analysis Completion I                            | Date                           | 03.03.23 / 06.0   | 3.23            |                    |                |  |  |
| SI.<br>No.                           | Parameters   | Unit                           | Method of Test R  |                 |                    |                |  |  |
| 1.                                   | Mixed Liquor Suspended Solids (MLSS)                                   | 27.023                         | 2490  |                 |                    |                |  |  |
| 2.                                   | Mixed Liquor Volatile Suspended Solids (MLVSS)                         | mg/l                           | IS 3025 (Part-24)   |                 |                    | 2230.0         |  |  |



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Shreyasee Prasad

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## TEST REPORT

| COL                              | No. STH/TR/22-23/6872 Dt: 20  | .03.2023          | Your Work Order No. W   | -//   | 08.08.2022                           |
|----------------------------------|---|-------------------|---|---|--------------------------------------|
|                                  | lame and address of the Customer  |                   | Executive Direct<br>M/s MÅJHAULIA S<br>P.O.: Majhaulia<br>W.Champaran –   | SUGAR INDUSTRIES PV   | T. LTD.                              |
| -1 F                             | Details of Sample   |                   | Lagoon Sample   |   |                                      |
| -                                | Sample Collected by   |                   |   | USE on 02.03.23   |                                      |
| d] S                             | Sampling Location   |                   | Collected from Po.  | nd Water  |                                      |
| e] N                             | Method of Sampling  |                   | IS 3025, APHA   | 26 Humidity (%)   | 62                                   |
| 1 (                              | Compling Environmental Condition  |                   | Temp. (°C)  |   | UZ                                   |
| g] [                             | Details of Sample Container (No. & Ty   | pe of Container   | ) Plastic Bottle (02  | )   |                                      |
| 1] 5                             | Sample Quantity   |                   | 2 Litres<br>E-6872  |   |                                      |
| 1 5                              | Sample Code   |                   | Fit for Analysis  |   |                                      |
| 1 :                              | Sample Condition on Receipt   |                   | As per contract   |   |                                      |
| 7 1                              | Land required to be tested  | 1                 |   |   |                                      |
| 1                                | Whether any specific Method of Test h   | ias been sugge    | No No   |   |                                      |
|                                  | by the customer   |                   | 03.03.23  |   |                                      |
| 1                                |   |                   |   |   |                                      |
| m]                               | Date of receiving the sample in Labora  | atory             | 03.03.23 / 06.03  | .23   |                                      |
| n]<br>S.                         | Date of receiving the sample in Labora<br>Analysis Start Date / Analysis Comple<br>Parameters | tion Date Unit    | 03.03.23 / 06.03<br>Method of Test  | Limit as per E (P) Rules Schedule VI                                      | Result                               |
| n]<br>S.<br>N.                   | Analysis Start Date / Analysis Comple Parameters  | tion Date         | 03.03.23 / 06.03<br>Method of Test  | Limit as per E (P)  | Result                               |
| n]<br>S.<br>N.                   | Analysis Start Date / Analysis Comple Parameters  pH  | Unit              | 03.03.23 / 06.03  | Limit as per E (P)<br>Rules Schedule VI                                   |                                      |
| n]<br>S.<br>N.<br>1              | Analysis Start Date / Analysis Comple Parameters  pH  Suspended Solids                        | Unit              | 03.03.23 / 06.03  Method of Test  IS 3025 (Part-11)  IS 3025(Part-17)   | Limit as per E (P)<br>Rules Schedule VI<br>5.5 to 8.5                     | 7.17                                 |
| [n]<br>S.<br>N.<br>1<br>2        | Analysis Start Date / Analysis Comple Parameters  pH Suspended Solids Oil & Grease            | Unit mg/l.        | 03.03.23 / 06.03  Method of Test  IS 3025 (Part-11)   | Limit as per E (P) Rules Schedule VI 5.5 to 8.5 100.0                     | 7.17<br>43.0                         |
| n]<br>S.<br>N.<br>1<br>2<br>3    | Parameters  pH  Suspended Solids  Oil & Grease  B.O.D.(3 days at 27°C)                        | Unit  mg/l. mg/l. | 03.03.23 / 06.03  Method of Test  IS 3025 (Part-11)  IS 3025 (Part-17)  IS 3025 (Part-39)                                       | Limit as per E (P) Rules Schedule VI 5.5 to 8.5 100.0 10.00               | 7.17<br>43.0<br>1.7<br>24.0          |
| n]<br>S. N. 11<br>22<br>33<br>44 | Parameters  pH  Suspended Solids  Oil & Grease  B.O.D.(3 days at 27°C)  C.O.D.                | mg/l. mg/l.       | 03.03.23 / 06.03  Method of Test  IS 3025 (Part-11)  IS 3025 (Part-17)  IS 3025 (Part-39)  IS 3025 (Part-44)                    | Limit as per E (P) Rules Schedule VI  5.5 to 8.5  100.0  10.00  100.00    | 7.17<br>43.0<br>1.7<br>24.0<br>116.0 |
| [n]<br>S.<br>N.<br>1             | Parameters  pH  Suspended Solids  Oil & Grease  B.O.D.(3 days at 27°C)                        | mg/l. mg/l. mg/l. | 03.03.23 / 06.03  Method of Test  IS 3025 (Part-11)  IS 3025 (Part-17)  IS 3025 (Part-39)  IS 3025 (Part-44)  APHA 5220 B  APHA | Limit as per E (P) Rules Schedule VI 5.5 to 8.5 100.0 10.00 Not Specified | 7.17<br>43.0<br>1.7<br>24.0<br>116.0 |



- END OF TEST REPORT

**SHIBESHW** 

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## TEST REPORT

|                                      |   | A LAND A ALA       |   |                              |                                       |                |  |
|--------------------------------------|---|--------------------|---|------------------------------|---------------------------------------|----------------|--|
| Ref.                                 | No. STH/TR/22-23/6872(A)                          | Dt: 20.03.2023     | Your  | Work Order No. W             | /P/215/22 I                           | Ot: 08.08.2022 |  |
| [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                |   |                    |   | Lagoon Sample                | 21105 02 02 22                        |                |  |
| [c]                                  | Sample Collected by                               |                    |   |                              | OUSE on 02.03.23                      |                |  |
|                                      | Sampling Location                                 |                    |   | Collected from Pa            | ond Water                             |                |  |
| A                                    | Method of Sampling                                |                    |   | IS 3025, APHA                |                                       | 4) 00          |  |
| [e]<br>[f]                           | Sampling Environmental Conditi                    | ion                |   | Temp. (°C)                   | 26 Humidity (                         | %) 62          |  |
| -                                    | Details of Sample Container (No                   | & Type of Containe | r)  | Plastic Bottle (02) 2 Litres |                                       |                |  |
|                                      | Sample Quantity                                   |                    |   |                              |                                       |                |  |
| _                                    | Sample Code                                       | *                  |   | E-6872                       |                                       |                |  |
|                                      | Sample Code Sample Condition on Receipt           |                    |   | Fit for Analysis             |                                       |                |  |
|                                      | Items required to be tested                       |                    |   | As per contract No           |                                       |                |  |
| [1]                                  | Whether any specific Method of<br>by the customer | Test has been sugg | ested   |                              |                                       |                |  |
| [m]                                  | Date of receiving the sample in                   | Laboratory         |   | 03.03.23                     |                                       |                |  |
| -                                    | Analysis Start Date / Analysis C                  | ompletion Date     |   | 03.03.23 / 06.03             |                                       |                |  |
| [n]<br>S.<br>N.                      | Parameters  | Unit               | Me  | ethod of Test                | Limit as per E (P<br>Rules Schedule \ | Kecilit        |  |
| 1                                    | Total Dissolved Solids                            | mg/l.              | IS  | 3025(Part-16)                | 2100.00                               | 451.0          |  |



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## TEST REPORT

| the state of the s |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Ref. No. STH/TR/22-23/6873-6876 Dt: 20.03.2023   | Your Work Order No. WP/215/22 Dt: 08.08.2022   |  |  |  |  |  |
| [a] Name and address of the Customer   | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454  |  |  |  |  |  |
| b] Details of Sample   | Monitoring of Ambient Air Quality SHIVA TEST HOUSE on 02.03.23   |  |  |  |  |  |
| c] Sample Collected by   | Premises of Sugar Mill   |  |  |  |  |  |
| [d] Sampling Location  | IS 5182 (Part - 14)  |  |  |  |  |  |
| [e] Method of Sampling   | Temp. (°C) 26 Humidity (%) 62  |  |  |  |  |  |
| [f] Sampling Environmental Condition  [g] Details of Sample Container (No. & Type of Container)  [h] Instrument ID   | Filter Paper; Glass Impinger  RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4  30 ml x 24 (for each NO <sub>2</sub> , SO <sub>2</sub> ) |  |  |  |  |  |
| [i] Sample Quantity  | Fit for Analysis   |  |  |  |  |  |
| Sample Condition on Receipt  [k] Items required to be tested   | As per contract  |  |  |  |  |  |
| [I] Whether any specific Method of Test has been suggested by the  | No No  |  |  |  |  |  |
| [m] Date of receiving the sample in Laboratory   | 03.03.23<br>03.03.23 / 04.03.23  |  |  |  |  |  |
| [n] Analysis Start Date / Analysis Completion Date   | Sampling Station / Result  |  |  |  |  |  |

| n] Analysis Start Date / A              | nalysis Col | Inpiction Date       | Limit on par                  |  | Sampling St                                  | ation / Result                               |                                      |
|---|-------------|----------------------|-------------------------------|--|--|--|--------------------------------------|
| Parameters                              | Unit        | Method of<br>Test    | Limit as per<br>NAAQS<br>2009 | Near Main<br>Gate<br>(SC A-6873)             | Near Guest<br>House<br>(SC A-6874)           | Near Cooling<br>Tower<br>(SC_A-6875)         | Near Store<br>(SC_A-6876)            |
| Particulate Matter (PM <sub>10</sub> )  | μg / m³     | IS 5182<br>(Part-23) | 100                           | 80.4<br>73.5<br>81.0                         | 74.3<br>72.6<br>78.2                         | 77.7<br>75.5<br>76.6<br>40.6                 | 74.5<br>71.5<br>76.6<br>42.0         |
| Particulate Matter (PM <sub>2.5</sub> ) | µg / m³     | CPCB GMAAP           | 60                            | 43.2<br>38.3<br>40.1                         | 43.2<br>34.6<br>38.3                         | 33.2<br>38.1<br>19.1                         | 33.3<br>38.3<br>17.9                 |
| Sulphur Dioxide as SO <sub>2</sub>      | μg / m³     | IS 5182<br>(Part-2)  | 80                            | 16.2<br>14.5<br>11.2<br>12.2<br>14.2<br>18.3 | 22.8<br>11.6<br>11.4<br>9.3<br>14.5<br>21.7  | 13.8<br>11.5<br>13.5<br>12.5<br>14.6         | 16.3<br>13.0<br>11.0<br>13.0<br>15.9 |
| Nitrogen Dioxide as NO <sub>2</sub>     | μg / m³     | IS 5182<br>(Part-6)  | 80                            | 44.1<br>40.1<br>32.4<br>29.6<br>31.7<br>40.0 | 44.3<br>39.5<br>32.4<br>31.7<br>36.6<br>38.7 | 41.1<br>35.4<br>31.9<br>30.5<br>34.7<br>38.3 | 38.7<br>31.8<br>29.8<br>36.6<br>37.9 |
| Average Value                           |             |                      |                               | 70.2   | 75.1   | 76.6   | 74.2                                 |
| PM <sub>10</sub>                        | µg / m      | 3                    |                               | 78.3   | 38.7   | 37.3   | 37.8                                 |
| PM <sub>2.5</sub>                       | μg / m      |                      |                               | 14.4   | 15.2   | 14.3   | 14.5                                 |
| SO <sub>2</sub>                         | μg / m      |                      |                               | 36.3   | 38.7   | 35.3   | 36.1                                 |
| NO <sub>2</sub>                         | μg/m        | 13                   |                               | 50.0   | 1  |  |                                      |

**SHIBESHW** AR PRASAD Date: 2023.03.20

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- END OF TEST REPORT

Shreyasee Prasad

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## TEST REPORT

| Re  | f. No. STH/TR/22-23/6877 Dt: 3                                     | 20.03.2023  | Your Work Order N   | o. WP/215/22  | Dt: 08.08.2022   |  |  |  |
|-----|--|-------------|---|---|--|--|--|--|
| [a] | Name and address of the Customer                                   |             | Executive Dir<br>M/s MAJPAUL<br>P.O.: Majhaul<br>W.Champara | IA SUGAR INDUSTRIE<br>ia                              | S PVT. LTD.  |  |  |  |
| [b] | Details of Sample  |             | Monitoring of   | f Stack Emission                                      |  |  |  |  |
| [c] | Sample Collected by  |             |   | OUSE on 02.03.23                                      |  |  |  |  |
| [d] | Sampling Location  |             | Premises of   | Sugar Mill  |  |  |  |  |
| [e] | Method of Sampling   |             | IS 5182 (Part   |   |  |  |  |  |
| [f] | Sampling Environmental Condition                                   |             | Temp. (°C)  | 26 Humidity   | (%) 62   |  |  |  |
| [g] | No. & Type of Container  |             | Thimble & Gla   |   |  |  |  |  |
| [h] | Instrument ID  | 5           | VSS 1PLS  | 1 0   |  |  |  |  |
| [i] | Sample Quantity  |             | 60 ml   |   |  |  |  |  |
| [j] | Sample Code  |             | ST-6877   |   |  |  |  |  |
| [k] | Sample Condition on Receipt  |             | Fit for Analysis  |   |  |  |  |  |
| [1] | Items required to be tested  |             | As per contrac  |   |  |  |  |  |
| [m] | Whether any specific Method of Test<br>been suggested by the party | No          |   |   |  |  |  |  |
| [n] | Date of receiving the sample                                       |             | 03.03.23  | 03.03.23  |  |  |  |  |
| [0] | Analysis Start Date / Analysis Comp                                | letion Date | 03.03.23 / 04.  | 03.03.23 / 04.03.23                                   |  |  |  |  |
| [o] | Parameters   | Unit        | Method of Test  | Resi  | ults   |  |  |  |
| 1.  | Type of Fuel   |             |   | Baga  |  |  |  |  |
| 2.  | Stack Connected to   |             |   | Dumping Grate Boiler generation capa                  | No. 9 having Stear<br>city 32.0 T / hr.  |  |  |  |
| 3.  | Stack No.  |             |   | I   | 57   |  |  |  |
| 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 F  | an   |  |  |  |
| 7.  | Material of Construction   |             |   | M.S   | S.   |  |  |  |
| 8.  | Ambient Temperature  | °C          | 9   | 26.   |  |  |  |  |
| 9.  | Flue Gas Temperature   | °C          |   | 109   |  |  |  |  |
| 10. | Velocity   | m/sec.      | IS 11255 (Part-3)   | 7.  |  |  |  |  |
| 11. | Volumetric Flow Rate   | NM³/hr.     |   | 3727  | The state of the s |  |  |  |
| 12. | Sampling Point   | Meter       |   | 11.00   | CONTRACTOR OF THE PARTY OF THE  |  |  |  |
|     |  |             |   | Limit as per E (P)<br>Rules Schedule I                | Concentration<br>( mg / NM³ )  |  |  |  |
| 13. | Particulate Matter (P.M.)  | mg / NM³    | IS 11255 (Part-1)   | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 34.76  |  |  |  |
| 14. | Sulphur Dioxide (SO <sub>2</sub> )                                 | mg / NM³    | IS 11255 (Part-2)   | Not Specified   | 15.82  |  |  |  |
|     | Oxides of Nitrogen (NO <sub>2</sub> )                              | mg / NM³    | IS 11255 (Part-7)   | Not Specified   | 14.36  |  |  |  |

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## TEST REPORT

| Ref. | No. STH/TR/22-23/6878 Dt: 20.0.                                    | 3.2023  | Your Work Order No                       | . WP/215/22   | Dt: 08.08.2022                            |  |  |  |
|------|--|---|--|---|---|--|--|--|
|      | 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  |   |  | Stack Emission  |   |  |  |  |
| [c]  | Sample Collected by  | SHIVA TEST HO   | SHIVA TEST HOUSE on 02.03.23             |   |   |  |  |  |
| [d]  | Sampling Location  |   | Premises of S                            | ugar Mill   |   |  |  |  |
| [e]  | Method of Sampling   | IS 5182 (Part -   |  |   |   |  |  |  |
| f    | Sampling Environmental Condition                                   |   | Temp. (°C)                               | 26 Humidity   | (%) 62                                    |  |  |  |
| [g]  | No. & Type of Container  |   | Thimble & Glas                           | ss Impinger   |   |  |  |  |
| h]   | Instrument ID  | 8   | VSS IPLS                                 |   |   |  |  |  |
| [i]  | Sample Quantity  |   | 60 ml                                    |   |   |  |  |  |
| [i]  | Sample Code  |   | ST-6878                                  |   |   |  |  |  |
| [k]  | Sample Condition on Receipt  |   | Fit for Analysis                         |   |   |  |  |  |
| [1]  | Items required to be tested  |   | As per contrac                           | t   |   |  |  |  |
| [m]  | Whether any specific Method of Test<br>been suggested by the party | has   | No                                       |   |   |  |  |  |
| [n]  | Date of receiving the sample                                       |   | 03.03.23                                 |   |   |  |  |  |
| [0]  | Analysis Start Date / Analysis Comple                              | etion Date  | 03.03.23 / 04.0                          | 03.03.23 / 04.03.23                                   |   |  |  |  |
| [U]  | Parameters   | Unit  | Method of Test                           | Resu  | lts                                       |  |  |  |
| 1.   | Type of Fuel   |   |  | Bagas   | sse                                       |  |  |  |
| 2.   | Stack Connected to   |   |  | Horse Shoe Type Bo<br>Steam generation cap            | iler No. 10 having<br>pacity 40.0 T / hr. |  |  |  |
| 3.   | Stack No.  |   |  | II  |   |  |  |  |
| 4.   | Height of Stack above ground level (as reported)                   | Meter   |  | 40.00   |   |  |  |  |
| 5.   | Dia of Stack at Top (as reported)                                  | Meter   |  | 2,55  |   |  |  |  |
| 6.   | Material of Constriction   |   |  | ID Fa   | (0)                                       |  |  |  |
| 7.   | Material of Construction   |   |  | M.S   |   |  |  |  |
| 8.   | Ambient Temperature  | °C  |  | 26.   |   |  |  |  |
| 9.   | Flue Gas Temperature   | °C  |  | 118   |   |  |  |  |
| 10.  | Velocity   | m/sec.  | IS 11255 (Part-3)                        | 7.0   |   |  |  |  |
| 11.  |  | NM³/hr.   |  | 9784  |   |  |  |  |
| 12.  | Sampling Point   | Meter   |  | 19.00   |   |  |  |  |
| 16.  | Sanifaria . Sani   |   |  | Limit as per E (P)<br>Rules Schedule I                | Concentration<br>( mg / NM <sup>3</sup> ) |  |  |  |
|      |  |   | IS 11255 (Part-1)                        | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 45.56                                     |  |  |  |
| 13.  | Particulate Matter (P.M.)  | mg / NM³  | 100-200-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0- |   | 10.11                                     |  |  |  |
| 13.  | Particulate Matter (P.M.) Sulphur Dioxide (SO <sub>2</sub> )       | $mg / NM^3$<br>$mg / NM^3$<br>$mg / NM^3$   | IS 11255 (Part-2)                        | Not Specified  Not Specified                          | 13.41<br>23.43                            |  |  |  |

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- END OF TEST REPORT -

Shreyasee Prasad

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## TEST REPORT

| Ref.       | No. STH/TR/22-23/6879 Dt: 20.03                                       | 3.2023          | Your Work Order No  Executive Dire                    | ector   | Dt: 08.08.20         | 44   |  |  |
|------------|---|-----------------|---|---|----------------------|------|--|--|
| [a] N      | Name and address of the Customer                                      |                 | M/s MAJHAULI<br>P.O.: Majhauli<br>W.Champaran         | A SUGAR INDUSTRIES<br>a                               | PVT. LTD.            |      |  |  |
| [b]        | Details of Sample   |                 | Monitoring o  | f Stack Emission                                      |                      |      |  |  |
| [c]        | Sample Collected by   |                 | SHIVA TEST HOUSE on 02.03.23                          |   |                      |      |  |  |
| [d]        | Sampling Location   | Premises of S   | Premises of Sugar Mill                                |   |                      |      |  |  |
| _          | Method of Sampling  | IS 5182 (Part - |   |   |                      |      |  |  |
| [e]<br>[f] | Sampling Environmental Condition                                      |                 | Temp. (°C)  | 26 Humidity   | (%) 6                | 2    |  |  |
| _          | No. & Type of Container   |                 | Thimble & Gla   | ss Impinger   |                      |      |  |  |
| [g]<br>[h] | Instrument ID   |                 | VSS 1PLS  |   |                      |      |  |  |
| _          | Sample Quantity   |                 | 60 ml   |   |                      |      |  |  |
| [i]<br>[:] | Sample Code   |                 | ST-6879   |   |                      |      |  |  |
| [j]        | Sample Code Sample Condition on Receipt                               |                 | Fit for Analysis                                      |   |                      |      |  |  |
| [k]        | Items required to be tested   |                 | As per contrac  | t   |                      |      |  |  |
| [l]<br>[m] | Whether any specific Method of Test ha<br>been suggested by the party | ıs              | No  |   |                      |      |  |  |
| r1         | Date of receiving the sample  |                 | 03.03.23  |   |                      |      |  |  |
| [n]        | Analysis Start Date / Analysis Completi                               | on Date         | 03.03.23 / 04.03.23                                   |   |                      |      |  |  |
| [0]        | Parameters  | Unit            | Method of<br>Test                                     | Results   |                      |      |  |  |
| 4          | Type of Fuel  |                 | ,   | Baga  | sse                  |      |  |  |
| 1.         | 71  | TWENTET!        |   | Dumping Grate Type                                    | Boiler No. 11 ha     | avir |  |  |
| 2.         | Stack Connected to  |                 |   | Steam generation ca                                   |                      | nr.  |  |  |
| 3.         | Stack No.   |                 |   | 111   |                      | _    |  |  |
| 4.         | Height of Stack above ground level (as reported)                      | Meter           |   | 40.00   |                      |      |  |  |
| 5.         | Dia of Stack at Top (as reported)                                     | Meter           |   | 2.50  |                      |      |  |  |
| 6.         | Material of Constriction  |                 |   | ID F  | 195000               |      |  |  |
| 7.         | Material of Construction  |                 |   | RC  | Train and the second | _    |  |  |
| 8.         | Ambient Temperature   | °C              |   | 26.   |                      | _    |  |  |
| 9.         | Flue Gas Temperature  | DC DC           |   | 124   |                      |      |  |  |
| 10.        | Velocity  | m/sec.          | IS 11255 (Part-3)                                     | 7.0   |                      | _    |  |  |
| 11.        | Volumetric Flow Rate  | NM³/hr.         |   | 9333  |                      |      |  |  |
| 12.        | Sampling Point  | Meter           |   | 21.00   | ) M.                 |      |  |  |
|            | . 0   |                 |   | Limit as per E (P)<br>Rules Schedule I                | Concentrati          | on   |  |  |
| 13.        | Particulate Matter (P.M.)   | mg / NM³        | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 40.34                |      |  |  |
| 14.        | Sulphur Dioxide (SO <sub>2</sub> )                                    | mg / NM³        | Not Specified   | Not Specified   | 11.31                |      |  |  |
| 1.4        | Oxides of Nitrogen (NO <sub>2</sub> )                                 | mg / NM³        | Not Specified   | Not Specified   | 24.19                |      |  |  |

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## TEST REPORT

| Ref. N                               | No. STH/TR/22-23/6880 Dt  | : 20.03.2023  | Your Work Order No. WP/2  | 215/22 Dt: 08.08.2022            |  |  |  |  |
|--------------------------------------|---|---------------|---|----------------------------------|--|--|--|--|
| [a] Name and address of the Customer |   |               | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                                  |  |  |  |  |
| [b]                                  | Sampling Environmental Cond                                     | ition         | Temp. (°C)  | 26 Humidity (%) 62               |  |  |  |  |
| [c]                                  | Details of Sample   |               | Monitoring of Ambient Noise Level within factory periphery  |                                  |  |  |  |  |
| [d]                                  | Monitored by  |               | SHIVA TEST HOUSE on   | 02.03.23                         |  |  |  |  |
| [e]                                  | Items required to be tested                                     |               | As per request  |                                  |  |  |  |  |
| [f]                                  | Whether any specific Method of T<br>been suggested by the party | Test has      | No  |                                  |  |  |  |  |
|                                      |   |               | Time Weighted Ave   | rage (TWA) of Noise Level        |  |  |  |  |
| S. N                                 | Monitoring Location Unit  |               | (   |                                  |  |  |  |  |
| S. N                                 | Monitoring Location   | Unit          | Day time (6:00 am to<br>10:00 pm)   | Night time (10:00 pm to 6:00 am) |  |  |  |  |
|                                      | Monitoring Location  Near Main Gate                             | Unit<br>dB(A) |   |                                  |  |  |  |  |
| 1.                                   |   |               | 10:00 pm)   | 6:00 am)                         |  |  |  |  |
| 1.                                   | Near Main Gate  | dB(A)         | 10:00 pm)<br>64.2   | <b>6:00 am)</b><br>55.2          |  |  |  |  |
|                                      | Near Main Gate  Near Guest house                                | dB(A)         | 10:00 pm)<br>64.2<br>61.3   | 6:00 am)<br>55.2<br>49.3         |  |  |  |  |



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

R PRASAD

SHIBESHWA Digitally signed by SHIBESHWAR PRASAD Date: 2023.03.20 15:56:04 +05'30'

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noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.

