

VSIL/MoEFCC/HYR-1 /2023-24/36/2499

Date:-05 Dec 2023

To
The Additional Principal Chief Conservator of Forests (Central)
MOEF & CC
Regional Office (Southern Zone)
Kendriya Sadan, IV Floor, E&F Wing
17th Main Road,
II Block Koramangala,
Bengaluru – 560034

Sir,

Sub :- Submission of the Half Year Report Reg...

Ref No :- J-11011/453/2009-IA-II(I) Dated 11 Jan 2019

For your kind perusal please find attached updated documents and reports to the environmental compliance conditions to the EC accorded to our Industry
“ Vishwaraj Sugar Industries Limited” vide above-reference number.

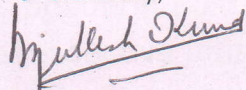
EC No and Date : J-11011/453/2009-IA-II(I) Dated 11 Jan 2019

Period of submission: 01 April 2023 to 30 September 2023

Copy Submitted to..

- 1) Mailed to MoEFCC RO office Bengaluru (RO “Z”)
- 2) KSPCB HO office Bengaluru
- 3) KSPCB RO office Chikkodi
- 4) CPCB RO office Bengaluru
- 5) District Magistrate Office Belagavi

Thanking You,
Your's faithfully,



Mukesh Kumar
(Executive Director)



Name of the Project : Vishwaraj Sugar Industries Limited
Environmental Clearance No & Date : J-11011/453/2009-IA-II(I) Dated 11 Jan 2019
Location District and State : Belagavi-Karnataka
Address for correspondence : Bellad-Bagevadi, Taluka-Hukkeri
Six Monthly Compliance Condition : Period of Submission 01 April 2023 to 30 September 2023

Compliance to the specific and general conditions mentioned in the environmental clearance accorded to our industry is as follows.

	Environmental Clearance Conditions	Compliance towards the conditions stipulated
Cond- Nos	<u>Specific Conditions:</u>	
01	All the specific conditions and general conditions specified in the EC accorded vide Ministry's letter no J-11011/48/2000-IA-II(I) dated 4 th May 2000 and SEIAA vide 19:IND:