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## TEST REPORT

| Ref.     | No. STH/TR/22-23/6143 Dt:                            | 16.02.2023 You    | ir Work Order No. WP/27   | 5/22  | Dt: 08.08    | 3.2022 |  |  |
|----------|--|-------------------|---|-------|--------------|--------|--|--|
|          |  |                   | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhaulia W.Champaran – 845 454 |       |              |        |  |  |
| [b]      | Details of Sample                                    |                   | Untreated Effluent Sa   |       |              |        |  |  |
| [c]      | Sample Collected by                                  |                   | SHIVA TEST HOUSE  | on 08 | .02.23       |        |  |  |
| [d]      | Sampling Location                                    |                   | Collected from Inlet of .   | ETP   |              |        |  |  |
| [e]      | Method of Sampling                                   |                   | IS 3025, APHA   |       |              | 1      |  |  |
| [f]      | Sampling Environmental Condition                     |                   | Temp. (°C)  | 24    | Humidity (%) | 6      |  |  |
| [g]      | Details of Sample Container (No. 8                   | Type of Container | Plastic Bottle  |       |              |        |  |  |
| [h]      | Sample Quantity                                      |                   | 2 Litres  |       |              |        |  |  |
| [i]      | Sample Code  | *                 | E-6143  |       |              |        |  |  |
| [i]      | Sample Condition on Receipt                          |                   | Fit for Analysis  |       |              |        |  |  |
| [k]      | Items required to be tested                          |                   | As per Contract   |       |              |        |  |  |
| [1]      | Whether any specific Method of Te<br>by the customer | No                |   |       |              |        |  |  |
| [m]      | Date of receiving the sample                         |                   | 09.02.23  |       |              |        |  |  |
| [n]      | Analysis Start Date / Analysis Com                   | pletion Date      | 09.02.23 / 12.02.23   |       |              |        |  |  |
| S.<br>N. | Parameters   | Unit              | Method of Test  |       | Result       |        |  |  |
| 1        | pH   |                   | IS 3025 (Part-11)   |       | 8.41         |        |  |  |
| 2        | Suspended Solids                                     | mg/l.             | IS 3025(Part-17)  |       | 296.0        |        |  |  |
| 3        | Oil & Grease   | mg/l.             | IS 3025 (Part-39)   |       | 4.8          |        |  |  |
| 4        | B.O.D. (3 days at 27°C)                              | mg/l.             | IS 3025 (Part-44)   |       | 300.0        |        |  |  |
| 5        | C.O.D.   | mg/l.             | APHA 5220 B   |       | 944.0        |        |  |  |
| 6        | Dissolved Phosphate as P                             | mg/l.             | APHA (4500-P-D)   |       | 4.4          |        |  |  |
| 7        | Ammonical Nitrogen as N                              | mg/l.             | IS 3025 (Part-34)   |       | 22.4         |        |  |  |
| 8        | Total Kjeldahl Nitrogen as N                         | mg/l.             | APHA (4500 N org)   |       | 38.6         |        |  |  |
| 9        | Total Dissolved Solids                               | mg/l.             | IS 3025(Part-16   |       | 2232.0       |        |  |  |



SHIBESHW AR PRASAD Date: 2023.02.21

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager Prasad

Shreyasee Digitally signed by Shreyasee Prasad Date: 2023.02.21 13:31:26 +05'30'

Authorized Signatory Quality Manager

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## TEST REPORT

| ROT.                  | No. STH/TR/22-23/6144 Dt:  | 16.02.2023                    | You  | ır Work Order No  | . WP/215/                      | 22 1                               | Dt: | 08.08.2022                                   |
|-----------------------|--|-------------------------------|--|---|--------------------------------|------------------------------------|-----|--|
|                       | Name and address of the Customer   |                               |  | Executive Dire<br>M/s MAJHAULI<br>P.O.: Majhauli<br>W.Champaran | A SUGAR I<br>a<br>- 845 454    |                                    |     |  |
| [b] [                 | Details of Sample  |                               |  | Treated Effluen   | t sample                       |                                    |     |  |
| [c] S                 | Sample Collected by  |                               |  | SHIVA TEST H  |                                |                                    |     |  |
|                       | Sampling Location  |                               |  | Collected from  |                                | I P                                |     |  |
| [e] I                 | Method of Sampling   |                               |  | IS 3025, APHA<br>Temp. (°C)                                     | 24                             | Humidity (%                        | (6) | 67   |
|                       | Sampling Environmental Condition   | Cto                           | inor \   | Plastic Bottle (  |                                | Figurialty (7                      | /0/ | 01   |
|                       | Details of Sample Container (No. & T   | ype of Contai                 | ner)   | 2 Litres  | 02)                            |                                    |     |  |
| -                     | Sample Quantity Sample Code  |                               |  | E-6144  |                                |                                    |     |  |
|                       | Sample Code Sample Condition on Receipt  | -                             |  | Fit for Analysis  |                                |                                    |     |  |
|                       | Items required to be tested  |                               |  | As per contrac  | t                              |                                    |     |  |
| [1]                   | Whether any specific Method of Test by the customer                                  |                               | ggested  | No  |                                |                                    |     |  |
| [m]                   | Date of receiving the sample in Labo   | ratory                        |  | 09.02.23  | 20.00                          |                                    |     |  |
|                       | Analysis Start Date / Analysis Compl   | etion Date                    | B.R 41-  | 09.02.23 / 12.0   |                                | s per E (P)                        | T   | Resul  |
| S.<br>N.              | Parameters   | Unit                          | Metho  | od of Test  |                                | chedule VI                         |     | I\C3ui                                       |
|                       |  |                               |  |   |                                |                                    | +   |  |
| 1                     | рН   |                               | IS 30  | )25 (Part-11)   | 5.5                            | to 8.5                             |     | 7.37   |
| 2000                  | pH<br>Suspended Solids   | mg/l.                         | 100000000000000000000000000000000000000        | 025 (Part-11)<br>025(Part-17)                                   |                                | to 8.5<br>00.0                     |     | 41.0   |
| 1                     | •  |                               | IS 30  |   | 1                              | 0.00                               |     | 41.0   |
| 1 2                   | Suspended Solids   | mg/l.                         | IS 30  | 025(Part-17)  | 1                              | 0.00                               |     | 41.0<br>1.1<br>18.0                          |
| 1 2 3                 | Suspended Solids Oil & Grease  | mg/l.                         | IS 30  | 025(Part-17)<br>025 (Part-39)                                   | 1<br>1                         | 0.00                               |     | 41.0<br>1.1<br>18.0<br>112.0                 |
| 1 2 3 4               | Suspended Solids Oil & Grease B.O.D.(3 days at 27°C)                                 | mg/l.<br>mg/l.<br>mg/l.       | IS 30<br>IS 30<br>AP                           | 025(Part-17)<br>025 (Part-39)<br>025 (Part-44)                  | 1<br>1<br>10<br>Not 5          | 0.00                               |     | 41.0<br>1.1<br>18.0<br>112.0<br>0.85         |
| 1<br>2<br>3<br>4<br>5 | Suspended Solids Oil & Grease B.O.D.(3 days at 27°C) C.O.D.                          | mg/l. mg/l. mg/l. mg/l.       | IS 30<br>IS 30<br>IS 30<br>AP                  | 025(Part-17)<br>025 (Part-39)<br>025 (Part-44)<br>HA 5220 B     | 1<br>1<br>10<br>Not 5<br>Not 5 | 00.0<br>0.00<br>00.00<br>Specified |     | 41.0<br>1.1<br>18.0<br>112.0<br>0.85<br>11.8 |
| 1<br>2<br>3<br>4<br>5 | Suspended Solids Oil & Grease B.O.D.(3 days at 27°C) C.O.D. Dissolved Phosphate as P | mg/l. mg/l. mg/l. mg/l. mg/l. | IS 30<br>IS 30<br>IS 30<br>AP<br>APH/<br>IS 30 | 025(Part-17)<br>025 (Part-39)<br>025 (Part-44)<br>HA 5220 B     | 1<br>1<br>10<br>Not 5<br>Not 5 | 00.0<br>0.00<br>00.00<br>Specified |     | 41.0<br>1.1<br>18.0<br>112.0<br>0.85         |



- END OF TEST REPORT

AR PRASAD Date: 2023.02.21

SHIBESHW Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2023.02.21 13:31:43 +05'30'

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### TEST REPORT

| Ref. N     | No. STH/TR/22-23/6145 Dt: 16.02.2023                                   | ,   | Your Work Order 1     | No. WP/2  | 15/22        | Dt: | 08.08.2022 |  |  |  |
|------------|--|---|-----------------------|-----------|--------------|-----|------------|--|--|--|
| [a]        | Name and address of the Customer                                       | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhaulia W.Champaran – 845 454 |                       |           |              |     |            |  |  |  |
| [b]        | Details of Sample  |   | Treated Effluen       | t sample  |              |     |            |  |  |  |
| [c]        | Sample Collected by  |   | SHIVA TEST H          | HOUSE or  | 08.02.23     |     |            |  |  |  |
| [d]        | Sampling Location  |   | From Aeration         | Tank      |              |     |            |  |  |  |
| [e]        | Method of Sampling   |   | IS 3025, APHA         | 1         |              |     |            |  |  |  |
| [f]        | Sampling Environmental Condition                                       |   | Temp. (°C)            | 24        | Humidity (%) | )   | 67         |  |  |  |
| [g]        | No. & Type of Container  | 2   | Plastic Bottle        |           |              |     |            |  |  |  |
| [h]        | Sample Quantity  |   | 2 Litres              |           |              |     |            |  |  |  |
| [i]        | Sample Code  |   | E-6145                |           |              |     |            |  |  |  |
| [j]        | Sample Condition on Receipt  |   | Fit for Analysis      |           |              |     |            |  |  |  |
| [k]        | Items required to be tested  |   | As per contract       |           |              |     |            |  |  |  |
| [1]        | Whether any specific Method of Test has<br>been suggested by the party |   | No                    |           |              |     |            |  |  |  |
| [m]        | Date of receiving the sample in Laboratory                             |   | 09.02.23              |           |              |     |            |  |  |  |
| [n]        | Analysis Start Date / Analysis Completion I                            | Date  | 09.02.23 / 12.02.23   |           |              |     |            |  |  |  |
| SI.<br>No. | Parameters   | Unit  | Meti                  | hod of Te | est          | F   | Result     |  |  |  |
| 1.         | Mixed Liquor Suspended Solids (MLSS)                                   |   | Planter in recited in |           | 2000         | 2   | 2540.0     |  |  |  |
| 2.         | Mixed Liquor Volatile Suspended Solids (MLVSS)                         | mg/l  | IS 30                 | 25 (Part- | 24)          |     |            |  |  |  |



SHIBESHW Digitally signed by SHIBESHWAR PRASAD AR PRASAD Date: 2023.02.21

Verified by: Technical Manager Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2023.02.21 13:31:56 +05'30' Authorized Signatory

Quality Manager

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Page I of I



# **SHIVA TEST HOUSE**



(Serving since 1988)

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## TEST REPORT

| Details of Sample Container (No. & Type of Container )   Plastic Bottle (02)   | Re       | f. No. STH/TR/22-23/6146 Dt: 1         | 6.02.2023                                     | You   | ır Work Order No.                |      | )/22 Dt      | : 08.08.20 |  |
|--|----------|--|---|-------|----------------------------------|------|--------------|------------|--|
| Collected by   SHIVA TEST HOUSE on 08.02.23  |          |  |   |       | M/s MAJHAULIA<br>P.O.: Majhaulia | SUGA |              |            |  |
| Method of Sampling Location   Sampling   Sanpling   Sanpling Environmental Condition   Temp. (°C)   24   Humidity (%)   67   |          |  |   |       | Lagoon Sample                    |      |              |            |  |
| Method of Sampling   IS 3025, APHA   Temp. (°C)   24   Humidity (%)   67   |          |  |   |       |                                  |      |              |            |  |
| [f] Sampling Environmental Condition   Temp. (°C)   24   Humidity (%)   67   [g] Details of Sample Container (No. & Type of Container )   Plastic Bottle (02)   [h] Sample Quantity   2 Litres   [i] Sample Code   E-6146   [j] Sample Condition on Receipt   Fit for Analysis   [k] Items required to be tested   As per contract   [w] Whether any specific Method of Test has been suggested by the customer   No   [m] Date of receiving the sample in Laboratory   09.02.23   [n] Analysis Start Date / Analysis Completion Date   09.02.23 / 12.02.23   [n] Analysis Start Date / Analysis Completion Date   09.02.23 / 12.02.23   [n] Analysis Start Date / Schedule VI   Result   [n] PH     IS 3025 (Part-11)   5.5 to 8.5   7.25   [n] Suspended Solids   mg/l.   IS 3025 (Part-17)   100.0   62.0   [n] Oil & Grease   mg/l.   IS 3025 (Part-39)   10.00   1.4   [n] B.O.D.(3 days at 27°C)   mg/l.   IS 3025 (Part-44)   100.00   26.0   [n] C.O.D.   mg/l.   APHA 5220 B   Not Specified   112.0   [n] Ammonical Nitrogen as N   mg/l.   IS 3025 (Part-34)   Not Specified   9.0   [n] Ammonical Nitrogen as N   mg/l.   IS 3025 (Part-34)   Not Specified   9.0   [n] APHA (4500 P-D)   Not Specified   9.0   [n] APHA (4500 N org)   Not Specified   12.9   [n] APHA (4500 N     |          |  |   |       |                                  |      |              |            |  |
| Details of Sample Container (No. & Type of Container )   Plastic Bottle (02)   | _        |  |   |       | IS 3025, APHA                    |      |              |            |  |
| Sample Quantity   2 Litres     Sample Code   E-6146     Sample Condition on Receipt   Fit for Analysis     Items required to be tested   As per contract     Whether any specific Method of Test has been suggested by the customer   No     Date of receiving the sample in Laboratory   09.02.23 / 12.02.23     Analysis Start Date / Analysis Completion Date   09.02.23 / 12.02.23     Parameters   Unit   Method of Test   Limit as per E (P)     Rules Schedule VI     PH     IS 3025 (Part-11)   5.5 to 8.5   7.25     Suspended Solids   mg/l.   IS 3025 (Part-39)   10.00   62.0     Gold & Grease   mg/l.   IS 3025 (Part-39)   10.00   1.4     B.O.D.(3 days at 27°C)   mg/l.   IS 3025 (Part-44)   100.00   26.0     G.O.D.   mg/l.   APHA 5220 B   Not Specified   112.0     Dissolved Phosphate as P   mg/l.   APHA (4500 P-D)   Not Specified   9.0     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen as N   mg/l.   APHA (4500 N org)   Not Specified   12.9     Total Kjeldahl Nitrogen a       |          |  |   |       |                                  | 24   | Humidity (%) | 67         |  |
| Sample Code  | g]       | Details of Sample Container (No. & Ty  | of Sample Container (No. & Type of Container) |       |                                  | 2)   |              |            |  |
|  |          |  |   |       |                                  |      |              |            |  |
| Items required to be tested   As per contract  |          |  |   |       |                                  |      |              |            |  |
| Whether any specific Method of Test has been suggested by the customer   No   No   |          |  |   |       |                                  |      |              |            |  |
| by the customer  m] Date of receiving the sample in Laboratory n] Analysis Start Date / Analysis Completion Date  6. Parameters  Unit  Method of Test  Limit as per E (P) Rules Schedule VI  Result  PH  IS 3025 (Part-11)  Suspended Solids  Mg/l. IS 3025 (Part-17)  B.O.D.(3 days at 27°C)  Mg/l. IS 3025 (Part-39)  B.O.D.(3 days at 27°C)  Mg/l. IS 3025 (Part-44)  Mot Specified  12.0  APHA  (4500-P-D)  Ammonical Nitrogen as N  Mg/l. IS 3025 (Part-34)  Not Specified  1.3  Total Kjeldahl Nitrogen as N  Mg/l. APHA (4500 N org)  Mot Specified  12.9   |          |  |   |       | As per contract                  |      |              |            |  |
| Analysis Start Date / Analysis Completion Date   |          | by the customer                        |   | ested | No                               |      |              |            |  |
| No.   Parameters   Unit   Method of Test   Limit as per E (P)   Rules Schedule VI  | m]       | Date of receiving the sample in Labora | atory   |       | 09.02.23                         |      |              |            |  |
| No.  |          |  | tion Date                                     |       | 09.02.23 / 12.02                 | .23  |              |            |  |
| 2         Suspended Solids         mg/l.         IS 3025(Part-17)         100.0         62.0           3         Oil & Grease         mg/l.         IS 3025 (Part-39)         10.00         1.4           4         B.O.D.(3 days at 27°C)         mg/l.         IS 3025 (Part-44)         100.00         26.0           5         C.O.D.         mg/l.         APHA 5220 B         Not Specified         112.0           6         Dissolved Phosphate as P         mg/l.         APHA (4500-P-D)         Not Specified         1.3           7         Ammonical Nitrogen as N         mg/l.         IS 3025 (Part-34)         Not Specified         9.0           8         Total Kjeldahl Nitrogen as N         mg/l.         APHA (4500 N org)         Not Specified         12.9   | S.<br>N. | Parameters                             | Unit  | Me    | thod of Test                     |      |              | Result     |  |
| Oil & Grease   mg/l.   IS 3025 (Part-39)   10.00   1.4   | 1        | На                                     |   | IS    | 3025 (Part-11)                   | 5    | .5 to 8.5    | 7.25       |  |
| ## B.O.D.(3 days at 27°C)  | 2        | Suspended Solids                       | mg/l.   | IS    | 3025(Part-17)                    |      | 100.0        | 62.0       |  |
| C.O.D. mg/l. APHA 5220 B Not Specified 112.0 mg/l. APHA (4500-P-D) Not Specified 1.3  Ammonical Nitrogen as N mg/l. IS 3025 (Part-34) Not Specified 9.0  Total Kjeldahl Nitrogen as N mg/l. APHA (4500 N org) Not Specified 12.9   | 3        | Oil & Grease                           | mg/l.   | IS    | 3025 (Part-39)                   |      | 10.00        | 1.4        |  |
| Dissolved Phosphate as P  mg/l.  APHA (4500-P-D)  Ammonical Nitrogen as N  mg/l.  IS 3025 (Part-34)  Not Specified  1.3  APHA (4500 N org)  Not Specified  9.0  APHA (4500 N org)  Not Specified  9.0  | 1        | B.O.D.(3 days at 27°C)                 | mg/l.   | IS    | 3025 (Part-44)                   |      | 100.00       | 26.0       |  |
| Ammonical Nitrogen as N mg/l. IS 3025 (Part-34) Not Specified 1.3  Total Kjeldahl Nitrogen as N mg/l. APHA (4500 N org) Not Specified 9.0  Total Kjeldahl Nitrogen as N mg/l. APHA (4500 N org) Not Specified 12.9   | 5        | C.O.D.                                 | mg/l.   | A     | PHA 5220 B                       | No   | t Specified  | 112.0      |  |
| Total Kjeldahl Nitrogen as N mg/l. APHA (4500 N org) Not Specified 12.9  |          | Dissolved Phosphate as P               | mg/l.   |       |                                  | No   | t Specified  | 1.3        |  |
| Tatal Disease and California and Cal | **       | Ammonical Nitrogen as N                | mg/l.   | IS:   | 3025 (Part-34)                   | No   | t Specified  | 9.0        |  |
| Total Dissolved Solids mg/l. IS 3025(Part-16) 2100.00 412.0  | 7        | Total Kjeldahl Nitrogen as N           | mg/l.   | API   | HA (4500 N org)                  | Not  | Specified    | 12.9       |  |
|  | )        | Total Dissolved Solids                 | mg/l.   | IS    | 3025(Part-16)                    | 2    | 2100.00      | 412.0      |  |



Digitally signed by SHIBESHW SHIBESHWAR PRASAD AR PRASAD Date: 2023.02.21

Verified by: Technical Manager Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2023.02.21 13:32:07 +05'30'

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# TEST REPORT

| Ref.     | No. STH/TR/22-23/6147 Dt: 16.02                         | .2023 You                           | r Work Order No. WP/215/22   | Dt: 08.08.202 |  |  |
|----------|---|-------------------------------------|--|---------------|--|--|
| [a]      | Name and address of the Customer                        |                                     | Executive Director M/s MAJHAULIA SUGAR INDUS P.O.: Majhaulia W.Champaran – 845 454 | TRIES         |  |  |
| [b]      | Details of Sample                                       |                                     | Effluent Sample  |               |  |  |
| [c]      | Sample Collected by                                     | SHIVA TEST HOUSE on 08.02.23        |  |               |  |  |
|          | Sampling Location                                       | Collected from Cooling Tower Over F | low  |               |  |  |
|          | Method of Sampling                                      |                                     | IS 3025, APHA  |               |  |  |
| A. A.    | Sampling Environmental Condition                        |                                     |  | dity (%) 67   |  |  |
|          | Details of Sample Container (No. & Type                 | of Container)                       | Plastic Bottle (02)  |               |  |  |
|          | Sample Quantity   |                                     | 2 Litres<br>E-6147   |               |  |  |
|          | Sample Code   |                                     | Fit for Analysis   |               |  |  |
| 14.4     | Sample Condition on Receipt Items required to be tested |                                     | As per contract  |               |  |  |
| [1]      | Whether any specific Method of Test has by the customer | been suggested                      | No   |               |  |  |
|          | Date of receiving the sample in Laboratory              | У                                   | 09.02.23   |               |  |  |
| [n]      | Analysis Start Date / Analysis Completion               | Date                                | 09.02.23 / 12.02.23  |               |  |  |
| S.<br>N. | Parameters  | Unit                                | Method of Test   | Result        |  |  |
| 1        | рН  | in min                              | IS 3025 (Part-11)  | 6.58          |  |  |
| 2        | Suspended Solids  | mg/l.                               | IS 3025(Part-17)   | 26.0          |  |  |
| 3        | Oil & Grease  | mg/l.                               | IS 3025 (Part-39)  | 0.8           |  |  |
| 4        | B.O.D.(3 days at 27°C)                                  | mg/l.                               | IS 3025 (Part-44)  | 8.0           |  |  |
| 5        | C.O.D.  | mg/l.                               | APHA 5220 B  | 64.0          |  |  |
| 6        | Dissolved Phosphate as P                                | mg/l.                               | APHA ( 4500-P-D )  | 0.91          |  |  |
| 7        | Ammonical Nitrogen as N                                 | mg/l.                               | IS 3025 (Part-34)  | 7.3           |  |  |
| 8        | Total Kjeldahl Nitrogen as N                            | mg/l.                               | APHA (4500 N org)  | 11.2          |  |  |
| 9        | Total Dissolved Solids                                  | mg/l.                               | IS 3025(Part-16)   | 508.0         |  |  |
| 10       | Sulphate as SO <sub>4</sub>                             | mg/l.                               | IS 3025 (Part-24)  | 60.5          |  |  |
|          | Fluoride as F   | mg/l.                               | APHA 4500 (F D)  | 0.64          |  |  |
| 11       | Fluoride as F   |                                     | / (( 1) ( 1000 (( D)   | 0.01          |  |  |

Digitally signed by SHIBESHW SHIBESHWAR PRASAD AR PRASAD Date: 2023.02.21

Verified by: Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2023.02.21 13:32:21 +05'30' Authorized Signatory Ouality Manager

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Mob: +918676886249; +919431047908 sthpatnal@yahoo co.in ; info@shivatest.com Email:





# SHIVA TEST HOUSE



(Serving since 1988)

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#### TEST REPORT

| Ref. No. STH/TR/22-23/6148-6151 Dt: 16.02.2023                             | Your Work Order No. WP/215/22 Dt: 08.08.2022  |
|--|---|
| [a] Name and address of the Customer                                       | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES P.O.: Majhaulia W.Champaran – 845 454 |
| [b] Details of Sample  | Monitoring of Ambient Air Quality   |
| [c] Sample Collected by  | SHIVA TEST HOUSE on 08.02.23  |
| [d] Sampling Location  | Premises of Sugar Mill  |
| [e] Method of Sampling   | IS 5182 (Part - 14)   |
| [f] Sampling Environmental Condition                                       | Temp. (°C) 24 Humidity (%) 67   |
| [g] Details of Sample Container (No. & Type of Container)                  | Filter Paper; Glass Impinger  |
| [h] Instrument ID  | RDS-1, RDS-2, RDS-3, RDS-4, FPM-1, FPM-2, FPM-3, FPM-4                                  |
| [i] Sample Quantity  | 30 ml x 24 (for each NO <sub>2</sub> , SO <sub>2</sub> )                                |
| [j] Sample Condition on Receipt  | Fit for Analysis  |
| [k] Items required to be tested  | As per contract   |
| [I] Whether any specific Method of Test has been suggested by the customer | No  |
| [m] Date of receiving the sample in Laboratory                             | 09.02.23  |
| [n] Analysis Start Date / Analysis Completion Date                         | 09.02.23 / 11.02.23   |

|   |                     | Name and the last of the last | Limit as per  |                                  | Sampling St                        | ation / Result                       |                          |
|---|---------------------|---|---------------|----------------------------------|------------------------------------|--------------------------------------|--------------------------|
| Parameters                              | Unit                | Method of<br>Test   | NAAQS<br>2009 | Near Main<br>Gate<br>(SC_A-6148) | Near Guest<br>House<br>(SC_A-6149) | Near Cooling<br>Tower<br>(SC_A-6150) | Near Store<br>(SC_A-6151 |
|   |                     | 10 5400   |               | 88.0                             | 76.1                               | 84.0                                 | 76.6                     |
| Particulate Matter (PM <sub>10</sub> )  | $\mu g / m^3$       | IS 5182   | 100           | 77.9                             | 65.4                               | 69.6                                 | 65.1                     |
|   | 7.3                 | (Part-23)   |               | 71.4                             | 88.0                               | 76.4                                 | 84.6                     |
|   |                     |   |               | 48.2                             | 48.0                               | 43.0                                 | 46.6                     |
| Particulate Matter (PM <sub>2.5</sub> ) | μg / m <sup>3</sup> | CPCB GMAAP  | 60            | 35.5                             | 34.1                               | 34.2                                 | 35.3                     |
|   | (F-9.07.15).        |   |               | 43.1                             | 43.0                               | 40.5                                 | 42.8                     |
|   |                     |   |               | 16.6                             | 16.8                               | 18.1                                 | 22.7                     |
|   |                     |   |               | 14.0                             | 16.0                               | 11.3                                 | 17.1                     |
|   | , ,                 | IS 5182   | 90            | 8.8                              | 9.4                                | 9.1                                  | 9.9                      |
| Sulphur Dioxide as SO <sub>2</sub>      | μg / m³             | (Part-2)  | 80            | 10.7                             | 12.6                               | 10.1                                 | 8.9                      |
|   |                     | No office of the  |               | 12.7                             | 13.6                               | 12.1                                 | 12.8                     |
|   |                     |   |               | 17.6                             | 17.8                               | 17.1                                 | 18.8                     |
|   |                     |   |               | 41.1                             | 41.3                               | 38.3                                 | 43.0                     |
|   |                     |   |               | 38.0                             | 37.8                               | 35.6                                 | 33.6                     |
|   |                     | IS 5182   | 80            | 29.9                             | 32.0                               | 32.1                                 | 30.2                     |
| Nitrogen Dioxide as NO <sub>2</sub>     | $\mu g / m^3$       | (Part-6)  | 80            | 25.9                             | 32.8                               | 26.0                                 | 25.5                     |
|   |                     | 1   |               | 32.5                             | 37.5                               | 28.7                                 | 39.6                     |
|   |                     |   |               | 39.2                             | 42.7                               | 41.0                                 | 44.3                     |
| Average Value                           |                     |   |               |                                  |                                    |                                      |                          |
| PM <sub>10</sub>                        | μg / m <sup>2</sup> | 9   |               | 79.1                             | 76.5                               | 76.7                                 | 75.4                     |
| PM <sub>2.5</sub>                       | μg / m              |   |               | 42.2                             | 41.7                               | 39.2                                 | 41.6                     |
| SO <sub>2</sub>                         | μg / m <sup>3</sup> |   |               | 13.4                             | 14.4                               | 13.0                                 | 15.0                     |
| NO <sub>2</sub>                         | μg/m <sup>2</sup>   |   |               | 34.4                             | 37.3                               | 33.6                                 | 36.0                     |

SHIBESHW AR PRASAD Date: 2023.02.21

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager



Prasad

Shreyasee Shreyasee Prasad Date: 2023.02.21 13:32:32 +05'30'

Authorized Signatory Quality Manager

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Email: sthpatnal@yahoo.co.in . info@shivatest.com

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#### TEST REPORT

| Ref. | No. STH/TR/22-23/6152 Dt: 16.0                                     | 02.2023              | Your Work Order N   | lo. WP/215/22   | Dt: 08.08.2022   |
|------|--|----------------------|---|---|--|
| [a]  | Name and address of the Customer                                   |                      | Executive Dir<br>M/s MAJHAUL<br>P.O.: Majhaul<br>W.Champara | A SUGAR INDUSTRIE<br>ia                               | s  |
| [b]  | Details of Sample  |                      | Monitoring of   | f Stack Emission                                      |  |
| [c]  | Sample Collected by  |                      |   | OUSE on 08.02.23                                      |  |
| [d]  | Sampling Location  |                      | Premises of   | Sugar Mill  |  |
| [e]  | Method of Sampling   |                      | IS 5182 (Part   | - 14)   |  |
| [f]  | Sampling Environmental Condition                                   |                      | Temp. (°C)  | 24 Humidity   | (%) 67   |
| [g]  | No. & Type of Container  |                      | Thimble & Gla   | ss Impinger   |  |
| [h]  | Instrument ID  |                      | VSS 1PLS  |   |  |
| [i]  | Sample Quantity  |                      | 60 ml   |   |  |
| [j]  | Sample Code  |                      | ST-6152   |   |  |
| [k]  | Sample Condition on Receipt  |                      | Fit for Analysis  |   |  |
|      | Items required to be tested  |                      | As per contrac  | t   |  |
| [m]  | Whether any specific Method of Test<br>been suggested by the party | t has                | No  |   | *  |
| [n]  | Date of receiving the sample                                       |                      | 09.02.23  |   |  |
| [0]  | Analysis Start Date / Analysis Comp                                | letion Date          | 09.02.23 / 11.0.  | 2.23  |  |
|      | Parameters   | Unit                 | Method of Test  | Resi  | ults   |
| 1.   | Type of Fuel   |                      |   | Baga  |  |
| 2.   | Stack Connected to   |                      |   | Dumping Grate Boiler<br>generation capa               |  |
| 3.   | Stack No.  |                      |   | 1   |  |
| 4.   | Height of Stack above ground level (as reported)                   | Meter                |   | 30.00   | ) M.   |
| 5.   | Dia of Stack at Top (as reported)                                  | Meter                |   | 1.55  |  |
| 6.   | Material of Constriction   |                      |   | ID F  | ***  |
| 7.   | Material of Construction   |                      | 9   | M.  |  |
| 8.   | Ambient Temperature  | °C                   | ×   | 24  |  |
| 9.   | Flue Gas Temperature   | °C                   |   | 104   |  |
| 10.  | Velocity   | m/sec.               | IS 11255 (Part-3)   | 8.  |  |
| 11.  | Volumetric Flow Rate   | NM <sup>3</sup> /hr. |   | 4274  |  |
| 12.  | Sampling Point   | Meter                |   | 11.00   | Control of the contro |
|      | *  |                      |   | Limit as per E (P)<br>Rules Schedule I                | Concentration<br>( mg / NM³ )  |
| 13.  | Particulate Matter (P.M.)  | mg / NM³             | IS 11255 (Part-1)   | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 35.6   |
| 14.  | Sulphur Dioxide (SO <sub>2</sub> )                                 | mg / NM³             | IS 11255 (Part-2)   | Not Specified   | 13.8   |
| _    | Oxides of Nitrogen (NO <sub>2</sub> )                              | mg / NM³             | IS 11255 (Part-7)   | Not Specified   | 26.5   |

SHIBESHW AR PRASAD Date: 2023.02.21 13:21:20 +05'30'

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-- END OF TEST REPORT --

Prasad

Shreyasee Digitally signed by Shreyasee Prasad Date: 2023.02.21 13:32:44 +05'30'

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#### TEST REPORT

| Ref.  | No. STH/TR/22-23/6153 Dt: 16.0                            | 12.2023              | Your Work Order N  | WED THE THE PERSON NAMED OF THE PERSON NAMED O | Dt: 08.08.202                |
|-------|---|----------------------|--|--|------------------------------|
| [a]   | Name and address of the Customer                          |                      | Executive Dir<br>M/s MAJHAUL<br>P.O.: Majhau<br>W.Champara | IA SUGAR INDUSTRIE<br>lia  | s                            |
| [b]   | Details of Sample   |                      | Monitoring of  | of Stack Emission  |                              |
| [c]   | Sample Collected by                                       |                      |  | OUSE on 08.02.23   |                              |
| [d]   | Sampling Location   |                      | Premises of  | Sugar Mill   |                              |
| [e]   | Method of Sampling  |                      | IS 5182 (Part  | - 14)  | .9-                          |
| [f]   | Sampling Environmental Condition                          |                      | Temp. (°C)   | 24 Humidity  | (%) 67                       |
| [g]   | No. & Type of Container                                   |                      | Thimble & Gla  | ass Impinger   |                              |
| [h]   | Instrument ID   |                      | VSS IPLS   |  |                              |
| [i]   | Sample Quantity   |                      | 60 ml  |  |                              |
| [i]   | Sample Code   |                      | ST-6153  |  |                              |
| [k]   | Sample Condition on Receipt                               |                      | Fit for Analysis   |  |                              |
| [1]   | Items required to be tested                               |                      | As per contrac   |  |                              |
| [m]   | Whether any specific Method of Test                       | has                  | No   |  |                              |
| r - 1 | been suggested by the party  Date of receiving the sample |                      | 09.02.23   |  |                              |
| [n]   | Analysis Start Date / Analysis Compl                      | ation Data           | 09.02.23 / 11.0  | 2 23   |                              |
| [0]   | Parameters  | Unit                 | Method of Test   | Resi   | ults                         |
| 1.    | Type of Fuel  |                      | metriod or root  | Baga   | 200 E 700                    |
| 7070  |   |                      |  | Horse Shoe Type Bo   |                              |
| 2.    | Stack Connected to  |                      |  | Steam generation ca  |                              |
| 3.    | Stack No.   |                      |  |  |                              |
| 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 F   | an                           |
| 7.    | Material of Construction                                  |                      | 4  | M.S  | S.                           |
| 8.    | Ambient Temperature                                       | °C                   | × .  | 24.  | .0                           |
| 9.    | Flue Gas Temperature                                      | °C                   |  | 112  | 2.0                          |
| 10.   | Velocity  | m/sec.               | IS 11255 (Part-3)  | 8.3  | 2                            |
| 11.   | Volumetric Flow Rate                                      | NM³/hr.              |  | 1161   | 10.5                         |
| 12.   | Sampling Point  | Meter                |  | 19.00  |                              |
|       |   |                      |  | Limit as per E (P)<br>Rules Schedule I   | Concentration<br>( mg / NM³) |
| 13.   | Particulate Matter (P.M.)                                 | mg / NM³             | IS 11255 (Part-1)  | 500,00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> )  | 46.2                         |
| 14.   | Sulphur Dioxide (SO <sub>2</sub> )                        | mg / NM³             | IS 11255 (Part-2)  | Not Specified  | 15.0                         |
| 15.   | Oxides of Nitrogen (NO <sub>2</sub> )                     | mg / NM <sup>3</sup> | IS 11255 (Part-7)  | Not Specified  | 39.3                         |

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> Verified by: Technical Manager



Shreyasee Prasad Date: 2023.02.21

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## TEST REPORT

| Ref. No. STH/TR/22-23/61  | Dt: 16.02.             | 2023                       | Your Work Order No            |  | Dt. 00   | 8.08.2022    |
|---|------------------------|----------------------------|-------------------------------|--|--|--------------|
| a] Name and address of  |                        |                            | P.O.: Majhauli<br>W.Champaran | A SUGAR INDUSTRIES<br>a<br>– 845 454   | 8  |              |
| [b] Details of Sample   | 3                      |                            | Monitoring of                 | Stack Emission   |  |              |
|   |                        |                            | SHIVA TEST HO                 | USE on 08.02.23  |  |              |
|   |                        |                            | Premises of S                 | ugar Mill  |  |              |
|   |                        |                            | IS 5182 (Part -               |  |  |              |
|   | nmental Condition      |                            | Temp. (°C)                    | 24 Humidity  | (%)  | 67           |
|   | entainar               | *                          | Thimble & Glas                | ss Impinger  |  |              |
| [g] No. & Type of Co  | ontainer               |                            | VSS IPLS                      |  |  |              |
| [h] Instrument ID   |                        |                            | 60 ml                         |  |  |              |
| [i] Sample Quantity   |                        |                            | ST-6154                       |  |  |              |
| [j] Sample Code   | - Descint              |                            | Fit for Analysis              |  |  |              |
| [k] Sample Condition  |                        |                            | As per contrac                | t  |  |              |
| [1] Items required to   | be tested              | 200                        | 7 to por contras              |  |  |              |
|   | cific Method of Test h | 185                        | No                            |  |  |              |
| been suggested b  |                        |                            | 09.02.23                      |  |  |              |
| [n] Date of receiving   | the sample             | tion Data                  | 09.02.23 / 11.02              | 23   |  |              |
| [o] Analysis Start Da   | ate / Analysis Comple  | ction Date                 | Method of                     |  | 14-  |              |
| Param   | eters                  | Unit                       | Test                          | Resi   |  |              |
| Type of Fuel  |                        |                            |                               | Baga   | asse   | a a troute   |
| NAME OF THE PARTY |                        |                            |                               | Dumping Grate Type<br>Steam generation of                                      | Boiler No  | . 11 navin   |
| <ol><li>Stack Connected to</li></ol>  |                        |                            |                               | Steam generation C   |  | 7.0 1 7 111. |
| 3. Stack No.  |                        | and to                     |                               |  |  |              |
| 4. Height of Stack above  | e ground level (as     | Meter                      |                               | 2.50   | #3/30001   |              |
|   |                        |                            |                               | 2.51   | 1 1//1   |              |
| reported)   | s reported)            | Meter                      |                               |  |  |              |
| reported) 5. Dia of Stack at Top (a   |                        | Meter                      |                               | ID F   | an   |              |
| reported) 5. Dia of Stack at Top (a 6. Material of Constriction   | on                     |                            |                               | ID F   | Fan<br>CC  |              |
| reported) 5. Dia of Stack at Top (a 6. Material of Constriction 7. Material of Construction   | on<br>on               |                            |                               | ID F   | an<br>CC<br>0                                    |              |
| reported) 5. Dia of Stack at Top (a 6. Material of Constriction 7. Material of Construction 8. Ambient Temperature  | on<br>on               |                            | 2                             | ID F<br>RC<br>24   | an<br>CC<br>0<br>5.0                             |              |
| reported) 5. Dia of Stack at Top (a 6. Material of Construction 7. Material of Construction 8. Ambient Temperature 9. Flue Gas Temperature  | on<br>on               | °C °C m/sec.               | IS 11255 (Part-3)             | ID F<br>RC<br>24<br>11!  | an<br>CC<br>0<br>5.0                             |              |
| reported) 5. Dia of Stack at Top (a 6. Material of Constriction 7. Material of Construction 8. Ambient Temperature 9. Flue Gas Temperature 10. Velocity   | on<br>on<br>e          | oC                         | IS 11255 (Part-3)             | ID F<br>RC<br>24<br>11:<br>7   | Fan<br>CC<br>5.0<br>5.0<br>8<br>435.1            |              |
| reported) 5. Dia of Stack at Top (a 6. Material of Constriction 7. Material of Construction 8. Ambient Temperature 9. Flue Gas Temperature 10. Velocity 11. Volumetric Flow Rate  | on<br>on<br>e          | °C °C m/sec.               | IS 11255 (Part-3)             | ID F<br>RC<br>24<br>11!<br>7<br>1064<br>21.0                                   | Fan<br>CC<br>.0<br>.5.0<br>.8<br>.35.1           |              |
| reported) 5. Dia of Stack at Top (a 6. Material of Constriction 7. Material of Construction 8. Ambient Temperature 9. Flue Gas Temperature 10. Velocity   | on<br>on<br>e          | °C °C m/sec. NM³/hr.       | IS 11255 (Part-3)             | 1D F RC 24 11: 7 1064 21.0 Limit as per E (P)                                  | Fan<br>CC<br>.0<br>.5.0<br>.8<br>.35.1           | entration    |
| reported) 5. Dia of Stack at Top (a 6. Material of Constriction 7. Material of Construction 8. Ambient Temperature 9. Flue Gas Temperature 10. Velocity 11. Volumetric Flow Rate 12. Sampling Point   | on<br>on<br>e<br>re    | °C °C m/sec. NM³/hr.       | 500.00 mg / NM <sup>3</sup>   | ID F<br>RC<br>24<br>11!<br>7<br>1064<br>21.0                                   | Fan<br>CC<br>5.0<br>5.0<br>.8<br>135.1<br>0 M.   | entration    |
| reported) 5. Dia of Stack at Top (a 6. Material of Constriction 7. Material of Construction 8. Ambient Temperature 9. Flue Gas Temperature 10. Velocity 11. Volumetric Flow Rate  | on<br>on<br>ee<br>ee   | °C °C m/sec. NM³/hr. Meter |                               | 1D F RC 24 11: 7 1064 21.0 Limit as per E (P) Rules Schedule I 500.00 mg / NM³ | Fan<br>CC<br>0<br>5.0<br>.8<br>.35.1<br>0 M.<br> |              |

SHIBESHW AR PRASAD Date: 2023.02.21 13:22:04+05'30'

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager



Shreyasee Prasad

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# SHIVA TEST HOUSE



(Serving since 1988)

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#### TEST REPORT

| Ref. | No. STH/TR/22-23/6155 Dt:                                  | 16.02.2023 | Your Work Order No. WP/   | 215/22 Dt: 08.08.202             |
|------|--|------------|---|----------------------------------|
| [a]  | Name and address of the Custom                             | er         | Executive Director<br>M/s MAJHAULIA SUGAR I<br>P.O.: Majhaulia<br>W.Champaran – 845 454 |                                  |
| [b]  | Sampling Environmental Cond                                | lition     | Temp. (°C)  | 24 Humidity (%) 67               |
| [c]  | Details of Sample  |            | Monitoring of Ambient No<br>periphery   | oise Level within factory        |
| [d]  | Monitored by   |            | SHIVA TEST HOUSE on   | 08.02.23                         |
| [e]  | Items required to be tested                                | *          | As per request  |                                  |
| [f]  | Whether any specific Method of been suggested by the party | Γest has   | No  | 4                                |
|      | Monitoring Location  | 11-14      | Time Weighted Aver  | age (TWA) of Noise Level         |
| S. N | Monitoring Location  | Unit       | Day time (6:00 am to 10:00 pm)  | Night time (10:00 pm to 6:00 am) |
| 1.   | Near Main Gate   | dB(A)      | 62.9  | 50.2                             |
|      |  |            |   |                                  |
| 2.   | Near Guest house   | dB(A)      | 57.3  | 47.6                             |
|      | Near Guest house  Near Cooling Tower                       | dB(A)      | 57.3<br>67.4  | 47.6<br>52.5                     |
| 2.   |  |            |   |                                  |

8000013

SHIBESHW AR PRASAD Date: 2023.02.21

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2023.02.21 13:33:40 +05'30' Authorized Signatory

Quality Manager

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#### TEST REPORT

| Ref. No  | o. STH/TR/22-23/53                   | 34(MCB)       | Dt: 19.01.2023     | Your Work Order  | No. WP/21     | 15/22 Dt :0  | 8.08.2022 |
|----------|--------------------------------------|---------------|--------------------|--|---------------|--------------|-----------|
| [a] Nar  | me and address of th                 | e Customer    |                    | Executive Dire M/s MAJHAUL LTD. P.O.: Majhauli W. Champara | IA SUG        |              | ES PVT.   |
| [b] Det  | ails of Sample                       |               |                    | Borewell Water San   | nple          |              |           |
| [c] San  | mple Collected by                    |               |                    | SHIVA TEST HOU   | JSE on 10.    | 01.23        |           |
| [d] San  | mpling Location                      |               |                    | Collected from Bore  | ewell Near (  | Juest House  |           |
| [e] Met  | thod of Sampling                     |               |                    | IS 1622  |               |              |           |
| [f] San  | npling Environmenta                  | I Condition   |                    | Temp (°c)  | 13            | Humidity (%) | 75        |
| [g] No   | . & Type of Containe                 | ۰ſ            |                    | One Sterilized Gla   | ass Bottle    |              |           |
| [h] San  | mple Quantity                        |               |                    | 250 ml   |               |              |           |
| [i] San  | nple Code                            |               |                    | BW-5334  |               |              |           |
| [j] San  | nple Condition on Re                 | eceipt        |                    | Fit for analysis   |               |              |           |
| [k] Iten | ns required to be tes                | ted           |                    | As per contract  |               |              |           |
|          | ether any specific Me<br>he customer | ethod of Test | has been suggested | No.  |               |              |           |
| [m] Date | e of receiving the sa                | mple in Labor | atory              | 11.01.23   |               |              |           |
| [n] Ana  | alysis Start Date / An               | alysis Comple | etion Date         | 11.01.23 / 12.01.2   | 23            |              |           |
| S.N.     | Parameters                           | Unit          | Method of Test     | Limit as per IS 1  | 0500: 2012    | Resu         | ilts      |
| 1        | Total Coliform                       | / 100 ml      | IS 1622:1981       | Shall not be detectab                                      | ole in 100 ml | Not Detecte  | d / 100 m |



Authorized Signatory Section In-Charge (Microbiology)

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#### TEST REPORT

| [a] Nar   | me and address of the Custo   | mer  |   | M/s MA<br>P.O.: I  | tive Director<br>MAHAULIA SUGAR<br>Majhaulia<br>Imparan – 845 45                     | INDUSTRIES PVT. L                                   | .TD.                  |
|---|---|--|---|--|--|---|-----------------------|
| [b] Det   | ails of Sample  |  |   | Surfac   | e Water Sample   |   |                       |
|   | mple Collected by   |  |   |  | TEST HOUSE of  |   |                       |
|   | mpling Location   |  |   |  |  | am of River Kohra                                   |                       |
| e] Me   | thod of Sampling  |  |   |  | 5, APHA  |   | 7.5                   |
| fl Sar  | mpling Environmental Conditi  | ion  |   | Temp.  |  | 3 Humidity (%)                                      | 75                    |
|   | tails of Sample Container (No   | . & Type of                                    | Container)  | _  | Bottle (02)  |   |                       |
|   | mple Quantity   |  |   | 2 Litre  |  |   |                       |
|   | mple Code   |  | *   | SW-53  | Analysis   |   |                       |
|   | mple Condition on Receipt   |  |   |  | contract.  |   |                       |
| VI ITOR   | ns required to be tested  |  |   | 710 pci  | oone dot.  |   |                       |
| [I] Wh  | ether any specific Method of  | Test has be                                    | en suggested  | No   |  |   |                       |
| [l] Wh  | ether any specific Method of<br>the customer  |  | een suggested   | No 11.01.  | 23   |   |                       |
| [l] Wh<br>by<br>[m] Dat   | ether any specific Method of<br>the customer<br>te of receiving the sample in   | Laboratory                                     |   | 11.01.   | 23 / 14.01.23  |   |                       |
| [i] Wh<br>by<br>[m] Dat<br>[n] And<br><b>S.</b>   | ether any specific Method of<br>the customer  | Laboratory                                     |   | 11.01.   |  |   | Result                |
| [i] Wh<br>by<br>[m] Dat<br>[n] And  | ether any specific Method of<br>the customer<br>te of receiving the sample in<br>alysis Start Date / Analysis C   | Laboratory<br>ompletion D                      | ate   | 11.01.   | 23 / 14.01.23<br>Tolerance Lim   |   | Resul                 |
| il When by [m] Dar [n] And S. No.   | ether any specific Method of<br>the customer<br>te of receiving the sample in<br>alysis Start Date / Analysis C   | Laboratory<br>ompletion D                      | ate   | 11.01.<br>11.01.<br>f Test   | 23 / 14.01.23  Tolerance Lim   | 1982  | Result                |
| il When by [m] Dar [n] And S. No.   | tether any specific Method of<br>the customer<br>te of receiving the sample in<br>alysis Start Date / Analysis C<br>Parameters  | Laboratory<br>ompletion D<br>Unit              | ate<br>Method o   | 11.01.<br>11.01.<br>f Test   | 23 / 14.01.23<br>Tolerance Lim<br>2296-1<br>For Class<br>'A'*                        | For Class 'C'**                                     |                       |
| II When by many particular solution in the by many | ether any specific Method of<br>the customer<br>te of receiving the sample in<br>alysis Start Date / Analysis C<br>Parameters   | Laboratory<br>ompletion D<br>Unit              | Method of   | 11.01.<br>11.01.<br>f Test   | 23 / 14.01.23  Tolerance Lim   | For Class 'C'** 6.5 – 8.5                           | 7.91<br>65.0          |
| II] Wh by [m] Daf [n] And S. No.  | ether any specific Method of<br>the customer<br>te of receiving the sample in<br>alysis Start Date / Analysis C<br>Parameters<br>pH  Total Suspended Solids                                     | Laboratory ompletion D Unit  mg/l.             | Method of<br>Method of<br>IS 3025 (Par<br>IS 3025(Par                       | 11.01.<br>11.01.<br>f Test<br>rt-11)<br>rt-17)                     | 23 / 14.01.23  Tolerance Lim   | For Class 'C"+  6.5 - 8.5  Not Specified  1500  3.0 | 7.91<br>65.0<br>296.0 |
| [I] Wh by [m] Dar [n] And S. No.  | ether any specific Method of the customer te of receiving the sample in alysis Start Date / Analysis C Parameters  pH Total Suspended Solids Total Dissolved Solids                             | Laboratory ompletion D Unit  mg/l. mg/l.       | IS 3025 (Par<br>IS 3025 (Par<br>IS 3025 (Par                                | 11.01.<br>11.01.<br>f Test<br>rt-11)<br>rt-17)<br>rt-16)           | 23 / 14.01.23  Tolerance Lim   | For Class 'C'**  6.5 – 8.5  Not Specified  1500     | 7.91<br>65.0<br>296.0 |
| [I] Wh<br>by<br>[m] Dat<br>[n] And  | pether any specific Method of the customer te of receiving the sample in alysis Start Date / Analysis C Parameters  pH  Total Suspended Solids  Total Dissolved Solids  B.O.D. (3 days at 27°C) | Laboratory ompletion D Unit  mg/l. mg/l. mg/l. | IS 3025 (Par<br>IS 3025 (Par<br>IS 3025 (Par<br>IS 3025 (Par<br>IS 3025 (Pa | 11.01.<br>11.01.<br>f Test<br>rt-11)<br>rt-17)<br>rt-16)<br>rt-44) | 23 / 14.01.23  Tolerance Lim 2296-1  For Class 'A'* 6.5 - 8.5  Not Specified 500 2.0 | For Class 'C"+  6.5 - 8.5  Not Specified  1500  3.0 | 65.0<br>296.0<br>1.7  |

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> Verified by: Technical Manager



Prasad

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## TEST REPORT

| ails of Sample   |  |  |  | Majhaulia<br>amparan – 845 45  | 4                               |   |
|--|--|--|--|--|---------------------------------|---|
|  |  |  |  | e Water Sample   |                                 |   |
| ple Collected by   |  |  |  | TEST HOUSE or  |                                 |   |
| npling Location  |  |  |  |  | tream of River Ko               | hra   |
| hod of Sampling  |  |  |  |  | 11. 11. (0/)                    | 7.5   |
| e] Method of Sampling f] Sampling Environmental Condition                    |  |  |  | 1 -/   | Humidity (%)                    | 75  |
| ails of Sample Container (No   | o. & Type of   | Container)   | ·  |  |                                 |   |
|  |  |  |  |  |                                 |   |
|  |  | -  |  | Marie Control of the  |                                 |   |
|  |  |  |  | The state of the s |                                 |   |
| ether any specific Method of<br>the customer<br>e of receiving the sample in | Laboratory   |  |  |  |                                 |   |
| Parameters   | Unit   | Method of  |  | Tolerance Limi   |                                 | Result  |
|  |  |  |  | For Class 'A"  | For Class 'C'++                 |   |
| рН   |  | IS 3025 (Par   | t-11)  | 6.5 - 8.5  | 6.5 - 8.5                       | 7.81  |
| Total Suspended Solids   | mg/l.  | IS 3025(Par  | t-17)  | Not Specified  | Not Specified                   | 74.0  |
| Total Dissolved Solids   | mg/l.  | IS 3025 (Par   | t-16)  | 500.0  | 1500.0                          | 302.0   |
| B.O.D. (3 days at 27°C)  | mg/l.  | IS 3025 (Par   | t-44)  | 2.0  | 3.0                             | 2.0   |
| C.O.D.   | mg/l.  | APHA (522)   | 0 B)   | Not Specified  | Not Specified                   | 28.0  |
| Chloride as CI   | mg/l.  | IS 3025 (Par   | t-32)  | 250.0  | 600.0                           | 17.0  |
| Dissolved Oxygen   | mg/l.  | IS 3025 (Par   | + 20)  | 6.0  | 4.0                             | 7.6   |
| rrrr   | hod of Sampling Inpling Environmental Conditional Sample Container (Notable Container) Inple Quantity Inple Code Inple Condition on Receipt Instructions required to be tested Instruction of the customer Instruction of the customer Instruction of receiving the sample in Instruction of the Container Instruc | hod of Sampling Inpling Environmental Condition Inails of Sample Container (No. & Type of Inple Quantity Inple Code Inple Condition on Receipt Instructions required to be tested Instruction of Test has been served in the customer of the c | hod of Sampling Inpling Environmental Condition Inails of Sample Container (No. & Type of Container) Inple Quantity Inple Code Inple Condition on Receipt Instructions required to be tested Instruction of Test has been suggested the customer of Test has been suggested the cu | IS 302 Inpling Environmental Condition Temp. In ails of Sample Container (No. & Type of Container) Inple Quantity Inple Code Inple Condition on Receipt Instruction required to be tested Interest return the customer return the customer Interest return the customer return  | IS 3025, APHA   Temp. (°C)   13 | IS 3025, APHA   Temp. (°C)   13   Humidity (%)   ails of Sample Container (No. & Type of Container)   Plastic Bottle (02) |

SHIBESHW AR PRASAD Date: 2023.01.19 12:17:41 +05'30'

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e Prasad

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#### TEST REPORT

| Ref.     | No. STH/TR/22-23/5337 Dr                         | t: <b>19.01.2023</b> Yo | ur Work Order No. WP/21   | 15/22 Dt: 08.08.2022 |  |  |  |
|----------|--|-------------------------|---|----------------------|--|--|--|
| [a]      | Name and address of the Custom                   | er                      | Executive Director M/s MASHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                      |  |  |  |
| [b]      | Details of Sample                                |                         | Untreated Effluent Sa   |                      |  |  |  |
| [c]      | Sample Collected by                              |                         | SHIVA TEST HOUSE  | on 10.01.23          |  |  |  |
| [d]      | Sampling Location                                |                         | Collected from Inlet of   | ETP                  |  |  |  |
| [e]      | Method of Sampling                               |                         | IS 3025, APHA   |                      |  |  |  |
| [f]      | Sampling Environmental Conditio                  | n                       | Temp. (°C)  | 13 Humidity (%) 75   |  |  |  |
| [g]      | Details of Sample Container (No.                 | & Type of Container     | Plastic Bottle  |                      |  |  |  |
| [h]      | Sample Quantity                                  |                         | 2 Litres  |                      |  |  |  |
| [i]      | Sample Code                                      |                         | E-5337  |                      |  |  |  |
| [i]      | Sample Condition on Receipt                      |                         | Fit for Analysis  |                      |  |  |  |
| [k]      | Items required to be tested                      |                         | As per Contract   |                      |  |  |  |
| [1]      | Whether any specific Method of T by the customer | est has been suggested  | No  |                      |  |  |  |
| [m]      | Date of receiving the sample                     |                         | 11.01.23  |                      |  |  |  |
| [n]      | Analysis Start Date / Analysis Co                | mpletion Date           | 11.01.23 / 14.01.23   |                      |  |  |  |
| S.<br>N. | Parameters                                       | Unit                    | Method of Test  | Result               |  |  |  |
| 1        | рН   |                         | IS 3025 (Part-11)   | 8.72                 |  |  |  |
| 2        | Suspended Solids                                 | mg/l.                   | IS 3025(Part-17)  | 284.0                |  |  |  |
| 3        | Oil & Grease                                     | mg/l.                   | IS 3025 (Part-39)   | 4.5                  |  |  |  |
| 4        | B.O.D. (3 days at 27°C)                          | mg/l.                   | IS 3025 (Part-44)   | 280.0                |  |  |  |
| 5        | C.O.D.   | mg/l.                   | APHA 5220 B   | 928.0                |  |  |  |
| 6        | Dissolved Phosphate as P                         | mg/l.                   | APHA (4500-P-D)   | 4.2                  |  |  |  |
| 7        | Ammonical Nitrogen as N                          | mg/l.                   | IS 3025 (Part-34)   | 22.4                 |  |  |  |
| 8        | Total Kjeldahl Nitrogen as N                     | mg/l.                   | APHA (4500 N org)   | 38.6                 |  |  |  |
|          | Total Dissolved Solids                           | mg/l.                   | IS 3025(Part-16   | 2184.0               |  |  |  |

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#### TEST REPORT

| 140                                 | f. No. STH/TR/22-23/5338 Dt:   | 19.01.2023              | Y                                     | our Work Order N  |   | : 08.08.2022                            |
|-------------------------------------|--|-------------------------|---------------------------------------|---|---|---|
| [a]                                 | Name and address of the Customer   |                         |                                       | Executive Dire M/s MAJHAULI P.O.: Majhauli W.Champaran                        | A SUGAR INDUSTRIES P\                             | /T. LTD.                                |
| [b]                                 | Details of Sample  |                         |                                       | Treated Effluen   | t sample  |   |
|                                     | Sample Collected by  |                         | SHIVA TEST H                          | OUSE on 10.01.23  |   |   |
|                                     | Sampling Location  |                         |                                       | Collected from  |   |   |
| [e]                                 | Method of Sampling   |                         | IS 3025, APHA                         |   |   |   |
| fl Sampling Environmental Condition |  |                         |                                       | Temp. (°C)  | 13 Humidity (%)                                   | 75                                      |
| [g]                                 | Details of Sample Container (No. & Ty  | pe of Contai            | Plastic Bottle (                      | 02)   |   |   |
| [h]                                 | Sample Quantity  |                         |                                       | 2 Litres  |   |   |
| [i]                                 | Sample Code  |                         |                                       | E-5338  |   |   |
| []]                                 | Sample Condition on Receipt  | <u>~</u>                |                                       | Fit for Analysis  |   |   |
| [k]                                 | Items required to be tested  |                         |                                       | As per contrac  |   |   |
| [1]                                 | Whether any specific Method of Test by the customer                                  | nas been sug            | ggested                               | No  |   |   |
|                                     | Date of receiving the sample in Labor.   |                         |                                       | 11.01.23  |   |   |
| [n]                                 | Analysis Start Date / Analysis Comple  | tion Date               |                                       | 11.01.23 / 14.0   |   |   |
| S.<br>N.                            | Parameters   | Unit                    | M                                     | ethod of Test   | Limit as per E<br>(P) Rules Schedule<br>VI        | Result                                  |
|                                     | pH   |                         | IS 30                                 | 25 (Dort 11)  | 5.5 to 8.5  | 7.42                                    |
| 1                                   | 1700   |                         | IS 3025(Part-17)                      |   |   | 100000000000000000000000000000000000000 |
| 2                                   | Suspended Solids   | mg/l.                   | IS 30                                 | )25 (Part-11)<br>)25(Part-17)   | 100.0   |   |
| 10                                  | 1.00   | mg/l.                   |                                       |   | 100.0<br>10.00                                    | 42.0                                    |
| 2                                   | Suspended Solids   |                         | IS 30                                 | 025(Part-17)  |   | 42.0<br>1.2<br>20.0                     |
| 2                                   | Suspended Solids Oil & Grease  | mg/l.                   | IS 30                                 | 025(Part-17)<br>025 (Part-39)   | 10.00   | 42.0<br>1.2                             |
| 2<br>3<br>4<br>5                    | Suspended Solids Oil & Grease B.O.D.(3 days at 27°C)                                 | mg/l.                   | IS 30                                 | 025(Part-17)<br>025 (Part-39)<br>025 (Part-44)                                | 10.00<br>100.00                                   | 42.0<br>1.2<br>20.0                     |
| 2<br>3<br>4<br>5                    | Suspended Solids Oil & Grease B.O.D.(3 days at 27°C) C.O.D.                          | mg/l.<br>mg/l.<br>mg/l. | IS 30<br>IS 30<br>AP                  | 025(Part-17)<br>025 (Part-39)<br>025 (Part-44)<br>HA 5220 B                   | 10.00<br>100.00<br>Not Specified                  | 42.0<br>1.2<br>20.0<br>120.0            |
| 2<br>3<br>4<br>5                    | Suspended Solids Oil & Grease B.O.D.(3 days at 27°C) C.O.D. Dissolved Phosphate as P | mg/l. mg/l. mg/l. mg/l. | IS 30<br>IS 30<br>AP<br>APHA<br>IS 30 | 025(Part-17)<br>025 (Part-39)<br>025 (Part-44)<br>HA 5220 B<br>A ( 4500-P-D ) | 10.00<br>100.00<br>Not Specified<br>Not Specified | 42.0<br>1.2<br>20.0<br>120.0<br>0.82    |

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SHIBESHWAR PRASAD

Verified by: Technical Manager



Shreyasee Prasad

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#### TEST REPORT

|            | No. STH/TR/22-23/5339 Dt: 19.01.202.                                   |                     | Your Work Order  |              |        |        |
|------------|--|---------------------|--|--------------|--------|--------|
| [a]        | Name and address of the Customer                                       |                     | M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |              |        |        |
| [b]        | Details of Sample  | Treated Effluen     | t sample   |              |        |        |
| [c]        | Sample Collected by  | SHIVA TEST H        | OUSE on  | 10.01.23     |        |        |
| [d]        | Sampling Location  |                     | From Aeration  | Tank         |        |        |
| [e]        | Method of Sampling   | IS 3025, APHA       |  |              |        |        |
| [f]        | Sampling Environmental Condition                                       | Temp. (°C)          | 13   | Humidity (%) | 75     |        |
| [g]        | No. & Type of Container  | Plastic Bottle      |  |              |        |        |
| [h]        | Sample Quantity  |                     | 2 Litres   |              |        |        |
| [i]        | Sample Code  |                     | E-5339   |              |        |        |
| [j]        | Sample Condition on Receipt  |                     | Fit for Analysis   |              |        |        |
| [k]        | Items required to be tested  |                     | As per contract  |              |        |        |
| [1]        | Whether any specific Method of Test has<br>been suggested by the party |                     | No   |              |        |        |
| [m]        | Date of receiving the sample in Laboratory                             |                     | 11.01.23   |              |        |        |
| [n]        | Analysis Start Date / Analysis Completion I                            | Date                | 11.01.23 / 13.0  | 1.23         |        |        |
| SI.<br>No. | Parameters   | it Method of Test R |  |              | Result |        |
| 1.         | Mixed Liquor Suspended Solids (MLSS)                                   |                     |  |              |        | 2520.0 |
| 2.         | Mixed Liquor Volatile Suspended Solids (MLVSS)                         | mg/l                | IS 3025 (Part-24)  |              | 2240.0 |        |



SHIBESHW AR PRASAD Date: 2023.01.19

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager Prasad

Shreyasee Digitally signed by Shreyasee Prasad Date: 2023.01.19 12:21:03 +05'30'

> Authorized Signatory Quality Manager

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#### TEST REPORT

| Ref.     | . No. STH/TR/22-23/5340 Dt:                         | 19.01.2023      | Yo   | ur Work Order No.   |           | 5/22 Dt: 0                     | 08.08.2022 |
|----------|---|-----------------|------|---|-----------|--------------------------------|------------|
| [a]      | Name and address of the Customer                    |                 |      | Executive Direct<br>M/s MAJHAULIA S<br>P.O.: Majhaulia<br>W.Champaran – | SUGAR     |                                | . LTD.     |
| [b]      | Details of Sample                                   |                 |      | Lagoon Sample   |           |                                |            |
|          | Sample Collected by                                 |                 |      | SHIVA TEST HO   |           |                                |            |
|          | Sampling Location                                   |                 |      | Collected from Po   | nd Wate   | er                             |            |
|          | Method of Sampling                                  |                 |      | IS 3025, APHA   |           |                                |            |
| ſfl      | Sampling Environmental Condition                    |                 |      | Temp. (°C)  | 13        | Humidity (%)                   | 75         |
| [g]      | Details of Sample Container (No. & Ty               | pe of Container | )    | Plastic Bottle (02  | )         |                                |            |
|          | Sample Quantity                                     |                 |      | 2 Litres  |           |                                |            |
|          | Sample Code   |                 |      | E-5340  |           |                                |            |
| ſiì      | Sample Condition on Receipt                         |                 |      | Fit for Analysis  |           |                                |            |
| [k]      | Items required to be tested                         |                 |      | As per contract   |           |                                |            |
| [1]      | Whether any specific Method of Test by the customer | has been sugge  | sted | No  |           |                                |            |
| [m]      | Date of receiving the sample in Labor               | atory           |      | 11.01.23  | OSER-ON I |                                |            |
| [n]      | Analysis Start Date / Analysis Comple               | etion Date      |      | 11.01.23 / 14.01  |           | E (B)                          |            |
| S.<br>N. | Parameters  | Unit            | Me   | ethod of Test   | Rule.     | as per E (P)<br>es Schedule VI | Result     |
| 1        | pH  |                 | IS   | 3025 (Part-11)  | 5         | .5 to 8.5                      | 7.17       |
| 2        | Suspended Solids                                    | mg/l.           | IS   | 3025(Part-17)   |           | 100.0                          | 71.0       |
| 3        | Oil & Grease  | mg/l.           | IS   | 3025 (Part-39)  |           | 10.00                          | 1.1        |
| 4        | B.O.D.(3 days at 27°C)                              | mg/l.           | IS   | 3025 (Part-44)  |           | 100.00                         | 22.0       |
| 5        | C.O.D.  | mg/l.           | F    | APHA 5220 B   | No        | t Specified                    | 128.0      |
| 6        | Dissolved Phosphate as P                            | mg/l.           |      | APHA<br>( 4500-P-D )  | No        | t Specified                    | 1.1        |
| 7        | Ammonical Nitrogen as N                             | mg/l.           | IS   | 3025 (Part-34)  | No        | ot Specified                   | 10.1       |
| 8        | Total Kjeldahl Nitrogen as N                        | mg/l.           | AP   | HA (4500 N org)   | No        | ot Specified                   | 14.0       |
| 9        | Total Dissolved Solids                              | mg/l.           | IS   | 3025(Part-16)   |           | 2100.00                        | 396.0      |



Verified by: Technical Manager



Shreyasee Prasad

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# SHIVA TEST HOUSE



(Serving since 1988)

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#### TEST REPORT

| Ref. No. STH/TR/22-2                    | 3/5341-53                                | 44 Dt: 19         | 0.01.2023         | Your Work C   | order No. WP/                      | 215/22 I                             | Ot: 08.08.20            |  |  |  |
|---|--|-------------------|-------------------|---|------------------------------------|--------------------------------------|-------------------------|--|--|--|
| [a] Name and address of                 | the Custom                               | ner               |                   | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                                    |                                      |                         |  |  |  |
| [b] Details of Sample                   |  |                   |                   | Monitoring of An  | nhiant Air Quali                   | h.,                                  |                         |  |  |  |
| [c] Sample Collected by                 |  |                   |                   | Monitoring of Ambient Air Quality SHIVA TEST HOUSE on 10.01.23                                    |                                    |                                      |                         |  |  |  |
| [d] Sampling Location                   |  |                   |                   |   |                                    | .23                                  |                         |  |  |  |
|   |  |                   |                   | Premises of Sugar Mill  |                                    |                                      |                         |  |  |  |
| [e] Method of Sampling                  |  |                   |                   | IS 5182 (Part - 1   |                                    |                                      |                         |  |  |  |
| Sampling Environmental Condition        |  |                   |                   | Temp. (°C)  | 13 I                               | Humidity (%)                         | 75                      |  |  |  |
| [g] Details of Sample Co                | <ul> <li>&amp; Type of Contai</li> </ul> | ner)              | Filter Paper; Gla |   |                                    |                                      |                         |  |  |  |
| [h] Instrument ID                       |  |                   |                   | RDS-1, RDS-2,   | RDS-3, RDS-4,                      | FPM-1, FPM-2,                        | FPM-3, FPM-             |  |  |  |
| [i] Sample Quantity                     |  |                   | *                 | 30 ml x 24 (for e   |                                    |                                      |                         |  |  |  |
| [j] Sample Condition on                 | Receipt                                  |                   |                   | Fit for Analysis  |                                    |                                      |                         |  |  |  |
| [k] Items required to be to             | ested                                    |                   |                   | As per contract   |                                    |                                      |                         |  |  |  |
| [I] Whether any specific customer       |  | Test has been sug | gested by the     | No  |                                    |                                      |                         |  |  |  |
| [m] Date of receiving the               | sample in I                              | aboratory         |                   | 11.01.23  |                                    |                                      |                         |  |  |  |
| [n] Analysis Start Date / A             |  |                   |                   | 11.01.23 / 13.01.   | 22                                 |                                      |                         |  |  |  |
| [m] randiyalo oldir balorr              | Truly 313 Oc                             | Impletion Date    | T                 |   |                                    |                                      |                         |  |  |  |
|   | ***                                      | Method of         | Limit as per      |   |                                    | tation / Result                      |                         |  |  |  |
| Parameters                              | Unit                                     | Test              | NAAQS<br>2009     | Near Main<br>Gate<br>(SC_A-5341)  | Near Guest<br>House<br>(SC_A-5342) | Near Cooling<br>Tower<br>(SC_A-5343) | Near Store<br>(SC_A-534 |  |  |  |
| AND THE WOOD SEED IN TOTAL CO.          |  | IS 5182           |                   | 87.4  | 80.3                               | 86.2                                 | 83.4                    |  |  |  |
| Particulate Matter (PM <sub>10</sub> )  | $\mu g / m^3$                            | (Part-23)         | 100               | 72.2  | 65.2                               | 65.8                                 | 65.2                    |  |  |  |
|   |  | (1 011 20)        |                   | 78.3  | 72.8                               | 79.9                                 | 77.6                    |  |  |  |
| Particulate Matter (PM <sub>2.5</sub> ) | /3                                       | CDCD CMAAD        |                   | 47.9  | 42.8                               | 43.6                                 | 41.0                    |  |  |  |
| raniculate Matter (FIM2.5)              | $\mu g / m^3$                            | CPCB GMAAP        | 60                | 34.4  | 34.0                               | 33.6                                 | 32.3                    |  |  |  |
|   |  |                   |                   | 39.3<br>15.6  | 37.8<br>23.8                       | 39.9                                 | 38.6                    |  |  |  |
|   |  | ľ                 |                   | 10.6  | 15.2                               | 13.8<br>12.1                         | 20.8                    |  |  |  |
| Culabas Discisla - 20                   |  | IS 5182           |                   | 7.3   | 15.9                               | 11.8                                 | 12.8<br>11.5            |  |  |  |
| Sulphur Dioxide as SO <sub>2</sub>      | μg / m³                                  | (Part-2)          | 80                | 12.8  | 10.1                               | 13.1                                 | 7.5                     |  |  |  |
|   |  |                   |                   | 10.4  | 14.9                               | 14.8                                 | 15.6                    |  |  |  |
|   |  |                   |                   | 12.8  | 9.1                                | 8.1                                  | 14.9                    |  |  |  |
|   |  |                   |                   | 39.0  | 29.7                               | 35.5                                 | 39.0                    |  |  |  |
| No. Ob.                                 |  | 10.5              |                   | 38.3  | 31.7                               | 37.0                                 | 40.5                    |  |  |  |
| Nitrogen Dioxide as NO <sub>2</sub>     | μg / m³                                  | IS 5182           | 80                | 27.6  | 30.4                               | 28.1                                 | 29.0                    |  |  |  |
| 1.77                                    |  | (Part-6)          |                   | 23.9  | 26.2                               | 25.3                                 | 33.3                    |  |  |  |
|   |  |                   |                   | 29.7  | 31.7                               | 29.5                                 | 29.7                    |  |  |  |
| Average Value                           |  |                   |                   | 32.6  | 35.1                               | 24.0                                 | 31.1                    |  |  |  |
| PM <sub>10</sub>                        | μg / m³                                  |                   |                   | 79.3  | 72.8                               | 77.3                                 | 75.4                    |  |  |  |
| PM <sub>2.5</sub>                       | µg / m³                                  |                   |                   | 40.5  | 38.2                               | 39.1                                 | 37.3                    |  |  |  |
| SO <sub>2</sub>                         | μg / m³                                  |                   |                   | 11.6  | 14.8                               | 12.3                                 | 13.8                    |  |  |  |
| NO <sub>2</sub>                         | $\mu g / m^3$                            |                   |                   | 31.8  | 30.8                               | 29.9                                 | 33.8                    |  |  |  |

**SHIBESHW** AR PRASAD Date: 2023.01.19

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager



- END OF TEST REPORT -

Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2023.01.19 12:21:27 +05'30'

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# SHIVA TEST HOUSE



(Serving since 1988)

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## TEST REPORT

| Ref. No. STH/TR                                     | /22-23/5345 Dt: 19   | 0.01.2023   | Your Work Order N             |  | Dt: 08.08.2022                          |  |  |
|---|--|-------------|-------------------------------|--|---|--|--|
| [a] Name and addre                                  | ess of the Customer  |             | M/s MAJHAULI<br>P.O.: Majhaul | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454  |   |  |  |
| [b] Details of S                                    | ample  |             | Monitoring o                  | f Stack Emission   |   |  |  |
| [c] Sample Col                                      |  |             |                               | OUSE on 10.01.23   |   |  |  |
| [d] Sampling L                                      | The state of the s |             | Premises of                   | Sugar Mill   |   |  |  |
| [e] Method of S                                     |  |             | IS 5182 (Part -               |  |   |  |  |
|   | nvironmental Condition   |             | Temp. (°C)                    | 13 Humidity  | (%) 75                                  |  |  |
|   | of Container   |             | Thimble & Gla                 | A STATE OF THE PARTY OF THE PAR |   |  |  |
| [h] Instrument                                      |  | *           | VSS 1PLS                      |  |   |  |  |
| [i] Sample Qua                                      |  |             | 60 ml                         |  |   |  |  |
| [j] Sample Coc                                      |  |             | ST-5345                       |  |   |  |  |
|   | dition on Receipt  |             | Fit for Analysis              |  |   |  |  |
|   | red to be tested   |             | As per contrac                |  |   |  |  |
| [m] Whether an                                      | y specific Method of Test<br>ted by the party  | No          |                               |  |   |  |  |
| ~~  | eiving the sample  |             | 11.01.23                      |  |   |  |  |
|   | art Date / Analysis Comp   | letion Date | 7.10 5.10 5.5                 | 11.01.23 / 13.01.23  |   |  |  |
|   | rameters   | Unit        | Method of Test                | Resu   | ılts                                    |  |  |
| Type of Fuel  |  |             |                               | Baga   | sse ·                                   |  |  |
| 2. Stack Connected                                  | i to   |             |                               | Dumping Grate Boiler<br>generation capa  | No. 9 having Stear<br>city 32.0 T / hr. |  |  |
| 3. Stack No.  |  |             |                               |  |   |  |  |
| <ol> <li>Height of Stack a<br/>reported)</li> </ol> | above ground level (as   | Meter       |                               | 30.00 M.   |   |  |  |
| 5. Dia of Stack at T                                | op (as reported)   | Meter       |                               | 1.55   | M.                                      |  |  |
| 6. Material of Cons                                 |  |             |                               | ID F   | an                                      |  |  |
| 7. Material of Cons                                 | truction   |             |                               | M.5  | 3.                                      |  |  |
| 8. Ambient Temper                                   | ature  | °C          |                               | 18.  | 0                                       |  |  |
| 9. Flue Gas Tempe                                   | rature   | °C          |                               | 132  |   |  |  |
| 10. Velocity  |  | m/sec.      | IS 11255 (Part-3)             | 6.8  |   |  |  |
| 11. Volumetric Flow                                 | Rate   | NM³/hr.     |                               | 3385   |   |  |  |
| 12. Sampling Point                                  |  | Meter       |                               | 11.00  |   |  |  |
|   |  |             |                               | Limit as per E (P)<br>Rules Schedule I   | ( mg / NM <sup>2</sup> )                |  |  |
| 13. Particulate Matte                               | er (P.M.)  | mg / NM³    | IS 11255 (Part-1)             | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> )  | 23.3                                    |  |  |
| 14. Sulphur Dioxide                                 | (SO <sub>2</sub> )   | mg / NM³    | IS 11255 (Part-2)             | Not Specified  | 12.7                                    |  |  |
| 15. Oxides of Nitrog                                |  | mg / NM³    | IS 11255 (Part-7)             | Not Specified  | 41.8                                    |  |  |

SHIBESHW AR PRASAD Date: 2023.01.19

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager



Shreyasee Prasad

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#### TEST REPORT

|     | Name and address of the Customer                                   | M/s MAJHAULI<br>P.O.: Majhaul                                    | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |   |  |  |  |
|-----|--|--|---|---|--|--|--|
| [b] | Details of Sample  |  | Monitoring o  | f Stack Emission                                      |  |  |  |
| [c] | Sample Collected by  |  |   | OUSE on 10.01.23                                      |  |  |  |
| [d] | Sampling Location  |  | Premises of   | Sugar Mill  |  |  |  |
| [e] | Method of Sampling   |  | IS 5182 (Part   |   |  |  |  |
| [f] | Sampling Environmental Condition                                   |  | Temp. (°C)  | 13 Humidity   | (%) 75                                     |  |  |
| [g] | No. & Type of Container  |  | Thimble & Gla   |   |  |  |  |
| [h] | Instrument ID  |  | VSS 1PLS  |   |  |  |  |
| [i] | Sample Quantity  |  | 60 ml   |   |  |  |  |
| [j] | Sample Code  |  | ST-4346   |   |  |  |  |
| [k] | Sample Condition on Receipt  |  | Fit for Analysis  |   |  |  |  |
| [1] | Items required to be tested  |  | As per contrac  |   |  |  |  |
| [m] | Whether any specific Method of Test<br>been suggested by the party | has  | No  |   |  |  |  |
| [n] | Date of receiving the sample                                       |  | 11.01.23  | 11.01.23  |  |  |  |
| [0] | Analysis Start Date / Analysis Comp                                | letion Date  | 11.01.23 / 13.0   | 1.23  |  |  |  |
| 1-1 | Parameters   | Unit   | Method of Test  | Resu  | ılts                                       |  |  |
| 1.  | Type of Fuel   |  |   | Baga  | sse  |  |  |
| 2.  | Stack Connected to   | inner:   |   | Horse Shoe Type Bo<br>Steam generation ca             | oiler No. 10 having<br>pacity 40.0 T / hr. |  |  |
| 3.  | Stack No.  |  |   | 11  |  |  |  |
| 4.  | Height of Stack above ground level (as reported)                   | Meter  | 40.001  |   |  |  |  |
| 5.  | Dia of Stack at Top (as reported)                                  | Meter  |   | 2.55  |  |  |  |
| 6.  | Material of Constriction   |  |   | ID F  | T0811                                      |  |  |
| 7.  | Material of Construction   |  | ž -   | M.S   | 3.   |  |  |
| 8.  | Ambient Temperature  | °C   |   | 18.   | 0  |  |  |
| 9.  | Flue Gas Temperature   | °C   |   | 134   | 17-  |  |  |
| 10. | Velocity   | m/sec.   | IS 11255 (Part-3)   | 6.9   | A22  |  |  |
| 11. |  | NM³/hr.  |   | 9273  |  |  |  |
| 12. | Sampling Point   | Meter  |   | 19.00   |  |  |  |
|     | . •  |  |   | Limit as per E (P)<br>Rules Schedule I                | Concentration<br>( mg / NM³ )              |  |  |
| 13. | Particulate Matter (P.M.)  | mg / NM³   | IS 11255 (Part-1)   | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 44.3                                       |  |  |
|     |  | mg / NM³   | IS 11255 (Part-2)   | Not Specified   | 16.7                                       |  |  |
| 14. | Sulphur Dioxide (SO <sub>2</sub> )                                 | Oxides of Nitrogen (NO <sub>2</sub> ) $mg / NM^3$ IS $mg / NM^3$ |   |   | 41.8                                       |  |  |

**SHIBESHW** AR PRASAD Date: 2023.01.19 12:19:14 +05'30'

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Verified by: Technical Manager



Shreyasee Prasad

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#### TEST REPORT

| R   | ef. No. STH/TR/22-23/5347 Dt: 19.                | 01.2023       | Your Work Order   |   | Dt: 08.08.2022                            |  |  |  |
|-----|--|---------------|---|---|---|--|--|--|
| [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                              |               |   | OUSE on 10.01.23                                      |   |  |  |  |
| [d] | Sampling Location                                |               | Premises of   |   |   |  |  |  |
| [e] | Method of Sampling                               |               | IS 5182 (Part   |   |   |  |  |  |
| [f] | Sampling Environmental Condition                 | Temp. (°C)    | 13 Humidity   | (%) 75  |   |  |  |  |
| [g] | No. & Type of Container                          | Thimble & Gla |   |   |   |  |  |  |
| [b] | Instrument ID                                    |               | VSS 1PLS  | , ,   |   |  |  |  |
| [i] | Sample Quantity                                  |               | 60 ml   |   |   |  |  |  |
| [i] | Sample Code                                      |               | ST-5347   |   |   |  |  |  |
| [k] | Sample Condition on Receipt                      |               | Fit for Analysis  |   |   |  |  |  |
| [1] | Items required to be tested                      |               | As per contra   |   |   |  |  |  |
| [m] | Whether any specific Method of Test              | No            |   |   |   |  |  |  |
| - 1 | been suggested by the party                      |               | 11.01.23  |   |   |  |  |  |
| [n] | Date of receiving the sample                     | D.            | 11.01.23 / 13.0   | 1 22  |   |  |  |  |
| [0] | Analysis Start Date / Analysis Compl             | etion Date    | Method of   | 1.23  |   |  |  |  |
|     | Parameters                                       | Unit          | Test  | Rest  | ults                                      |  |  |  |
| 1.  | Type of Fuel                                     |               |   | Baga  |   |  |  |  |
| 2.  | Stack Connected to                               |               |   | Dumping Grate Type<br>Steam generation ca             | Boiler No. 11 having apacity 40.0 T / hr. |  |  |  |
| 3.  | Stack No.  |               | 22  | III   |   |  |  |  |
| 4.  | Height of Stack above ground level (as reported) | Meter         | ħ)  | 40.00 M.  |   |  |  |  |
| 5.  | Dia of Stack at Top (as reported)                | Meter         |   | 2.50  | M.  |  |  |  |
| 6.  | Material of Constriction                         |               | 17  | ID F  | an  |  |  |  |
| 7.  | Material of Construction                         |               |   | M.S   | S   |  |  |  |
| 8.  | Ambient Temperature                              | °C            |   | 18.   | 0   |  |  |  |
| 9.  | Flue Gas Temperature                             | °C            |   | 138   | .0  |  |  |  |
| 10. | Velocity   | m/sec.        | IS 11255 (Part-3)   | 7.1   | 1   |  |  |  |
| 11. | Volumetric Flow Rate                             | NM³/hr.       |   | 8995  | 5.7                                       |  |  |  |
| 12. | Sampling Point                                   | Meter         |   | 21.00   | ) M.                                      |  |  |  |
|     |  |               |   | Limit as per E (P)<br>Rules Schedule I                | Concentration                             |  |  |  |
| 13. | Particulate Matter (P.M.)                        | mg / NM³      | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> )   | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 44.4                                      |  |  |  |
| 14. | Sulphur Dioxide (SO <sub>2</sub> )               | mg / NM³      | Not Specified   | Not Specified   | 16.9                                      |  |  |  |
| 15. | Oxides of Nitrogen (NO <sub>2</sub> )            | mg / NM³      | Not Specified   | Not Specified   | 38.0                                      |  |  |  |

**SHIBESHW** AR PRASAD Date: 2023.01.19 12:19:26 +05'30'

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2023.01.19 12:22:33 +05'30'

Authorized Signatory Quality Manager

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Patna

800013

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#### TEST REPORT

| Ref.        | No. STH/TR/22-23/5348 Dt:  | 19.01.2023        | Your Work Order No. WP,  | /215/22 Dt: 08.08.2022                     |  |  |  |
|-------------|--|-------------------|--|--|--|--|--|
| [a]         | Name and address of the Custome  | er                | Executive Director<br>M/s MAJHAULIA SUGAR I<br>P.O.: Majhaulia<br>W.Champaran – 845 45 |  |  |  |  |
| [b]         | Sampling Environmental Cond  | ition             | Temp. (°C)   | 13 Humidity (%) 75                         |  |  |  |
| [c]         | Details of Sample  |                   | Monitoring of Ambient Noise Level within factory periphery                             |  |  |  |  |
| [d]         | Monitored by   |                   | SHIVA TEST HOUSE on  | 10.01.23                                   |  |  |  |
| [e]         | Items required to be tested  | *                 | As per request   |  |  |  |  |
| [f]         | f] Whether any specific Method of Test has been suggested by the party   |                   | No   |  |  |  |  |
|             |  |                   |  |  |  |  |  |
|             |  |                   | Time Weighted Ave  | rage (TWA) of Noise Level                  |  |  |  |
| S. N        | Monitoring Location  | Unit              | Time Weighted Aven<br>Day time (6:00 am to<br>10:00 pm)                                |  |  |  |  |
| <b>S. N</b> | Monitoring Location  Near Main Gate  | <i>Unit</i> dB(A) | Day time (6:00 am to   | Night time (10:00 pm t                     |  |  |  |
|             | Acceptation of all the Contract Contrac |                   | Day time (6:00 am to 10:00 pm)   | Night time (10:00 pm to 6:00 am)           |  |  |  |
| 1.          | Near Main Gate   | dB(A)             | Day time (6:00 am to 10:00 pm)   | Night time (10:00 pm to 6:00 am) 52.8      |  |  |  |
| 1.          | Near Main Gate Near Guest house  | dB(A)             | Day time (6:00 am to 10:00 pm) 64.8 58.8   | Night time (10:00 pm to 6:00 am) 52.8 48.6 |  |  |  |

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.

SHIBESHW Digitally signed by AR PRASAD Date: 2023.01.19

SHIBESHWAR PRASAD

Verified by: Technical Manager



Shreyasee Shreyasee Prasad Prasad

Digitally signed by Date: 2023.01.19 12:22:46 +05'30'

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# SPEED POST



# VA TEST HOUSE

(Serving since 1988)

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#### TEST REPORT

| Ref. | STH/TR/22-23/503 Dt: 19.01.2023                | Your Work Order No. WP/215/22 Dt: 08.08.2022  |
|------|--|---|
| [a]  | Name and address of the Customer               | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |
| [b]  | Details of Sample                              | Borewell Water Sample   |
| [c]  | Sample Collected by                            | SHIVA TEST HOUSE on 10.01.23  |
| [d]  | Sampling Location                              | Collected from Borewell Near Guest House  |
| [e]  | Method of Sampling                             | IS 3025, APHA   |
| [f]  | Sampling Environmental Condition               | Temp. (°C) 13 Humidity (%) 75   |
| [g]  | No. & Type of Container                        | Plastic Bottle (02)   |
| [h]  | Sample Quantity                                | 2 Litres  |
| [i]  | Sample Code                                    | BW-5334   |
| [i]  | Sample Condition on Receipt                    | Fit for Analysis  |
| [k]  | Items required to be tested                    | As per Contract   |
| [1]  | Date of receiving the sample                   | 11.01.23  |
| [m]  | Analysis Start Date / Analysis Completion Date | 11.01.23 / 13.01.23   |
|      |  | Limit as per IS 10500: 2012   |

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

Distiller

SHIBESHW AR PRASAD Date: 2023.01.19

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager



Shreyasee Prasad

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

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#### TEST REPORT

| R    | ef. No. STH/TR/22-23/4825  | Dt: 07.01   | 2023   |  | rk Order No. W                | /P/215/22 Dt:  | 08.08.2022 |  |  |
|------|--|-------------|--------|--|-------------------------------|--|------------|--|--|
| [a]  | Name and address of the Cu   | ustomer     |        | P.O.: Majh   | ULIA SUGAR IN                 | NDUSTRIES PVT. L   | rD.        |  |  |
| [b]  | Details of Sample  |             |        | Borewell Water Sample  |                               |  |            |  |  |
| [c]  | Sample Collected by  |             |        | SHIVA TEST HOUSE on 21.12.22   |                               |  |            |  |  |
| [d]  | Sampling Location  |             |        | Collected fr   | o <mark>m Bore</mark> well Ne | ar ETP   |            |  |  |
| [e]  | Method of Sampling   |             |        | IS 3025, Al  | PHA                           |  |            |  |  |
| [f]  | Sampling Environmental Co  | ndition     |        | Temp. (°C)   |                               | 24 Humidi  | ty (%) 7   |  |  |
| [g]  | No. & Type of Container  |             |        | Plastic Bott   | tle (02)                      |  |            |  |  |
| [h]  | Sample Quantity  | 2 Litres    |        |  |                               |  |            |  |  |
| [i]  | Sample Code  | BW-4825     |        |  |                               |  |            |  |  |
| [i]  | Sample Condition on Receip   | ot          |        | Fit for Anal   |                               |  |            |  |  |
| [k]  | Items required to be tested  |             |        | As per Con   | tract                         |  |            |  |  |
| [1]  | Date of receiving the sample   |             |        | 22.12.22   |                               |  |            |  |  |
| [m]  | Analysis Start Date / Analysi  | s Completio | n Date | 22.12.22 /   |                               | 10 10500 0010  | 1          |  |  |
| S.N. | Parameters   | Unit        | Meth   | od of Test   | Acceptable<br>Limit           | Permissible Limit in<br>the absence of<br>alternative source | Results    |  |  |
| 1    | Colour   | Hazen       | IS 302 | 25 (Part-4)  | 5                             | 15   | <5.0       |  |  |
| 2    | Odour  |             | IS 30  | 25 (Part-5)  | Agreeable                     | Agreeable  | Agreeable  |  |  |
| 3    | Taste  |             | IS 302 | 5 (Part-7))  | Agreeable                     | Agreeable  | Agreeable  |  |  |
| 4    | pH   |             | IS 302 | 5 (Part-11)  | 6.5 to 8.5                    | No relaxation  | 7.45       |  |  |
| 5    | Turbidity  | NTU         | IS 302 | 5 (Part-10)  | 1.0                           | 5.0  | 1.1        |  |  |
| 6    | Total Dissolved Solids (TDS)   | mg/l.       | IS 302 | 5 (Part-16)  | 500.0                         | 2000.0   | 268.0      |  |  |
| 7    | Total Hardness as CaCO <sub>3</sub>  | mg/l.       | IS 302 | 5 (Part-21)  | 200.0                         | 600.0  | 186.0      |  |  |
| 8    | Calcium as Ca  | mg/l.       | IS 302 | 5 (Part-40)  | 75.0                          | 200.0  | 43.3       |  |  |
| 9    | Magnesium as Mg  | mg/l.       | IS 302 | 5 (Part-46)  | 30.0                          | 100.0  | 19.0       |  |  |
| 10   | Iron as Fe   | mg/l.       | IS 302 | 5 (Part-53)  | 1.0                           | No relaxation  | 0.24       |  |  |
| 11   | Residual Free Chlorine   | mg/l.       | IS 302 | 5 (Part-26)  | 0.2                           | 1  | <0.01      |  |  |
| 12   | Total Alkalinity as CaCO <sub>3</sub>  | mg/l.       |        | 5 (Part-23)  | 200.0                         | 600.0  | 216.0      |  |  |
| 13   | Chloride as CI   | mg/l.       |        | 5 (Part-32)  | 250.0                         | 1000.0   | 12.0       |  |  |
| 14   | Sulphate as SO <sub>4</sub>  | mg/l.       |        | 5 (Part-24)  | 200.0                         | 400.0  | 16.2       |  |  |
| 15   | Nitrate as NO <sub>3</sub>   | mg/l.       |        | 5 (Part-34)  | 45.0                          | No relaxation  | 1.36       |  |  |
|      | THE STATE OF THE S | 3           |        | and the second s |                               |  |            |  |  |

SHIBESHW Digitally signed by SHIBESHWAR PRASAD Date: 2023.01.09 17:12:16 +05'30'

Verified by: Technical Manager



Shreyasee Digitally signed by Shreyasee Prasad Prasad

Date: 2023.01.09 17:16:21 +05'30'

Authorized Signatory Quality Manager

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## TEST REPORT

| Ref. N | o. STH/TR/22-23/4825                        | 5(MCB)       | Dt: 07.01.2023 | Your Work Or  | der No. WP/2   | 15/22 Dt: 08. | 08.2022  |  |
|--------|---|--------------|----------------|---|----------------|---------------|----------|--|
| [a] Na | ame and address of t                        | he Custome   | er             | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                |               |          |  |
| [b] D  | etails of Sample                            |              |                | Borewell Water  | Sample         |               |          |  |
| [c] Sa | Sample Collected by                         |              |                | Shiva Test Ho   | use on 21.12.  | 22            |          |  |
| [d] Sa | ampling Location                            |              |                | Collected from B  | orewell Near E | TP            |          |  |
| [e] M  | lethod of Sampling                          |              | 2              | IS 1622   |                |               |          |  |
| [f] S  | ampling Environment                         | al Condition | 1              | Temp (°c)   | 24             | Humidity (%)  | 72       |  |
| [g] N  | No. & Type of Contain                       | er           |                | One Sterilized Glass Bottle   |                |               |          |  |
| 100    | ample Quantity                              |              |                | 250 ml  |                |               |          |  |
| [i] S  | ample Code                                  |              |                | BW-4825   |                |               |          |  |
|        | ample Condition on F                        | Receipt      |                | Fit for analysis  | 3              |               |          |  |
|        | ems required to be te                       | sted         |                | As per contrac  | ot             |               |          |  |
| [I] V  | Vhether any specific Nuggested by the custo | Method of T  | est has been   | No  |                |               |          |  |
|        | Date of receiving the s                     |              | aboratory      | 22.12.22  |                |               |          |  |
| [n] A  | Analysis Start Date / A                     | nalysis Cor  | mpletion Date  | 22.12.22 / 23.  | 12.22          |               |          |  |
| S.N    |   | Unit         | Method of Test | Limit as pe   | 12             | Result        | S        |  |
| 1      | Total Coliform                              | / 100 ml     | IS 1622:1981   | Shall not be del  |                | Not Detected  | / 100 ml |  |



Section In-Charge (Microbiology)

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# TEST REPORT

|                             | o. STH/TR/22-23/4826 ne and address of the Custon      | ner           |              | M/s MA   |                    | NDUSTRIES PVT. L | TD.    |  |
|-----------------------------|--|---------------|--------------|--|--------------------|------------------|--------|--|
| aj Nan                      | ne and address of the oddion                           |               |              | P.O.: Majhaulia<br>W.Champaran – 845 454   |                    |                  |        |  |
| h1 Dot                      | ails of Sample   |               |              | Surfac   | e Water Sample     | 04.40.00         |        |  |
|                             | nple Collected by                                      |               |              | SHIVA  | TEST HOUSE on      | 21.12.22         |        |  |
| d) San                      | npling Location  |               |              | Collec   | ted from Upstrea   | m of River Kohra |        |  |
| 1 Met                       | thod of Sampling                                       |               |              |  | 6, APHA<br>(°C) 24 | Humidity (%)     | 72     |  |
| Cor                         | poling Environmental Condition                         | on            | 2 1 1 1      | Temp.  | Bottle (02)        | 1.000            |        |  |
| al Det                      | ails of Sample Container (No                           | & Type of     | Container)   | 2 Litres   |                    |                  |        |  |
| n] Sar                      | mple Quantity  | 2             | SW-48        |  |                    |                  |        |  |
| Sample Code                 |  |               |              |  | Analysis           |                  |        |  |
| Sample Condition on Receipt |  |               |              |  | contract.          |                  |        |  |
| I] Wh                       | ms required to be tested nether any specific Method of | Test has be   | en suggested | No   |                    |                  |        |  |
| by                          | the customer<br>te of receiving the sample in I        | aboratory     |              | 22.12.22   |                    |                  |        |  |
| m] Da                       | alysis Start Date / Analysis C                         | ompletion D   | ate          |  | 22 / 25.12.22      |                  |        |  |
| S.                          | Parameters   | Unit Method o |              | f Test   Tolerance Limi<br>2296-1  |                    | 982              | Result |  |
| No.                         |  |               |              |  | For Class<br>'A'*  | For Class 'C'++  |        |  |
|                             | -11  |               | IS 3025 (Pa  | irt-11)  | 6.5 - 8.5          | 6.5 - 8.5        | 7.71   |  |
| 1.                          | pH Total Suspended Solids                              | mg/l.         | IS 3025(Pa   |  | Not Specified      | Not Specified    | 71.0   |  |
| 2.                          | Total Dissolved Solids                                 | mg/l.         | IS 3025 (Pa  |  | 500                | 1500             | 285.0  |  |
| 3.                          | B.O.D. (3 days at 27°C)                                | mg/l.         | IS 3025 (Pa  | art-44)  | 2.0                | 3.0              | 1.5    |  |
| 4.                          | C.O.D.   | mg/l.         | APHA (52)    | and the same of th | Not Specified      | Not Specified    | 20.0   |  |
| 5.                          | Chloride as CI   | mg/l.         | IS 3025 (Pa  | art-32)  | 250.0              | 600.0            | 13.0   |  |
|                             |  | mg/l.         | IS 3025 (Pa  |  | 6.0                | 4.0              | 7.5    |  |
| 6.<br>7.                    | Dissolved Oxygen                                       |               |              |  |                    |                  |        |  |

SHIBESHW Digitally signed by SHIBESHWAR PRASAD AR PRASAD Date: 2023.01.09

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Prasad

Shreyasee Digitally signed by Shreyasee Prasad Date: 2023.01.09 17:16:33 +05'30'

Authorized Signatory Quality Manager

- END OF TEST REPORT

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# TEST REPORT

| a] Nar   | me and address of the Custon   | mer  | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |  |  |   |                                      |  |  |
|--|--|--|---|--|--|---|--------------------------------------|--|--|
| b] Det   | tails of Sample  |  |   | Surfac   | e Water Sample   | 04.40.00  |                                      |  |  |
|  | mple Collected by  |  |   | SHIVA  | TEST HOUSE or  | 21.12.22  | hra                                  |  |  |
|  | mpling Location  |  |   |  |  | ream of River Ko  | III a                                |  |  |
| el Me  | thod of Sampling   |  |   |  | 5, APHA<br>(°C) 24   | Humidity (%)  | 72                                   |  |  |
| fl Sai   | mpling Environmental Conditi   | on   |   | Temp.  | Bottle (02)  | Training (70)   | -                                    |  |  |
| g] Def   | tails of Sample Container (No  | 2 Litres                                       |   |  |  |   |                                      |  |  |
|  | mple Quantity  | SW-48  |   |  |  |   |                                      |  |  |
| Sample Code  |  |  |   |  | Analysis   |   |                                      |  |  |
| d.d.   | mple Condition on Receipt  | As per contract.                               |   |  |  |   |                                      |  |  |
| k  Items required to be tested<br> I  Whether any specific Method of Test has been suggested |  |  |   |  | No   |   |                                      |  |  |
| il AAI   | the customer   |  |   | 140  |  |   |                                      |  |  |
| by   | the customer   |  |   | 22.12.   |  |   |                                      |  |  |
| by<br>[m] Da   | the customer the sample in   | Laboratory                                     |   | 22.12.   | 22 / 25.12.22  |   | A1                                   |  |  |
| by<br>[m] Da<br>[n] An<br>S.   | the customer   | Laboratory                                     |   | 22.12.   |  | 982   | Resul                                |  |  |
| by<br>[m] Da<br>[n] An   | the customer<br>ate of receiving the sample in<br>alysis Start Date / Analysis C   | Laboratory<br>ompletion [                      | Date  | 22.12.   | 22 / 25.12.22<br>Tolerance Limi  | it as per IS<br>982<br>For Class 'C*++                                | Resul                                |  |  |
| by<br>[m] Da<br>[n] An<br>S.<br>No.  | the customer ate of receiving the sample in alysis Start Date / Analysis C  Parameters   | Laboratory<br>ompletion [                      | Date  | 22.12.<br>22.12.<br>f Test   | 22 / 25.12.22<br>Tolerance Limi<br>2296-1  | 982   |                                      |  |  |
| by<br>[m] Da<br>[n] An<br>S.<br>No.  | the customer ate of receiving the sample in alysis Start Date / Analysis C  Parameters  pH   | Laboratory<br>ompletion I<br>Unit              | Date<br>Method o  | 22.12.<br>22.12.<br>f Test   | 22 / 25.12.22<br>Tolerance Limi<br>2296-1<br>For Class 'A"                                 | 982<br>For Class 'C'**  | 7.65                                 |  |  |
| by<br>[m] Da<br>[n] An<br>S.<br>No.  | the customer ate of receiving the sample in alysis Start Date / Analysis C Parameters  pH  Total Suspended Solids  | Laboratory<br>ompletion I<br>Unit              | Method o  | 22.12.<br>22.12.<br>f Test<br>rt-11)                               | 22 / 25.12.22<br>Tolerance Limi<br>2296-1<br>For Class 'A"<br>6.5 - 8.5                    | 982<br>For Class 'C'++<br>6.5 - 8.5                                   | 7.65<br>81.0<br>294.0                |  |  |
| by<br>[m] Da<br>[n] An<br>S.<br>No.  | p the customer ate of receiving the sample in alysis Start Date / Analysis C Parameters  pH  Total Suspended Solids  Total Dissolved Solids                          | Laboratory ompletion I Unit mg/l.              | Method o IS 3025 (Pa  | 22.12.<br>22.12.<br>f Test<br>rt-11)<br>rt-17)                     | 22 / 25.12.22  Tolerance Limi 2296-1  For Class 'A**  6.5 - 8.5  Not Specified             | 982 For Class 'C'*+ 6.5 - 8.5 Not Specified                           | 7.65<br>81.0<br>294.0                |  |  |
| by<br>[m] Da<br>[n] An<br>S.<br>No.<br>1.<br>2.<br>3.<br>4.                                  | p the customer ate of receiving the sample in alysis Start Date / Analysis C Parameters  pH  Total Suspended Solids  Total Dissolved Solids  B.O.D. (3 days at 27°C) | Laboratory ompletion I Unit  mg/l. mg/l.       | IS 3025 (Pa<br>IS 3025 (Pa<br>IS 3025 (Pa   | 22.12.<br>22.12.<br>f Test<br>rt-11)<br>rt-17)<br>rt-16)           | 22 / 25.12.22  Tolerance Limitation 2296-1  For Class 'A"  6.5 - 8.5  Not Specified  500.0 | 982<br>For Class 'C'**<br>6.5 – 8.5<br>Not Specified<br>1500.0        | 7.65<br>81.0<br>294.0<br>1.9<br>28.0 |  |  |
| by<br>[m] Da<br>[n] An<br>S.<br>No.  | p the customer ate of receiving the sample in alysis Start Date / Analysis C Parameters  pH  Total Suspended Solids  Total Dissolved Solids                          | Laboratory ompletion I Unit  mg/l. mg/l. mg/l. | IS 3025 (Pa<br>IS 3025 (Pa<br>IS 3025 (Pa<br>IS 3025 (Pa  | 22.12.<br>22.12.<br>f Test<br>rt-11)<br>rt-17)<br>rt-16)<br>rt-44) | 22 / 25.12.22  Tolerance Limit   | 982<br>For Class 'C'*+<br>6.5 – 8.5<br>Not Specified<br>1500.0<br>3.0 | 7.65<br>81.0<br>294.0                |  |  |

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#### TEST REPORT

| Ref.     | No. STH/TR/22-23/4828 Dt: 0                         | 7.01.2023 You         | Work Order No. WP/215/  | 22 Dt: 08.08.2022  |  |  |  |
|----------|---|-----------------------|---|--------------------|--|--|--|
| [a]      | Name and address of the Custome                     | r                     | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                    |  |  |  |
| [b]      | Details of Sample                                   |                       | Untreated Effluent San  | nple               |  |  |  |
| [c]      | Sample Collected by                                 |                       | SHIVA TEST HOUSE or   | n 21.12.22         |  |  |  |
| [d]      | Sampling Location                                   |                       | Collected from Inlet of ET  | TP                 |  |  |  |
| [e]      | Method of Sampling                                  |                       | IS 3025, APHA   | 24 Humidity (%) 7/ |  |  |  |
| [f]      | Sampling Environmental Condition                    |                       | Temp. (°C) 24 Humidity (%)  |                    |  |  |  |
| [g]      | Details of Sample Container (No. &                  | Type of Container     | Plastic Bottle  |                    |  |  |  |
| [h]      | Sample Quantity                                     |                       | 2 Litres  |                    |  |  |  |
| [i]      | Sample Code   |                       | E-4828  |                    |  |  |  |
| [i]      | Sample Condition on Receipt                         |                       | Fit for Analysis  |                    |  |  |  |
| [k]      | Items required to be tested                         |                       | As per Contract   |                    |  |  |  |
| [1]      | Whether any specific Method of Tell by the customer | st has been suggested | No  |                    |  |  |  |
| [m]      | Date of receiving the sample                        |                       | 22.12.22  |                    |  |  |  |
| [n]      | Analysis Start Date / Analysis Com                  | pletion Date          | 22.12.22 / 25.12.22   |                    |  |  |  |
| S.<br>N. | Parameters  | Unit                  | Method of Test  | Result             |  |  |  |
| 1        | pН  |                       | IS 3025 (Part-11)   | 8.57               |  |  |  |
| 2        | Suspended Solids                                    | mg/l.                 | IS 3025(Part-17)  | 310.0              |  |  |  |
| 3        | Oil & Grease  | mg/l.                 | IS 3025 (Part-39)   | 5.3                |  |  |  |
| 4        | B.O.D. (3 days at 27°C)                             | mg/l.                 | IS 3025 (Part-44)   | 320.0              |  |  |  |
| 5        | C.O.D.  | mg/l.                 | APHA 5220 B   | 1056.0             |  |  |  |
| 6        | Dissolved Phosphate as P                            | mg/l.                 | APHA (4500-P-D)   | 4.3                |  |  |  |
| 7        | Ammonical Nitrogen as N                             | mg/l.                 | IS 3025 (Part-34)   | 25.8               |  |  |  |
| 3        | Total Kjeldahl Nitrogen as N                        | mg/l.                 | APHA (4500 N org)   | 47.0               |  |  |  |
|          |   |                       | IS 3025(Part-16   | 2232.0             |  |  |  |

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Quality Manager

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#### TEST REPORT

|                  | Ref. No. STH/TR/22-23/4829                              | Dt: 07.01.202           | 3                 | Your Work Order   | 140. 141/215/22 211                     | 08.08.2022                                     |  |  |
|------------------|---|-------------------------|-------------------|---|---|--|--|--|
| [a] I            | Name and address of the Customer                        |                         |                   | Executive Director M/s MAJĤAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |   |  |  |  |
| [b]              | Details of Sample                                       |                         |                   | Treated Effluen   | t sample                                |  |  |  |
| [C]              | Sample Collected by                                     |                         |                   |   | OUSE on 21.12.22                        |  |  |  |
|                  | Sampling Location                                       |                         |                   | Collected from  |   |  |  |  |
| [e]              | Method of Sampling                                      |                         |                   | IS 3025, APHA   | 24 Humidity (%)                         | 72   |  |  |
| [f]              | Sampling Environmental Condition                        | (0 1-                   | >                 | Temp. (°C) Plastic Bottle (   | 1                                       | 12   |  |  |
|                  | Details of Sample Container (No. & T                    | ype of Contain          | ner)              | 2 Litres  | 02)                                     |  |  |  |
| _                | Sample Quantity   |                         | F-4829            |   |   |  |  |  |
| [i]              | Sample Code   |                         | Fit for Analysis  |   |   |  |  |  |
|                  | Sample Condition on Receipt Items required to be tested |                         |                   | As per contrac  | t                                       |  |  |  |
| [1]              | Whether any specific Method of Test by the customer     | has been sug            | gested            | No  |   |  |  |  |
| [m]              | Date of receiving the sample in Labor                   | atory                   |                   | 22.12.22  |   |  |  |  |
| [n]              | Analysis Start Date / Analysis Comple                   | etion Date              |                   | 22.12.22 / 25.12.22  Method of Test   Limit as per E   Resu                                       |   |  |  |  |
| S.<br>N.         | Parameters  | Unit                    | M                 | ethod of Test   | Limit as per E<br>(P) Rules Schedule VI |  |  |  |
| 1                | рН  |                         | IS 30             | 25 (Part-11)  | 5.5 to 8.5                              | 7.54   |  |  |
| 2                | Suspended Solids  | mg/l.                   | IS 30             | 025(Part-17)  | 100.0                                   | 52.0   |  |  |
| 4                | Oil & Grease  | mg/l.                   | IS 3025 (Part-39) |   | 10.00                                   | 1.7  |  |  |
| 3                | Oll & Grease  |                         | IS 3025 (Part-44) |   |   |  |  |  |
|                  |   | mg/l.                   | -                 |   | 100.00                                  |  |  |  |
| 3                | B.O.D.(3 days at 27°C) C.O.D.                           |                         | IS 30             |   | Not Specified                           | 112.0  |  |  |
| 3                | B.O.D.(3 days at 27°C)<br>C.O.D.                        | mg/l.                   | IS 30             | )25 (Part-44)   |   | 112.0  |  |  |
| 3<br>4<br>5<br>6 | B.O.D.(3 days at 27°C) C.O.D. Dissolved Phosphate as P  | mg/l.                   | IS 30             | )25 (Part-44)<br>HA 5220 B  | Not Specified                           | 112.0<br>1.22<br>13.4                          |  |  |
| 3 4 5            | B.O.D.(3 days at 27°C)<br>C.O.D.                        | mg/l.<br>mg/l.<br>mg/l. | APHA<br>IS 30     | D25 (Part-44)<br>HA 5220 B<br>A ( 4500-P-D )  | Not Specified<br>Not Specified          | 22.0<br>112.0<br>1.22<br>13.4<br>21.8<br>726.0 |  |  |

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#### TEST REPORT

| Ref        | f. No. STH/TR/22-23/4830 Dt: 07.01.202.                             | 3              | 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.: Majhaulia W.Champaran – 845 454 |            |              |        |  |
| [b]        | Details of Sample   | Treated Efflue | nt sample   |            |              |        |  |
| [c]        | Sample Collected by   | SHIVA TEST     | HOUSE or  | n 21.12.22 |              |        |  |
| [d]        | Sampling Location   | From Aeration  | Tank  |            |              |        |  |
| [e]        | Method of Sampling  | IS 3025, APH   | A   |            |              |        |  |
| [f]        | Sampling Environmental Condition                                    |                | Temp. (°C)  | 24         | Humidity (%) | 64     |  |
| [g]        | No. & Type of Container   | Plastic Bottle |   |            |              |        |  |
| [h]        | Sample Quantity   |                | 2 Litres  |            |              |        |  |
| [i]        | Sample Code   |                | E-4830  |            |              |        |  |
| [j]        | Sample Condition on Receipt   |                | Fit for Analysis  |            |              |        |  |
| [k]        | Items required to be tested   |                | As per contract   |            |              |        |  |
| [1]        | Whether any specific Method of Test has been suggested by the party |                | No  |            |              |        |  |
| [m]        | Date of receiving the sample in Laboratory                          |                | 22.12.22  |            |              |        |  |
| [n]        | Analysis Start Date / Analysis Completion I                         | Date           | 22.12.22 / 24.  | 12.22      |              |        |  |
| SI.<br>No. | Parameters  | Unit           | Me  | thod of Te | est          | Result |  |
| 1.         | Mixed Liquor Suspended Solids (MLSS)                                | , man          | A green see   |            | 121/1347     | 2440.0 |  |
| 2.         | Mixed Liquor Volatile Suspended Solids (MLVSS)                      | mg/l           | IS 3025 (Part-24)   |            | 24)          | 2150.0 |  |

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| [a]      | Name and address of the Customer                        | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia |                  |                                |   |        |  |  |
|----------|---|---|------------------|--------------------------------|---|--------|--|--|
| [b]      | Details of Sample                                       |   |                  | W.Champaran -<br>Lagoon Sample | - 845 454                               |        |  |  |
|          | Sample Collected by                                     |   | OUSE on 21.12.22 |                                |   |        |  |  |
|          | Sampling Location                                       | Collected from Pe   |                  |                                |   |        |  |  |
|          | Method of Sampling                                      | IS 3025, APHA   |                  |                                |   |        |  |  |
|          | Sampling Environmental Condition                        |   |                  | Temp. (°C)                     | 24 Humidity (%)                         | 72     |  |  |
| [g]      | Details of Sample Container (No. & Typ                  | oe of Container   | r)               | Plastic Bottle (02             | 2)                                      |        |  |  |
| [h]      | Sample Quantity   | 2 Litres  |                  |                                |   |        |  |  |
|          | Sample Code   | E-4831  |                  |                                |   |        |  |  |
| M4       | Sample Condition on Receipt                             | Fit for Analysis  |                  |                                |   |        |  |  |
|          | Items required to be tested                             | As per contract   |                  |                                |   |        |  |  |
|          | Whether any specific Method of Test had be the customer | No  |                  |                                |   |        |  |  |
| [m]      | Date of receiving the sample in Labora                  | tory  |                  | 22.12.22                       |   |        |  |  |
| [n]      | Analysis Start Date / Analysis Completi                 | ion Date  |                  | 22.12.22 / 25.12.22            |   |        |  |  |
| S.<br>N. | Parameters  | Unit  | Me               | ethod of Test                  | Limit as per E (P)<br>Rules Schedule VI | Result |  |  |
| 1        | рН  |   | IS               | 3025 (Part-11)                 | 5.5 to 8.5                              | 7.31   |  |  |
| 2        | Suspended Solids  | mg/l.   | IS               | 3025(Part-17)                  | 100.0                                   | 68.0   |  |  |
| 3        | Oil & Grease  | mg/l.   | IS               | 3025 (Part-39)                 | 10.00                                   | 1.2    |  |  |
| 4        | B.O.D.(3 days at 27°C)                                  | mg/l.   | IS               | 3025 (Part-44)                 | 100.00                                  | 24.0   |  |  |
| 5        | C.O.D.  | mg/l.   | A                | PHA 5220 B                     | Not Specified                           | 132.0  |  |  |
| 6        | Dissolved Phosphate as P                                | mg/l.   |                  | APHA<br>( 4500-P-D )           | Not Specified                           | 1.08   |  |  |
| 7        | Ammonical Nitrogen as N                                 | mg/l.   | IS               | 3025 (Part-34)                 | Not Specified                           | 9.5    |  |  |
| 8        | Total Kjeldahl Nitrogen as N                            | mg/l.   | API              | HA (4500 N org)                | Not Specified                           | 12.9   |  |  |
| 9        | Total Dissolved Solids                                  | mg/l.   | 19               | 3025(Part-16)                  | 2100.00                                 | 384.0  |  |  |

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#### TEST REPORT

| Ref. No. STH/TR/22-2                    | 3/4832-48.                              | 35 Dt: 07.                                    | .01.2023      | Your Work Order No. WP/215/22 Dt: 08.08.2022  |                                    |                           |                                      |  |  |
|---|---|---|---------------|---|------------------------------------|---------------------------|--------------------------------------|--|--|
| [a] Name and address of th              | e Custome                               | er  |               | Executive-Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                                    |                           |                                      |  |  |
| Ihl Details of Sample                   | b] Details of Sample                    |   |               |   |                                    | /                         |                                      |  |  |
|   | c] Sample Collected by                  |   |               |   |                                    | 22                        |                                      |  |  |
| [d] Sampling Location                   |   | Premises of Su                                |               |   |                                    |                           |                                      |  |  |
| [e] Method of Sampling                  |   |   |               | IS 5182 (Part - 14  |                                    |                           |                                      |  |  |
|   | .n                                      |   | Temp. (°C)    |   | lumidity (%)                       | 72                        |                                      |  |  |
|   |   |   |               | Filter Paper; Glas  |                                    | armany (117)              |                                      |  |  |
|   | & Type of Contain                       | RDS-1, RDS-2, F                               |               | EPM-1 EPM-2 I   | FPM-3 FPM-4                        |                           |                                      |  |  |
| [h] Instrument ID                       |   |   |               | in twi-t, in twi-2,   | 7.00 0, 11.00                      |                           |                                      |  |  |
| [i] Sample Quantity                     |   | 30 ml x 24 (for ea                            | ach NO2, SO2) |   |                                    |                           |                                      |  |  |
| [j] Sample Condition on F               |   | Fit for Analysis                              |               |   |                                    |                           |                                      |  |  |
| [k] Items required to be te             |   | As per contract                               |               |   |                                    |                           |                                      |  |  |
| [I] Whether any specific N<br>customer  | Test has been sug                       | No  |               |   |                                    |                           |                                      |  |  |
| [m] Date of receiving the s             | ample in L                              | aboratory                                     |               | 22.12.22  |                                    |                           |                                      |  |  |
| [n] Analysis Start Date / A             |   |   |               | 22.12.22 / 24.12.22   |                                    |                           |                                      |  |  |
| ing randifold dear Date .               | , |   | Limit as pe   | Sampling Station / Result   |                                    |                           |                                      |  |  |
| Parameters                              | Unit                                    | Method of                                     |               | Near Main<br>Gate<br>(SC_A-4832)  | Near Guest<br>House<br>(SC_A-4833) | Near Store<br>(SC_A-4834) | Near Cooling<br>Tower (SC_)<br>4835) |  |  |
|   |   | 10 5400                                       |               | 82.0  | 80.8                               | 86.6                      | 82.9                                 |  |  |
| Particulate Matter (PM <sub>10</sub> )  | μg / m³                                 | IS 5182                                       | 100           | 69.8  | 66.0                               | 66.0                      | 64.9                                 |  |  |
| 1 2111221212 11121121 (1 11112)         | 73.                                     | (Part-23)                                     |               | 77.7  | 73.3                               | 79.5                      | 77.3                                 |  |  |
|   |   | 0.000.000.000.000.000.000.000.000.000.000.000 |               | 46.7  | 40.3                               | 44.9                      | 43.5                                 |  |  |
| Particulate Matter (PM <sub>2.5</sub> ) | $\mu g / m^3$                           | CPCB GMAAP                                    | 60            | 34.4  | 31.5                               | 29.9                      | 34.8                                 |  |  |
|   |   |   |               | 39.3  | 37.8<br>25.8                       | 38.6<br>14.8              | 15.6                                 |  |  |
|   |   |   |               | 17.7  | 11.2                               | 9.1                       | 10.6                                 |  |  |
|   |   | IS 5182                                       |               | 11.7<br>9.4   | 18.9                               | 13.8                      | 15.6                                 |  |  |
| Sulphur Dioxide as SO <sub>2</sub>      | $\mu g / m^3$                           |   | 80            | 9.6   | 8.1                                | 10.1                      | 8.5                                  |  |  |
|   |   | (Part-2)                                      |               | 13.5  | 12.9                               | 7.9                       | 19.8                                 |  |  |
|   |   |   |               | 14.9  | 8.1                                | 9.1                       | 11.7                                 |  |  |
|   |   |   |               | 41.1  | 31.0                               | 39.5                      | 41.8                                 |  |  |
|   |   |   |               | 39.1  | 29.6                               | 41.1                      | 38.3                                 |  |  |
| No Bisside as NO.                       | 1 - 2                                   | IS 5182                                       | 80            | 26.2  | 30.4                               | 26.8                      | 31.2                                 |  |  |
| Nitrogen Dioxide as NO <sub>2</sub>     | μg / m³                                 | (Part-6)                                      | .00           | 25.3  | 41.3                               | 26.7                      | 31.1                                 |  |  |
|   |   |   |               | 29.0  | 33.1                               | 29.1                      | 28.3                                 |  |  |
|   |   |   |               | 34.0  | 34.5                               | 24.0                      | 33.3                                 |  |  |
| Average Value                           |   |   |               | 70.5  | 72.4                               | 77.4                      | 75.1                                 |  |  |
| PM <sub>10</sub>                        | $\mu g / m^3$                           |   |               | 76.5  | 73.4                               | 77.4                      | Coverage Co.                         |  |  |
| PM <sub>2,5</sub>                       | μg / m <sup>3</sup>                     | 3   |               | 40.1  | 36.5                               | 37.8                      | 39.4                                 |  |  |
| SO <sub>2</sub>                         | μg / m <sup>3</sup>                     | 1   |               | 12.8  | 14.2                               | 10.8                      | 13.7                                 |  |  |
| NO                                      | - / 3                                   | 2   |               | 32 4  | 33.3                               | 31.2                      | 34.0                                 |  |  |

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NO<sub>2</sub>



Shreyasee Digitally signed by Shreyasee Prasad

33.3

Date: 2023.01.09 Prasad 17:18:02 +05'30'

31.2

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μg / m³

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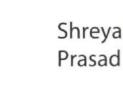
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### TEST REPORT

|     | Ref. No. STH/TR/22-23/4836 Dt: 6                                  | 7.01.2023                   | Your Work Order   | No. WP/215/22 I                                       | Ot: 08.08.2022                            |  |  |
|-----|---|-----------------------------|---|---|---|--|--|
| [a] | Name and address of the Customer                                  | M/s MAJHAUL<br>P.O.: Majhau | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |   |   |  |  |
| [b] | Details of Sample   |                             | Monitoring of   | of Stack Emission                                     |   |  |  |
| [c] | Sample Collected by   |                             |   | OUSE on 21.12.22                                      |   |  |  |
| [d] | Sampling Location   |                             | Premises of   | Sugar Mill  |   |  |  |
| [e] | Method of Sampling  |                             | IS 5182 (Part   | 0   |   |  |  |
| [f] | Sampling Environmental Condition                                  |                             | Temp. (°C)  | 24 Humidity   | (%) 72                                    |  |  |
| [g] | No. & Type of Container   | *                           | Thimble & Gla   |   |   |  |  |
| [h] | Instrument ID   |                             | VSS 1PLS  | ,               |   |  |  |
| [i] | Sample Quantity   | 60 ml                       |   |   |   |  |  |
| [j] | Sample Code   | ST-4836                     |   |   |   |  |  |
| [k] | Sample Condition on Receipt                                       | Fit for Analysis            | 7   |   |   |  |  |
| [1] | Items required to be tested                                       | As per contrac              |   |   |   |  |  |
| [m] | Whether any specific Method of Tes<br>been suggested by the party | No                          |   |   |   |  |  |
| [n] | Date of receiving the sample                                      |                             | 22.12.22  |   |   |  |  |
| [0] | Analysis Start Date / Analysis Comp                               | letion Date                 | 22.12.22 / 24.  | 22.12.22 / 24.12.22                                   |   |  |  |
|     | Parameters  | Unit                        | Method of Test  | Results   |   |  |  |
| 1.  | Type of Fuel  |                             |   | Baga  |   |  |  |
| 2.  | Stack Connected to  |                             |   | Dumping Grate Boiler generation capa                  |   |  |  |
| 3.  | Stack No.   |                             |   | 1   |   |  |  |
| 4.  | Height of Stack above ground level (as reported)                  | Meter                       | 18  | 30.00   | ) M.                                      |  |  |
| 5.  | Dia of Stack at Top (as reported)                                 | Meter                       |   | 1.55  | M.  |  |  |
| 6.  | Material of Constriction  |                             |   | ID F  | an  |  |  |
| 7.  | Material of Construction  | -                           |   | M.S   | S.  |  |  |
| 8.  | Ambient Temperature   | °C                          |   | 24.   | .0  |  |  |
| 9.  | Flue Gas Temperature  | °C                          |   | 128   |   |  |  |
| 10. | Velocity  | m/sec.                      | IS 11255 (Part-3)   | 7.0   | 6   |  |  |
| 11. | Volumetric Flow Rate  | NM³/hr.                     |   | 3837  |   |  |  |
| 12. | Sampling Point  | Meter                       |   | 11.00   | ) M.                                      |  |  |
|     |   |                             | 70  | Limit as per E (P)<br>Rules Schedule I                | Concentration<br>( mg / NM <sup>2</sup> ) |  |  |
| 13. | Particulate Matter (P.M.)   | mg / NM³                    | IS 11255 (Part-1)   | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 40.4                                      |  |  |
|     |   | / A/A/3                     | IS 11255 (Part-2)   | Not Specified   | 14.9                                      |  |  |
| 14. | Sulphur Dioxide (SO <sub>2</sub> )                                | mg / NM³                    | 15 11255 (Falt-2)   | Not specified   | 14.2                                      |  |  |

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#### TEST REPORT

|     | Ref. No. STH/TR/22-23/4837 Dt:                          | 07.01.2023           |  | Your Work Order No. WP/215/22 Dt: 08.08.2022  |                              |  |  |
|-----|---|----------------------|--|---|------------------------------|--|--|
| [a] | Name and address of the Customer                        |                      | M/s MAJHAUL<br>P.O.: Majhau  | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                              |  |  |
| [b] | Details of Sample                                       |                      | The state of the s | of Stack Emission   |                              |  |  |
| [c] | Sample Collected by                                     |                      |  | IOUSE on 21.12.22   |                              |  |  |
| [d] | Sampling Location                                       |                      | Premises of  |   |                              |  |  |
| [e] | Method of Sampling                                      |                      | IS 5182 (Part  |   |                              |  |  |
| [f] | Sampling Environmental Condition                        |                      | Temp. (°C)   | 24 Humidity   | (%) 72                       |  |  |
| [g] | No. & Type of Container                                 |                      | Thimble & Gla  | TERRITOR CHOROCOPPORTOR   | (/                           |  |  |
| [h] | Instrument ID   |                      | VSS 1PLS   | AND THE STREET STREET STREET  |                              |  |  |
| [i] | Sample Quantity   |                      | 60 ml  |   |                              |  |  |
| [j] | Sample Code   |                      | ST-4837  |   |                              |  |  |
| [k] | Sample Condition on Receipt                             | Fit for Analysis     |  |   |                              |  |  |
| [1] | Items required to be tested                             | As per contra        |  |   |                              |  |  |
| [m] |   | No                   |  |   |                              |  |  |
| [n] | Date of receiving the sample                            | 22.12.22             | 22.12.22   |   |                              |  |  |
| [0] | Analysis Start Date / Analysis Comp                     | letion Date          | 22.12.22 / 24.   | 12.22   |                              |  |  |
| -1  | Parameters  | Unit                 | Method of Test   | Res   | ults                         |  |  |
| 1.  | Type of Fuel  |                      |  | Baga  | isse                         |  |  |
| 2.  | Stack Connected to                                      | ****                 |  | Horse Shoe Type B<br>Steam generation ca  | oiler No. 10 having          |  |  |
| 3.  | Stack No.   |                      | 1  | ll ll   |                              |  |  |
| 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                                |                      | 1  | ID F  | an                           |  |  |
| 7.  | Material of Construction                                | ****                 | 1  | M.S   | S,                           |  |  |
| 8.  | Ambient Temperature                                     | °C                   | 1  | 24.   | 0                            |  |  |
| 9.  | Flue Gas Temperature                                    | °C                   |  | 130   | 0.0                          |  |  |
| 10. | Velocity  | m/sec.               | IS 11255 (Part-3)  | 7.1   | В                            |  |  |
| 11. | Volumetric Flow Rate                                    | NM <sup>3</sup> /hr. |  | 1053  | 09.6                         |  |  |
| 12. | Sampling Point  | Meter                |  | 19.00   | ) M.                         |  |  |
|     |   |                      |  | Limit as per E (P)<br>Rules Schedule I  | Concentration<br>( mg / NM³) |  |  |
| 13  | Particulate Matter (P.M.)                               | mg / NM³             | IS 11255 (Part-1)  | 500.00 mg / NM³<br>(12% CO <sub>2</sub> )   | 43.2                         |  |  |
| 10. | Sulphur Dioxide (SO <sub>2</sub> ) ma / NM <sup>3</sup> |                      | 1  |   |                              |  |  |
| 14. | Sulphur Dioxide (SO <sub>2</sub> )                      | mg / NM³             | IS 11255 (Part-2)  | Not Specified   | 15.8                         |  |  |

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#### TEST REPORT

|     | Ref. No. STH/TR/22-23/4838 Dt: 07.                                   | 01.2023       |   | Your Work Order No. WP/215/22 Dt: 08.08.2022          |   |  |  |  |
|-----|--|---------------|---|---|---|--|--|--|
| [a] | Name and address of the Customer                                     |               | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |   |   |  |  |  |
| [b] | Details of Sample  |               | Monitoring of   | Monitoring of Stack Emission                          |   |  |  |  |
| [c] | Sample Collected by  |               |   | SHIVA TEST HOUSE on 21.12.22                          |   |  |  |  |
| [d] | Sampling Location  |               | Premises of   | Premises of Sugar Mill                                |   |  |  |  |
| [e] | Method of Sampling   |               | IS 5182 (Part   |   |   |  |  |  |
| [f] | Sampling Environmental Condition                                     |               | Temp. (°C)  |   |   |  |  |  |
| [g] | No. & Type of Container  |               | Thimble & Gla   |   |   |  |  |  |
| [h] | Instrument ID  |               | VSS IPLS  |   |   |  |  |  |
| [i] | Sample Quantity  |               | 60 ml   |   |   |  |  |  |
| [j] | Sample Code  |               | ST-4838   |   |   |  |  |  |
| [k] | Sample Condition on Receipt  |               | Fit for Analysis  | 5   |   |  |  |  |
| [1] | Items required to be tested  | As per contra | ct  |   |   |  |  |  |
| [m] | Whether any specific Method of Test I<br>been suggested by the party | No            |   |   |   |  |  |  |
| [n] | Date of receiving the sample   | 22.12.22      |   |   |   |  |  |  |
| [0] | Analysis Start Date / Analysis Comple                                | tion Date     | 22.12.22 / 24.1   | 2.22  |   |  |  |  |
|     | Parameters   | Unit          | Method of<br>Test   | Results   |   |  |  |  |
| 1.  | Type of Fuel   |               |   | Baga  | asse                                      |  |  |  |
| 2.  | Stack Connected to   |               |   | Dumping Grate Type<br>Steam generation of             | Boiler No. 11 having apacity 40.0 T / hr. |  |  |  |
| 3.  | Stack No.  |               |   | 11  | 1   |  |  |  |
| 4.  | Height of Stack above ground level (as reported)                     | Meter         | <u>(3)</u>  | 40.00   | 0 M.                                      |  |  |  |
| 5.  | Dia of Stack at Top (as reported)                                    | Meter         |   | 2.50  | M.  |  |  |  |
| 6.  | Material of Constriction   |               |   | ID F  | an  |  |  |  |
| 7.  | Material of Construction   |               |   | M.  | S.  |  |  |  |
| 8.  | Ambient Temperature  | °C            |   | 24  | .0  |  |  |  |
| 9.  | Flue Gas Temperature   | °C            |   | 133   | 3.0                                       |  |  |  |
| 10. | Velocity   | m/sec.        | IS 11255 (Part-3)   | 7.  | 9   |  |  |  |
| 11. | Volumetric Flow Rate   | NM³/hr.       |   | 1024  | 59.8                                      |  |  |  |
| 12. | Sampling Point   | Meter         |   | 21.00   | ) M.                                      |  |  |  |
|     |  |               |   | Limit as per E (P)<br>Rules Schedule I                | Concentration                             |  |  |  |
| 13. | Particulate Matter (P.M.)  | mg / NM³      | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> )   | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 43.7                                      |  |  |  |
| 14. | Sulphur Dioxide (SO <sub>2</sub> )                                   | mg / NM³      | Not Specified   | Not Specified   | 14.0                                      |  |  |  |
| 15. | Oxides of Nitrogen (NO <sub>2</sub> )                                | mg / NM³      | Not Specified   | Not Specified   | 34.0                                      |  |  |  |

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- END OF TEST REPORT

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#### TEST REPORT

| [a]   | Name and address of the Custome   | er 07.01.2023                         | Your Work Order No. WP/215/22 Dt: 08.08.2022  Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                        |                               |         |  |  |
|---|---|---------------------------------------|---|------------------------|-------------------------------|---------|--|--|
| [b]   | Sampling Environmental Cond   | ition                                 | Temp. (°C)  | 24                     | and the second second         |         |  |  |
| [c]   | Details of Sample   |                                       | Monitoring of Ambie periphery   | nt Noise               | Level within factor           | y       |  |  |
| [d]   | Monitored by  |                                       | SHIVA TEST HOUSE  | on 21.                 | 12.22                         |         |  |  |
| [e]   | Items required to be tested   | *                                     | As per request  |                        |                               |         |  |  |
| [f] Whether any specific Method of Test has been suggested by the party |   |                                       | No  |                        |                               |         |  |  |
|   | Monitoring Location   | Unit                                  | Time Weighted Average (TWA) of Noise Level  |                        |                               |         |  |  |
| S. N  |   |                                       | Day time (6:00 am<br>10:00 pm)  | to I                   | Night time (10:00<br>6:00 am) | pm to   |  |  |
| 1.  | Near Main Gate  | dB(A)                                 | 63.2  |                        | 55.1                          |         |  |  |
| 2.  | Near Boiler House   | dB(A)                                 | 58.7  |                        | 49.6                          |         |  |  |
| 3.  | Near Cooling Tower  | dB(A)                                 | 61.3  |                        | 55.2                          |         |  |  |
| 4.  | Near ETP  | dB(A)                                 | 62.5  |                        | 55.2                          |         |  |  |
| 5.  | Near Sugar Godown   | dB(A)                                 | 61.3  |                        | 48.2                          |         |  |  |
| N.B.:   | The Ambient Air Quality Standards Industrial area is 75.0 dB(A), for is 50.0 dB(A) in daytime i.e. 6.00 ar noise level exceed the ambient noise | Commercial area<br>n to 9.0 p.m. As p | is 65.0 dB(A), for Residentia<br>er Rule 7(1&2) the authority   | l area is<br>shall tak | 55.0 dB(A) & for Siler        | co Zone |  |  |

SHIBESHW Digitally signed by SHIBESHWAR PRASAD AR PRASAD Date: 2023.01.09

Verified by: Technical Manager



- END OF TEST REPORT

Prasad

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

> Authorized Signatory Quality Manager

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Contact us:

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Mob.: +918676886249 ; +919431047908 Website: www.shivatest.com; www.shivatesthouse.com

sthpatnal@yahoo.co.in; info@shivatest.com





# SHIVA TEST HOUSE



(Serving since 1988)

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

### TEST REPORT

|   |   |  | IESI KE               | PURI  |   |                                      |                                    |  |
|---|---|--|-----------------------|---|---|--------------------------------------|------------------------------------|--|
| Ref. No. STH/TR/22-                     | 23/4274-4   | 277 Dt: 1                                | 6.12.2022             | Your Work   | Order No. WP                            | /215/22 Dt                           | : 08.08.2022                       |  |
| [a] Name and address of                 | the Custon  | ner                                      |                       | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |   |                                      |                                    |  |
| [h] Details of Sample                   | [b] Details of Sample   |  |                       |   |   |                                      |                                    |  |
|   | [c] Sample Collected by   |  |                       |   |   | У                                    |                                    |  |
| [d] Sampling Location                   |   | Shiva Test Hous                          |                       |   |   |                                      |                                    |  |
| [e] Method of Sampling                  |   | Premises of S                            |                       |   |   |                                      |                                    |  |
|   |   | IS 5182 (Part - 1                        |                       |   |   |                                      |                                    |  |
| [f] Sampling Environmen                 |   | Temp. (°C)                               | 26 H                  | fumidity (%)  | 67                                      |                                      |                                    |  |
| [g] Details of Sample Co                | ntainer (No   | <ol> <li>&amp; Type of Contai</li> </ol> | ner)                  | Filter Paper; Gla   | ss Impinger                             |                                      |                                    |  |
| [h] Instrument ID                       |   |  |                       | RDS-1, RDS-2, I   | RDS-3, RDS-4,                           | FPM-1, FPM-2, F                      | PM-3, FPM-4                        |  |
| [i] Sample Quantity                     |   |  |                       | 30 ml x 24 (for ea  | ach NO <sub>2</sub> , SO <sub>2</sub> ) |                                      |                                    |  |
| [j] Sample Condition on                 |   |  |                       | Fit for Analysis  |   |                                      |                                    |  |
| [k] Items required to be tested         |   |  |                       | As per contract   |   |                                      |                                    |  |
| [I] Whether any specific customer       | [I] Whether any specific Method of Test has been suggested by the |  |                       |   |   |                                      |                                    |  |
| [m] Date of receiving the               | sample in L   | aboratory                                |                       | 26.1.1.22   |   |                                      |                                    |  |
| [n] Analysis Start Date / A             | Analysis Co   | ompletion Date                           |                       | 27.11.22/29.11.   | 22                                      |                                      |                                    |  |
|   |   | l bato                                   | 1 : :                 |   |   |                                      |                                    |  |
| Parameters                              | Unit  | Method of                                | Limit as per          | Near Main   | Sampling St                             |                                      |                                    |  |
| rarameters                              | Unit  | Test                                     | NAAQS<br>2009         | Gate<br>(SC_A-4474)   | Near Store<br>(SC_A-4475)               | Near Cooling<br>Tower<br>(SC_A-4476) | Near Guest<br>House<br>(SC_A-4477) |  |
| Destinate Many (DM)                     |   | IS 5182                                  |                       | 88.2  | 75.7                                    | 83.4                                 | 79.8                               |  |
| Particulate Matter (PM <sub>10</sub> )  | µg / m³   | (Part-23)                                | 100                   | 82.3  | 81.0                                    | 81.4                                 | 88.6                               |  |
|   |   |  |                       | 81.7  | 80.0                                    | 84.4                                 | 81.5                               |  |
| Particulate Matter (PM <sub>2.5</sub> ) | $\mu g / m^3$   | CPCB GMAAP                               | 60                    | 48.1<br>36.7  | 46.8                                    | 48.1                                 | 42.5                               |  |
| (* 1112.5)                              | pg/III  | OI OB OWING                              | 00                    | 40.5  | 31.6<br>39.2                            | 36.7                                 | 26.3                               |  |
|   |   |  |                       | 15.1  | 11.1                                    | 43.0<br>19.1                         | 33.8<br>15.6                       |  |
|   |   | 50 CC 24 VANDOS                          | 3                     | 16.4  | 16.4                                    | 15.4                                 | 18.9                               |  |
| Sulphur Dioxide as SO <sub>2</sub>      | $\mu q / m^3$   | IS 5182                                  | 80                    | - 12.1  | 10.1                                    | 13.1                                 | 13.7                               |  |
|   | µg/III  | (Part-2)                                 | 80                    | 14.1  | 14.1                                    | 12.1                                 | 11.7                               |  |
|   |   |  |                       | 11.1  | 11.1                                    | 14.1                                 | 13.7                               |  |
|   |   |  |                       | 19.1  | 19.1                                    | 16.1                                 | 17.6                               |  |
|   |   |  |                       | 36.2  | 44.5                                    | 41.7                                 | 29.2                               |  |
| NII.                                    |   | IS 5182                                  | See a constitution of | 33.5<br>30.8  | 38.4                                    | 39.1                                 | 31.2                               |  |
| Nitrogen Dioxide as NO <sub>2</sub>     | μg / m³   | (Part-6)                                 | 80                    | 29.4  | 30.8<br>26.7                            | 34.9<br>32.1                         | 29.2<br>26.5                       |  |
|   |   | (, =,, 0)                                |                       | 31.5  | 30.1                                    | 33.5                                 | 26.5                               |  |
|   |   |  |                       | 39.7  | 40.4                                    | 35.6                                 | 34.5                               |  |
| Average Value                           |   |  |                       |   | *************************************** |                                      | 35/445                             |  |
| PM <sub>10</sub>                        | µg / m³   |  |                       | 82.4  | 78.9                                    | 83.1                                 | 83.3                               |  |
| PM <sub>2.5</sub>                       | μg / m³   |  |                       | 41.8  | 39.2                                    | 42.6                                 | 34.2                               |  |
| SO <sub>2</sub>                         | μg / m³   |  |                       | 440   | 40.0                                    |                                      |                                    |  |
|   | µg / m  |  |                       | 14.6  | 13.6                                    | 15.0                                 | 15.2                               |  |

**SHIBESHW** AR PRASAD Date: 2022.12.19 17:53:30 +05'30'

Digitally signed by SHIBESHWAR PRASAD

Verified by: Technical Manager



Shreyasee Digitally signed by Shreyasee Prasad Prasad

Date: 2022.12.19 18:13:17 +05'30' Authorized Signatory Quality Manager

END OF TEST REPORT

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# TEST REPORT

| Ref  | f. No. STH/TR/22-23/4278 Dt:                                    | 16.12.2022 | Your Work Order No. WP/   | 215/22 Dt: 08.08.2022              |  |  |  |
|------|---|------------|---|------------------------------------|--|--|--|
| [a]  | Name and address of the Custome                                 | r          | Executive Director M/s MAJHAWLIA SUGAR IN P.O.: Majhaulia W.Champaran – 845 454 |                                    |  |  |  |
| [b]  | Sampling Environmental Cond                                     | ition      | Temp. (°C) 2  | 6 Humidity (%) 67                  |  |  |  |
| [c]  | Details of Sample   |            | Monitoring of Ambient Noise Level within factory periphery                      |                                    |  |  |  |
| [d]  | Monitored by  |            | Shiva Test House on 2   | 5.11.2022                          |  |  |  |
| [e]  | Items required to be tested                                     |            | As per request  |                                    |  |  |  |
| [f]  | Whether any specific Method of T<br>been suggested by the party | Test has   | No  |                                    |  |  |  |
|      | been suggested by the party                                     |            | Time Weighted Average (TWA) of Noise Leve                                       |                                    |  |  |  |
| S. N | Monitoring Location   | Unit       | Daytime (6:00 am to 10:00 pm)   | Nighttime (10:00 pm to<br>6:00 am) |  |  |  |
| 1.   | Near Main Gate  | dB(A)      | 64.3  | 56.1                               |  |  |  |
| 2.   | Near Boiler House   | dB(A)      | 60.2  | 51.8                               |  |  |  |
| 3.   | Near Cooling Tower  | dB(A)      | 59.9  | 53.5                               |  |  |  |
| 4.   | Near ETP  | dB(A)      | 63.1  | 54.1                               |  |  |  |
|      |   | dB(A)      | 61.3  | 50.1                               |  |  |  |

N.B.:

The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) 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.

SHIBESHW Digitally signed by SHIBESHWAR PRASAD AR PRASAD Date: 2022.12.19 17:53:47 +05'30'

Verified by: Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad Date: 2022.12.19 18:13:34 +05'30' Authorized Signatory Quality Manager

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#### TEST REPORT

| Ref. No. STH/TR/22-23/4288 Dt: 16.1                                    | 2.2022       | Your Work Order N                                      |  | Dt: 08.08.2022   |
|--|--------------|--|--|--|
| a] Name and address of the Customer                                    | _ ' [ '      | Executive Dire M/s MAJHAULI P.O.: Majhauli W.Champarar | A SUGAR INDUSTRIE<br>ia  | S PVT. LTD.  |
| [b] Details of Sample  |              | Monitoring o   | f Stack Emission   |  |
| c] Sample Collected by   |              | SHIVA TEST   | HOUSE on 25.11.22  |  |
| d Sampling Location  |              | Premises of S  | Sugar Mill   |  |
|  |              | IS 5182 (Part -  | 14)  |  |
| [e] Method of Sampling [f] Sampling Environmental Condition            |              | Temp. (°C)   | 26 Humidity  | (%) 67   |
| g] No. & Type of Container   |              | Thimble & Gla  | ss Impinger  |  |
| h] Instrument ID   |              | VSS IPLS   |  |  |
| i] Sample Quantity   | *            | 60 ml  |  |  |
| j] Sample Code   |              | ST-4288  |  |  |
| Sample Code   Sample Condition on Receipt                              |              | Fit for Analysis                                       |  |  |
| Il Items required to be tested   |              | As per contrac   |  |  |
| [m] Whether any specific Method of Test<br>been suggested by the party | t has        | No   |  |  |
| n] Date of receiving the sample  |              | 26.11.22   | STATE OF THE PARTY |  |
| [o] Analysis Start Date / Analysis Comp                                | letion Date  | 27.11.22 / 29.1  |  | 20 PM  |
| Parameters   | Unit         | Method of Test   | Resu   |  |
| 1. Type of Fuel  |              |  | Baga Dumping Grate Bo  | SSE  |
| 2. Stack Connected to  |              |  | Steam generation ca  | apacity 32.0 T / h   |
| 2AN Descriptions   |              |  | 1  |  |
| Stack No.     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 F   | an   |
| 7. Material of Construction  |              |  | M.S  | S  |
| Ambient Temperature, °C  | °C           |  | 26   | C11  |
| 9. Flue Gas Temperature, °C  | °C           |  | 125  |  |
| 10. Velocity, m/sec.   | m/sec.       | IS 11255 (Part-3)                                      | 7.   |  |
| 11. Volumetric Flow Rate ( NM³/hr.)                                    | NM³/hr.      |  | 3381   |  |
| 12. Sampling Point   | Meter        |  | 11.00  | THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA |
|  |              |  | Limit as per E<br>(P) Rules Schedule I   | Concentration ( mg / NM³ )   |
| 13. Particulate Matter (P.M.)  | mg / NM³     | IS 11255 (Part-1)                                      | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> )  | 42.5   |
|  | mg / NM³     | IS 11255 (Part-2)                                      | Not Specified  | 16.0   |
| 14. Sulphur Dioxide (SO <sub>2</sub> )                                 | 1119 / 14141 | To I receive to any                                    | Not Specified  | 34.0   |

AR PRASAD Date: 2022.12.19 17:59:29 +05'30'

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Verified by: Technical Manager



Authorized Signatory Quality Manager

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# SHIVA TEST HOUSE



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#### TEST REPORT

|     | Ref. No. STH/TR/22-23/4289 Dt: 1                                   | 6.12.2022   | Your Work Order N   | No. WP/215/22 I                                       | ot: 08.08.2022                         |
|-----|--|-------------|---|---|--|
| [a] | Name and address of the Customer                                   |             | Executive Di<br>M/s MAJHAUL<br>P.O.: Majhau<br>W.Champara | IA SUGAR INDUSTRIE                                    | S PVT. LTD.                            |
| [6] | Details of Sample  |             |   | of Stack Emission                                     |  |
| [c] | Sample Collected by  |             |   | HOUSE on 25.11.22                                     |  |
| d   | Sampling Location  |             | Premises of   |   |  |
| [e] | Method of Sampling   |             | IS 5182 (Part   | - 14)   |  |
| [f] | Sampling Environmental Condition                                   |             | Temp. (°C)  | 26 Humidity   | (%) 67                                 |
| [g] | No. & Type of Container  |             | Thimble & Gla   |   |  |
| [h] | Instrument ID  |             | VSS IPLS  |   |  |
| [i] | Sample Quantity  | -           | 60 ml   |   |  |
| [j] | Sample Code  |             | ST-4289   |   |  |
| [k] | Sample Condition on Receipt  |             | Fit for Analysis  | S   |  |
| [1] | Items required to be tested  |             | As per contra   | ct  |  |
| [m] | Whether any specific Method of Test<br>been suggested by the party | has         | No  |   |  |
| [n] | Date of receiving the sample                                       |             | 26.11.22  |   |  |
| [0] | Analysis Start Date / Analysis Compl                               | letion Date | 27.11.22 / 29.1   | 1.22  |  |
|     | Parameters   | Unit        | Method of Test  | Res   | ults                                   |
| 1.  | Type of Fuel   |             |   | Baga  |  |
| 2.  | Stack Connected to   | -           |   | Horse Shoe Type B<br>Steam generation ca              |  |
| 3.  | Stack No.  |             |   | ll ll   |  |
| 4.  | Height of Stack above ground level (as reported)                   | Meter       |   | 40.00   | 0 M.                                   |
| 5.  | Dia of Stack at Top (as reported)                                  | Meter       |   | 2.55  | M.                                     |
| 6.  | Material of Constriction   |             |   | ID F  | an                                     |
| 7.  | Material of Construction   |             |   | M.  | S.                                     |
| 8.  | Ambient Temperature, °C  | °C          |   | 26  | .0                                     |
| 9.  | Flue Gas Temperature, °C   | °C          |   | 132   | 2.0                                    |
| 10. | Velocity, m/sec.   | m/sec.      | IS 11255 (Part-3)   | 6.  | 4                                      |
| 11. | Volumetric Flow Rate ( NM3/hr.)                                    | NM³/hr.     |   | 8593  | 35.6                                   |
| 12. | Sampling Point   | Meter       |   | 19.00   | ) M.                                   |
|     |  |             | 7)  | Limit as per E (P)<br>Rules Schedule I                | Concentration<br>(mg/NM <sup>2</sup> ) |
| 13. | Particulate Matter (P.M.)  | mg / NM³    | IS 11255 (Part-1)   | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 47.3                                   |
| 14. | Sulphur Dioxide (SO <sub>2</sub> )                                 | mg / NM³    | IS 11255 (Part-2)   | Not Specified   | 14.1                                   |
| 15. | Oxides of Nitrogen (NO <sub>2</sub> )                              | mg / NM³    | IS 11255 (Part-7)   | Not Specified   | 34.0                                   |

SHIBESHW Digitally signed by SHIBESHWAR PRASAD AR PRASAD Date: 2022.12.19 17:59:47 +05'30'

Verified by: Technical Manager



e Prasad

Shreyase Digitally signed by Shreyasee Prasad Digitally signed by Date: 2022.12.19 18:13:46 +05'30"

Authorized Signatory Quality Manager

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# TEST REPORT

|            | Ref. No. STH/TR/22-23/4290 Dt: 16.1  | 12.2022    | Your Work Order N                                      | 0. 111/210/22   | t: 08.08.2022                               |
|------------|--|------------|--|---|---|
| [a]        | Name and address of the Customer   |            | Executive Dire M/s MAJHAULI P.O.: Majhauli W.Champaran | A SUGAR INDUSTRIES<br>a                               | PVT. LTD.                                   |
| [6]        | Details of Sample  |            |  | f Stack Emission                                      |   |
| [0]        | Sample Collected by  |            |  | HOUSE on 25.11.22                                     |   |
| _          | Sampling Location  |            | Premises of S  | Sugar Mill  |   |
| d]         | Method of Sampling   |            | IS 5182 (Part -  | 0   |   |
| e]         | Sampling Environmental Condition   |            | Temp. (°C)   | 26 Humidity   | (%) 67                                      |
| f]         | No. & Type of Container  |            | Thimble & Gla.   | ss Impinger   |   |
| g]         | Instrument ID  |            | VSS 1PLS   |   |   |
| h]         | Sample Quantity  | -          | 60 ml  |   |   |
| i]         | Sample Quantry Sample Code   |            | ST-4290  |   |   |
| <u>j]</u>  | Sample Code Sample Condition on Receipt  |            | Fit for Analysis                                       |   |   |
| [k]_       |  |            | As per contrac   | t   |   |
| [l]<br>[m] | Items required to be tested  Whether any specific Method of Test been suggested by the party | has        | No   |   |   |
| F., 1      | Date of receiving the sample   |            | 26.11.22   |   |   |
| [n]        | Analysis Start Date / Analysis Comple  | etion Date | 27.11.22 / 29.11                                       | 1.22  |   |
| [0]        | Parameters   | Unit       | Method of<br>Test                                      | Resu  | ılts  |
| 1.         | Type of Fuel   |            |  | Baga  | sse   |
| 2.         | Stack Connected to   |            |  | Dumping Grate Type<br>Steam generation ca             | Boiler No. 11 havin<br>apacity 40.0 T / hr. |
| 3.         | Stack No.  |            |  | 111   |   |
| 4.         | Height of Stack above ground level (as reported)   | Meter      | 2  | 40.00   | М.  |
| 5.         | Dia of Stack at Top (as reported)  | Meter      |  | 2.50  | M.  |
| 6.         | Material of Constriction   |            |  | ID F  | an  |
| 7.         | Material of Construction   |            |  | M.S   | 3.  |
| 8.         | Ambient Temperature, °C  | °C         |  | 26.   | 0   |
| 9.         | Flue Gas Temperature, °C   | °C         |  | 135   |   |
| 10.        | Velocity, m/sec.   | m/sec.     | IS 11255 (Part-3)                                      | 7.4   | 4   |
| 11.        |  | NM³/hr.    |  | 8849  | 9.6   |
| 12.        | Sampling Point   | Meter      |  | 21.00   |   |
| 1 Sec.     | extributed to our  |            |  | Limit as per E (P)<br>Rules Schedule I                | Concentration<br>(mg/NM³)                   |
| 13.        | Particulate Matter (P.M.)  | mg / NM³   | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> )  | 500.00 mg / NM <sup>3</sup><br>(12% CO <sub>2</sub> ) | 44.4  |
| 14.        | Sulphur Dioxide (SO <sub>2</sub> )   | mg / NM³   | Not Specified  | Not Specified   | 16.4  |
| E. 1555    | Oxides of Nitrogen (NO <sub>2</sub> )  | mg / NM³   | Not Specified  | Not Specified   | 26.5  |

SHIBESHW Digitally signed by SHIBESHWAR PRASAD AR PRASAD Date: 2022.12.19

Verified by: Technical Manager



Prasad

Shreyasee Digitally signed by Shreyasee Prasad Date: 2022.12.19 18:13:57 +05'30'

> Authorized Signatory **Ouality Manager**

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#### TEST REPORT

| Re          | f. No. STH/TR/22-23/4291 Dt: 16.12.2022   | Your Work Order No. WP/21   | 5/22 Dt: 08.0  | 08.2022 |
|-------------|---|---|----------------|---------|
| [a]         | Name and address of the Customer          | Executive Director M/s MAJHAULIA SUGAR INDUST P.O.: Majhaulia W.Champaran – 845 454 | RIES PVT. LTD. | -       |
| [b]         | Details of Sample                         | Borewell Water Sample   |                |         |
| [c]         | Sample Collected by                       | SHIVA TEST HOUSE on 27.11.  | 22             |         |
| [d]         | Sampling Location                         | Collected from Near Guest House   |                |         |
| [e]         | Method of Sampling                        | IS 3025, APHA   |                |         |
| [f]         | Sampling Environmental Condition          | Temp. (°C) 26   | Humidity (%    | 6) 67   |
| [g]         | No. & Type of Container                   | Plastic Bottle (02)   |                |         |
| [h]         | Sample Quantity                           | 2 Litres  |                |         |
| [i]         | Sample Code                               | BW-4291   |                |         |
| [i]         | Sample Condition on Receipt               | Fit for Analysis  |                |         |
| [k]         | Items required to be tested               | As per Contract   |                |         |
| [1]         | Date of receiving the sample              | 28.11.22  |                |         |
| [m]<br>Date | Analysis Start Date / Analysis Completion | 28.11.22 / 30.11.22   |                |         |

|      |                                       |       |                   | Limit as p          | er IS 10500: 2012                                      | Results   |
|------|---------------------------------------|-------|-------------------|---------------------|--|-----------|
| S.N. | Parameters                            | Unit  | Method of Test    | Acceptable<br>Limit | Permissible Limit in the absence of alternative source |           |
| 1    | Colour                                | C.U.  | IS 3025 (Part-4)  | 5                   | 15   | <5.0      |
| 2    | Odour                                 |       | IS 3025 (Part-5)  | Agreeable           | Agreeable  | Agreeable |
| 3    | Taste                                 |       | IS 3025 (Part-7)) | Agreeable           | Agreeable  | Agreeable |
| 4    | pH                                    |       | IS 3025 (Part-11) | 6.5 to 8.5          | No relaxation  | 7.58      |
| 5    | Turbidity on NTU                      |       | IS 3025 (Part-10) | 1.0                 | 5.0  | 1.0       |
| 6    | Total Dissolved Solids (TDS)          | mg/l. | IS 3025 (Part-16) | 500.0               | 2000.0   | 284.0     |
| 7    | Total Hardness as CaCO <sub>3</sub>   | mg/l. | IS 3025 (Part-21) | 200.0               | 600.0  | 216.0     |
| 8    | Calcium as Ca                         | mg/l. | IS 3025 (Part-40) | 75.0                | 200.0  | 52.9      |
| 9    | Magnesium as Mg                       | mg/l. | IS 3025 (Part-46) | 30.0                | 100.0  | 20.4      |
| 10   | Iron as Fe                            | mg/l. | IS 3025 (Part-53) | 1.0                 | No relaxation  | 0.42      |
| 11   | Residual Free Chlorine                | mg/l. | IS 3025 (Part-26) | 0.2                 | 1  | < 0.01    |
| 12   | Total Alkalinity as CaCO <sub>3</sub> | mg/l. | IS 3025 (Part-23) | 200.0               | 600.0  | 196.0     |
| 13   | Chloride as CI                        | mg/l. | IS 3025 (Part-32) | 250.0               | 1000.0   | 15.0      |
| 14   | Sulphate as SO <sub>4</sub>           | mg/l. | IS 3025 (Part-24) | 200.0               | 400.0  | 23.8      |
| 15   | Nitrate as NO <sub>3</sub>            | mg/l. | IS 3025 (Part-34) | 45.0                | No relaxation  | 1.88      |
| 16   | Fluoride as F                         | mg/l. | APHA 4500 (F D)   | 1.0                 | 1.5  | 0.30      |

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18:02:49 +05'30'

Verified by: Technical Manager



Prasad

Shreyasee Digitally signed by Shreyasee Prasad Date: 2022.12.19 18:14:08 +05'30"

> Authorized Signatory Quality Manager

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#### TEST REPORT

| Ref. N  | No. STH/TR/22-23/42                         | 291(Mcb)     | Dt: 16.12.2022 | Your Work  | Order No. V        | VP/215/22 Dt:   | 08.08.2022 |
|---------|---|--------------|----------------|--|--------------------|-----------------|------------|
| [a] Na  | ame and address of t                        | he Custome   | er             | Executive Di<br>M/s MAJHAU<br>P.O.: Majhau<br>W. Champar | ILIA SUGAF<br>Ilia | R INDUSTRIES PV | T. LTD.    |
| [b] D   | etails of Sample                            |              |                | Borewell water   | sample             |                 |            |
| [c] Sa  | ample Collected by                          |              |                | SHIVA TEST   | HOUSE or           | n 27.11.22      |            |
| [d] S   | ampling Location                            |              |                | Collected from   | Near Guest Ho      | ouse            |            |
| [e] M   | ethod of Sampling                           |              | *              | IS 1622  |                    |                 |            |
| [f] S   | ampling Environment                         | al Condition |                | Temp (°c)  | 26                 | Humidity (%)    | 67         |
| [g] N   | lo. & Type of Contain                       | er           |                | One Sterilized   | Glass Bottle       |                 |            |
| [h] S   | ample Quantity                              |              |                | 250 ml   |                    |                 |            |
| [i] S   | ample Code                                  |              |                | BW-4291  |                    |                 |            |
| [j] S   | ample Condition on R                        | eceipt       |                | Fit for analysis   | S                  |                 |            |
| [k] Ite | ems required to be te                       | sted         |                | As per contrac   | ct                 |                 |            |
| [I] V   | Whether any specific Muggested by the custo | Method of Te | est has been   | No   |                    |                 |            |
|         | ate of receiving the sa                     |              | boratory       | 28.11.22   |                    |                 |            |
| [n] A   | nalysis Start Date / A                      | nalysis Com  | pletion Date   | 28.11.22 / 29.   | 11.22              |                 |            |
| S.N     |   | Unit         | Method of Test | Limit as pe  |                    | Result          | ts         |
| 1       | Total Coliform                              | / 100 ml     | IS 1622:1981   | Shall not be det   |                    | Not Detected    | / 100 ml   |



Authorized Signatory Section In-Charge (Microbiology)

END OF TEST REPORT

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#### TEST REPORT

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

**SHIBESHW** AR PRASAD Date: 2022.12.19
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Shreyasee Prasad

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## TEST REPORT

|          | Ref. No. STH/TR/22-23/4293                          | Dt: 16.12.20 | 122     | Your Work Orde  | r No. WP/215/22 Dt: 08                  | 3.08.2022 |
|----------|---|--------------|---------|---|---|-----------|
| [a]      | Name and address of the Customer                    |              |         | Executive Dir<br>M/s MAJHAULI<br>P.O.: Majhaul<br>W.Champarai | A SUGAR INDUSTRIES PVT<br>ia            | . LTD.    |
| [b]      | Details of Sample                                   |              |         | Treated Effluer   | it sample                               |           |
| [c]      | Sample Collected by                                 |              |         | SHIVA TEST I  | HOUSE on 27.11.22                       |           |
| [d]      | Sampling Location                                   |              |         | From Outlet of  |   |           |
| [e]      | Method of Sampling                                  |              |         | IS 3025, APH  | 4                                       |           |
| [f]      | Sampling Environmental Condition                    |              |         | Temp. (°C)  | 26 Humidity (%)                         | 67        |
|          | Details of Sample Container (No. & T                | ype of Conta | iner)   | Plastic Bottle (  | 02)                                     |           |
|          | Sample Quantity                                     |              |         | 2 Litres  |   |           |
|          | Sample Code   |              |         | E-4293  |   |           |
|          | Sample Condition on Receipt                         | *            |         | Fit for Analysis  |   |           |
| [k]      | Items required to be tested                         |              |         | As per contrac  | t                                       |           |
|          | Whether any specific Method of Test by the customer | has been su  | ggested | No  |   |           |
| [m]      | Date of receiving the sample in Labo                | ratory       |         | 28.11.22  |   |           |
| [n]      | Analysis Start Date / Analysis Compl                | etion Date   |         | 28.11.22 / 01.  | 12.22                                   |           |
| S.<br>N. | Parameters  | Unit         | M       | ethod of Test   | Limit as per E<br>(P) Rules Schedule VI | Resul     |
| 1        | рН  |              | IS 30   | 25 (Part-11)  | 5.5 to 8.5                              | 7.64      |
| 2 .      | Suspended Solids                                    | mg/l.        | IS 30   | )25(Part-17)  | 100.0                                   | 46.0      |
| 3        | Oil & Grease  | mg/l.        | IS 30   | 25 (Part-39)  | 10.00                                   | 1.4       |
| 4        | B.O.D.(3 days at 27°C)                              | mg/l.        | IS 30   | 25 (Part-44)  | 100.00                                  | 26.0      |
| 5        | C.O.D.  | mg/l.        | AP      | HA 5220 B   | Not Specified                           | 128.0     |
| 6        | Dissolved Phosphate as P                            | mg/l.        | APHA    | (4500-P-D)  | Not Specified                           | 1.16      |
| 7        | Ammonical Nitrogen as N                             | mg/l.        | IS 30   | 25 (Part-34)  | Not Specified                           | 11.2      |
| 8        | Total Kjeldahl Nitrogen as N                        | mg/l.        | APHA    | (4500 N org)  | Not Specified                           | 19.04     |
|          | Total Dissolved Solids                              | mg/l.        | 10.00   | )25(Part-16)  | 2100.00                                 | 747.0     |

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Prasad

Shreyasee Digitally signed by Shreyasee Prasad Date: 2022.12.19 18:14:47 +05'30'

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#### TEST REPORT

|          |   |                |      | <b>Executive Direc</b>                            | tor    |                                |         |
|----------|---|----------------|------|---|--------|--------------------------------|---------|
| [a]      | Name and address of the Customer                        |                |      | M/s MAJHAULIA<br>P.O.: Majhaulia<br>W.Champaran - | SUGAR  |                                | r. LTD. |
| [b]      | Details of Sample                                       |                |      | Effluent sample                                   |        |                                |         |
|          | Sample Collected by                                     |                |      | SHIVA TEST HO                                     |        |                                |         |
| [d]      | Sampling Location                                       |                |      | Collected from Po                                 | nd Wat | ter                            |         |
|          | Method of Sampling                                      |                |      | IS 3025, APHA                                     | 1      |                                | 1 47    |
| [f]      | Sampling Environmental Condition                        |                |      | Temp. (°C)  | 26     | Humidity (%)                   | 67      |
|          | Details of Sample Container (No. & Typ                  | e of Container | )    | Plastic Bottle (02                                | !)     |                                |         |
|          | Sample Quantity   |                |      | 2 Litres  |        |                                |         |
| <u> </u> | Sample Code   | -              |      | E-4294  |        |                                |         |
| MA       | Sample Condition on Receipt                             |                |      | Fit for Analysis As per contract                  |        |                                |         |
|          | Items required to be tested                             |                | atad | As per contract                                   |        |                                |         |
|          | Whether any specific Method of Test has by the customer | as been sugge  | steu | No  |        |                                |         |
|          | Date of receiving the sample in Laborat                 |                |      | 28.11.22  |        |                                |         |
| [n]      | Analysis Start Date / Analysis Completi                 |                |      | 28.11.22/01.12                                    |        | E (D)                          |         |
| S.<br>N. | Parameters  | Unit           | Me   | ethod of Test                                     |        | as per E (P)<br>es Schedule VI | Result  |
| 1        | рН  |                | IS   | 3025 (Part-11)                                    | 5      | 5.5 to 8.5                     | 7.14    |
| 2        | Suspended Solids  | mg/l.          | IS   | 3025(Part-17)                                     |        | 100.0                          | 49.0    |
| 3        | Oil & Grease  | mg/l.          | IS   | 3025 (Part-39)                                    |        | 10.00                          | 0.9     |
| 4        | B.O.D.(3 days at 27°C)                                  | mg/l.          | IS   | 3025 (Part-44)                                    |        | 100.00                         | 26.0    |
| 5        | C.O.D.  | mg/l.          | A    | APHA 5220 B                                       | No     | ot Specified                   | 116.0   |
| 6        | Dissolved Phosphate as P                                | mg/l.          |      | APHA<br>( 4500-P-D )                              | No     | t Specified                    | 1.16    |
| 7        | Ammonical Nitrogen as N                                 | mg/l.          | IS   | 3025 (Part-34)                                    | No     | ot Specified                   | 8.4     |
|          | Total Kjeldahl Nitrogen as N                            | mg/l.          | AP   | HA (4500 N org)                                   | No     | ot Specified                   | 11.2    |
| 8        | Total Nicidam Milliogen do 11                           |                |      |   |        |                                |         |

AR PRASAD Date: 2022.12.19

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Verified by: Technical Manager



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Date: 2022.12.19 Prasad 18:14:57 +05'30"

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## TEST REPORT

| [a] Na                               | ame and address of the Custon  | mer                                      |   | M/s MA   | tive Director<br>JHAULIA SUGAR<br>Majhaulia<br>Imparan – 845 45                      | INDUSTRIES PVT. L  | .TD.                         |
|--------------------------------------|--|--|---|--|--|--|------------------------------|
| [b] De                               | etails of Sample   |  |   | Water  | Sample   |  |                              |
|                                      | imple Collected by   |  |   |  | TEST HOUSE of  |  |                              |
|                                      | impling Location   |  |   |  |  | am of River Kohra  |                              |
| e] Me                                | ethod of Sampling  |  |   | The second secon | 5, APHA  | 11 -15 (0/)  | 67                           |
| f] Sa                                | impling Environmental Conditi  | on                                       |   | Temp.  |  | Humidity (%)   | 67                           |
|                                      | etails of Sample Container (No   | . & Type of                              | Container)  | _  | Bottle (02)  |  |                              |
| -                                    | imple Quantity   |  |   | 2 Litre  |  |  |                              |
| 4                                    | imple Code   |  |   |  | Analysis   |  |                              |
| 4.4                                  | ample Condition on Receipt<br>ams required to be tested  |  |   |  | contract.  | 172  |                              |
| [k] Ite<br>[I] W                     | hether any specific Method of  | Test has be                              | en suggested  | No   |  |  |                              |
|                                      |  |  |   | 140  |  |  |                              |
| b                                    | y the customer   |  | 7.0.110.0.0.0.00250740.   | 28.11.   | 22   |  |                              |
| by<br>[m] Da                         | y the customer<br>ate of receiving the sample in   | Laboratory                               |   | 28.11.   | 22/01.12.22  |  |                              |
| by<br>[m] Da<br>[n] Ar<br><b>S</b> . | y the customer   | Laboratory                               |   | 28.11.<br>28.11.   |  |  | Result                       |
| m] Da<br>n] Ar                       | y the customer<br>ate of receiving the sample in<br>nalysis Start Date / Analysis C  | Laboratory<br>ompletion D                | ate   | 28.11.<br>28.11.   | 22 / 01.12.22<br>Tolerance Lim   |  | Result                       |
| m] Da<br>n] Ar<br>S.<br>No.          | y the customer<br>ate of receiving the sample in<br>nalysis Start Date / Analysis C  | Laboratory<br>ompletion D                | ate   | 28.11.<br>28.11.<br>f Test   | 22 / 01.12.22<br>Tolerance Lim<br>2296-1<br>For Class                                | 982  | Result                       |
| m] Da<br>n] Ar<br>S.<br>No.          | y the customer ate of receiving the sample in halysis Start Date / Analysis C Parameters   | Laboratory<br>ompletion D<br>Unit        | Method o  | 28.11.<br>28.11.<br>f Test   | 22 / 01.12.22<br>Tolerance Lim<br>2296-1<br>For Class<br>'A"                         | 982<br>For Class 'C'**   |                              |
| by<br>[m] Da<br>[n] Ar<br>S.<br>No.  | y the customer ate of receiving the sample in halysis Start Date / Analysis C Parameters  pH   | Laboratory<br>ompletion D<br>Unit        | Method of   | 28.11.<br>28.11.<br>f Test   | 22 / 01.12.22<br>Tolerance Lim<br>2296-1<br>For Class<br>'A'*<br>6.5 - 8.5           | 982<br>For Class 'C'**<br>6.5 – 8.5                                  | 7.33<br>91.0<br>204.0        |
| by<br>[m] Da<br>[n] Ar<br>S.<br>No.  | y the customer ate of receiving the sample in halysis Start Date / Analysis C Parameters  pH Total Suspended Solids  | Laboratory ompletion D Unit mg/l.        | Method of IS 3025 (Parties 1S 3025)                                     | 28.11.<br>28.11.<br>f Test<br>rt-11)<br>rt-17)<br>rt-16)   | 22 / 01.12.22  Tolerance Lim   | 982 For Class 'C'++ 6.5 - 8.5 Not Specified 1500 3.0                 | 7.33<br>91.0<br>204.0<br>1.7 |
| by<br>[m] Da<br>[n] Ar<br>S.<br>No.  | y the customer ate of receiving the sample in halysis Start Date / Analysis C Parameters  pH Total Suspended Solids Total Dissolved Solids                             | Laboratory ompletion D Unit mg/l. mg/l.  | IS 3025 (Par<br>IS 3025 (Par<br>IS 3025 (Par                            | 28.11.<br>28.11.<br>f Test<br>rt-11)<br>rt-17)<br>rt-16)<br>rt-44)   | 22 / 01.12.22  Tolerance Lim   | 982 For Class 'C'**  6.5 – 8.5 Not Specified  1500 3.0 Not Specified | 91.0<br>204.0<br>1.7<br>20.0 |
| [m] Da<br>[n] Ar<br><b>S.</b>        | pt the customer ate of receiving the sample in halysis Start Date / Analysis C Parameters  pH  Total Suspended Solids  Total Dissolved Solids  B.O.D. (3 days at 27°C) | Laboratory ompletion D Unit  mg/l. mg/l. | IS 3025 (Pa<br>IS 3025 (Pa<br>IS 3025 (Pa<br>IS 3025 (Pa<br>IS 3025 (Pa | 28.11.<br>28.11.<br>f Test<br>rt-11)<br>rt-17)<br>rt-16)<br>rt-44)   | 22 / 01.12.22  Tolerance Lim 2296-1  For Class 'A'* 6.5 - 8.5  Not Specified 500 2.0 | 982 For Class 'C'++ 6.5 - 8.5 Not Specified 1500 3.0                 | 7.33<br>91.0<br>204.0<br>1.7 |

SHIBESHW Digitally signed by SHIBESHWAR PRASAD AR PRASAD Date: 2022.12.19 18:03:40 +05'30'

Verified by: Technical Manager



Shreyasee Digitally signed by Shreyasee Prasad Prasad

Date: 2022.12.19 18:15:09 +05'30"

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- END OF TEST REPORT

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# TEST REPORT

| [a] Na             | ame and address of the Custo   | mer                     |   | M/s M/<br>P.O.: I                                 | tive Director<br>AJNAULIA SUGAI<br>Majhaulia<br>amparan – 845 4     | R INDUSTRIES PVT.   | LTD.                                  |
|--------------------|--|-------------------------|---|---|---|---|---------------------------------------|
| b] De              | etails of Sample   |                         |   |   | Sample  |   |                                       |
|                    | imple Collected by   |                         |   |   | TEST HOUSE  |   |                                       |
|                    | impling Location   |                         |   |   |   | stream of River Ko  | hra                                   |
|                    | ethod of Sampling  |                         |   |   | 5, APHA   | 6 Humidity (%)  | 67                                    |
| f] Sa              | ampling Environmental Condite tails of Sample Container (N                             | ion                     | (Container)   | Temp.   | Bottle (02)   | o Figuriality (70)  |                                       |
|                    | ample Quantity   | o, a Type of            | Container   | 2 Litre   |   |   |                                       |
|                    | ample Code   |                         | 2   | SW-42   | _   |   |                                       |
|                    | ample Condition on Receipt   |                         |   | Fit for   | Analysis  |   |                                       |
| k] Ite             | ems required to be tested  |                         |   | As per  | contract.   |   |                                       |
| by                 | hether any specific Method of<br>y the customer  |                         | een suggested   | No  |   |   |                                       |
| [m] Da             | ate of receiving the sample in   | Laboratory              |   | 28.11.  |   |   |                                       |
| [n] Ar             | Date of receiving the sample in La<br>Analysis Start Date / Analysis Com<br>Parameters |                         | Unit Method of  |   | 22 / 01.12.22   | 24 10   |                                       |
| S.                 | Parameters   | Unit                    | Method of   | Test  | Tolerance Lin<br>2296-  |   | Result                                |
|                    | Parameters   | Unit                    | Method of   | Test  |   |   | Result                                |
| S.<br>No.          | Parameters   | Unit                    | IS 3025 (Par  |   | 2296-   | 1982  | Result                                |
| S.<br>No.          |  |                         |   | t-11)   | 2296-<br>For Class 'A"  | 1982<br>For Class 'C'**   | 7.27                                  |
| S.<br>No.<br>1.    | рН   |                         | IS 3025 (Par  | t-11)<br>t-17)                                    | 2296-<br>For Class 'A"<br>6.5 - 8.5                                 | 1982<br>For Class 'C'++<br>6.5 – 8.5  | 7.27                                  |
| S. No.<br>1.<br>2. | pH Total Suspended Solids  | <br>mg/l.               | IS 3025 (Par  | t-11)<br>t-17)<br>t-16)                           | For Class 'A" 6.5 - 8.5 Not Specified                               | 1982<br>For Class 'C'++<br>6.5 – 8.5<br>Not Specified                                   | 7.27                                  |
| S. No.  1. 2. 3.   | pH Total Suspended Solids Total Dissolved Solids                                       | mg/l.                   | IS 3025 (Par<br>IS 3025(Par<br>IS 3025 (Par                               | t-11)<br>t-17)<br>t-16)<br>t-44)                  | 2296-<br>For Class 'A**<br>6.5 - 8.5<br>Not Specified<br>500.0      | 1982<br>For Class 'C'++<br>6.5 – 8.5<br>Not Specified<br>1500.0                         | 7.27<br>105.0<br>215.0                |
| No.  1. 2. 3. 4.   | pH Total Suspended Solids Total Dissolved Solids B.O.D. (3 days at 27°C)               | mg/l.<br>mg/l.<br>mg/l. | IS 3025 (Par<br>IS 3025(Par<br>IS 3025 (Par<br>IS 3025 (Par               | t-11)<br>t-17)<br>t-16)<br>t-44)                  | 2296-<br>For Class 'A* 6.5 - 8.5<br>Not Specified 500.0             | 1982<br>For Class 'C'++<br>6.5 – 8.5<br>Not Specified<br>1500.0<br>3.0                  | 7.27<br>105.0<br>215.0<br>1.6         |
| S.                 | pH Total Suspended Solids Total Dissolved Solids B.O.D. (3 days at 27°C) C.O.D.        | mg/l. mg/l. mg/l. mg/l. | IS 3025 (Par<br>IS 3025(Par<br>IS 3025 (Par<br>IS 3025 (Par<br>APHA (522) | t-11)<br>t-17)<br>t-16)<br>t-44)<br>0 B)<br>t-32) | 2296- For Class 'A" 6.5 - 8.5 Not Specified 500.0 2.0 Not Specified | 1982   For Class 'C'++   6.5 - 8.5     Not Specified   1500.0     3.0     Not Specified | 7.27<br>105.0<br>215.0<br>1.6<br>24.0 |

Digitally signed by SHIBESHWAR PRASAD SHIBESHW AR PRASAD Date: 2022,12,19 18:03:50 +05'30'

Verified by: Technical Manager



Shreyasee Digitally signed by Shreyasee Prasad Prasad

Date: 2022.12.19 18:15:21 +05'30" Authorized Signatory Quality Manager

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sthpatnal @vahoo co in ; info@shivatest.com

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







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#### TEST REPORT

| Re   | ef. No. STH/TR/22-23/3056   | Dt: 21.10   | .2022     | W. 38100001.14432                                    | ork Order No. V                         | VP/215/22  | Dt:     | 08.08.20 | 022   |  |  |
|--|---|---|-----------|--|---|--|---------|----------|-------|--|--|
| [a]  | Name and address of the Cu  | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |           |  |   |  |         |          |       |  |  |
| [b]  | Details of Sample   | Borewell Water Sample   |           |  |   |  |         |          |       |  |  |
| [c]  | Sample Collected by   | SHIVA TEST HOUSE on 11.10.22  |           |  |   |  |         |          |       |  |  |
| [d]  | Sampling Location   | Collected from Near ETP   |           |  |   |  |         |          |       |  |  |
| [e]  | Method of Sampling  | IS 3025 / APHA  |           |  |   |  |         |          |       |  |  |
| [f]  | Sampling Environmental Con  | Temp. (°C   | 1115. (0) |  |   |  | 69      |          |       |  |  |
| [g]  | No. & Type of Container   | Plastic Bottle (02)   |           |  |   |  |         |          |       |  |  |
| [h]  |   | Sample Quantity   |           |  |   | 2 Litres   |         |          |       |  |  |
| [i]  | Sample Code   |   |           |  | BW-3056                                 |  |         |          |       |  |  |
| [i]  |   |   |           |  | Fit for Analysis                        |  |         |          |       |  |  |
| [k]  |   |   |           |  | As per Contract                         |  |         |          |       |  |  |
| [I] Date of receiving the sample                   |   |   |           | 12.10.22   |   |  |         |          |       |  |  |
| [m] Analysis Start Date / Analysis Completion Date |   |   |           | 12.10.22 / 15.10.22<br>  Limit as per IS 10500: 2012 |   |  |         |          |       |  |  |
| S.N.   | Parameters  | Unit  | Method    | of Test  | Acceptable<br>Limit                     | Permissible Limit in the absence of alternative source |         | Results  |       |  |  |
| 1  | Colour  | C.U.  | IS 3025   | (Part-4)   | 5                                       | 15   |         | <5       | 5.0   |  |  |
| 2  | Odour   |   | IS 3025   | (Part-5)   | Agreeable                               | Agreeable  |         | Agre     | eable |  |  |
| 3  | Taste   |   | IS 3025   | (Part-7))  | Agreeable                               | Agreeable  |         | Agre     | eable |  |  |
| 4  | На  |   | IS 3025   | (Part-11)  | 6.5 to 8.5                              | No relaxation  |         | 7.       | 52    |  |  |
| 5  | Turbidity on NTU  |   | IS 3025   | (Part-10) 1.0 5.0                                    |   | 0  | .9      |          |       |  |  |
| 6  | Total Dissolved Solids (TDS)  | mg/l.   | IS 3025   | (Part-16)  | 500.0                                   | 200  | 0.00    | 25       | 2.0   |  |  |
| 7  | Total Hardness as CaCO <sub>3</sub>   | mg/l.   | IS 3025   | (Part-21)  | 200.0                                   | 60   | 0.0     | 18       | 2.0   |  |  |
| 8  | Calcium as Ca   | mg/l.   | IS 3025   | (Part-40)  | 75.0                                    | 20   | 0.0     | 46       | 6.5   |  |  |
| 9  | Magnesium as Mg   | mg/l.   |           | (Part-46)  | 30.0                                    | 10   | 0.0     | 16       | 6.0   |  |  |
| 10   | Iron as Fe  | mg/l.   |           | (Part-53)  | 1.0                                     | No rel   | axation | 0.       | 20    |  |  |
| 11   | Residual Free Chlorine  | mg/l.   |           | (Part-26)  | 0.2                                     |  | 1       | <0       | .01   |  |  |
| 21/20  | Total Alkalinity as CaCO <sub>3</sub>                                       | mg/l.   |           | (Part-23)  | 200.0                                   | 60   | 0.0     | 20       | 2.0   |  |  |
| 12   |   |   |           | (Part-32)  | 250.0                                   | 100  | 0.00    | 10       | 0.0   |  |  |
| 12   | Chloride as CI  | ma/l.   | 15 3025   | ( Fall-321   |   |  |         |          |       |  |  |
| 13   | 011101100 00  | mg/l.   |           |  | 200.0                                   | 40   | 0.0     | 20       | 0.1   |  |  |
|  | Chloride as CI<br>Sulphate as SO <sub>4</sub><br>Nitrate as NO <sub>3</sub> | mg/l.<br>mg/l.  | IS 3025   | (Part-24)<br>(Part-34)                               | 100000000000000000000000000000000000000 | (10.00   | 5791524 | 51727    | 0.1   |  |  |

SHIBESHW AR PRASAD Date: 2022.12.19 17:52:57 +05'30'

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Verified by: Technical Manager



Prasad

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

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# SHIVA TEST HOUSE



(Serving since 1988)

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#### TEST REPORT

| Ref. 1   | No. STH/TR/22-23/3   | 056(Mcb)              | Dt: 21.10.2022   | Your Work Order No. WP/215/22 Dt: 08.08.2022  |                 |                       |            |  |  |
|--|--|-----------------------|------------------|---|-----------------|-----------------------|------------|--|--|
| [a] N  | ame and address of t   | he Custome            | er               | Executive Director M/s MAJHAULIA SUGAR INDUSTRIES PVT. LTD. P.O.: Majhaulia W.Champaran – 845 454 |                 |                       |            |  |  |
| [b] D  | etails of Sample   | Borewell water sample |                  |   |                 |                       |            |  |  |
| [c] Sample Collected by                            |  |                       |                  | SHIVA TEST HOUSE on 11.10.22  |                 |                       |            |  |  |
| [d] Sampling Location                              |  |                       |                  | Collected from near ETP   |                 |                       |            |  |  |
| [e] Method of Sampling                             |  |                       | IS 1622          |   |                 |                       |            |  |  |
| [f] S  | ampling Environment  | al Condition          |                  | Temp (°c)   | 30              | Humidity (%)          | 69         |  |  |
| [g] N  |  |                       |                  | One Sterilized Glass Bottle   |                 |                       |            |  |  |
| [h] S  |  |                       |                  | 250 ml  |                 |                       |            |  |  |
| [i] S  | Sample Code  |                       |                  | BW-3056   |                 |                       |            |  |  |
| [j] S  | ample Condition on F   |                       | Fit for analysis |   |                 |                       |            |  |  |
| [k] It   | [k] Items required to be tested  |                       |                  |   | As per contract |                       |            |  |  |
|  | [I] Whether any specific Method of Test has been suggested by the customer |                       |                  |   | No              |                       |            |  |  |
| [m] Date of receiving the sample in Laboratory     |  |                       |                  | 12.10.22  |                 |                       |            |  |  |
| [n] Analysis Start Date / Analysis Completion Date |  |                       |                  | 12.10.22 / 13.10.22   |                 |                       |            |  |  |
| S.N  | . Parameters   | Unit                  | Method of Test   | Limit as per  |                 | Result                | s          |  |  |
| 1  | Total Coliform   | / 100 ml              | IS 1622:1981     | Shall not be detectable in 100 ml.  |                 | Not Detected / 100 ml |            |  |  |
| 2  | E. coli / 100 ml   |                       | IS 1622:1981     | Shall not be detectable in 100 Not Detected   |                 | Not Detected          | d / 100 ml |  |  |



Section In-Charge (Microbiology)

-- END OF TEST REPORT

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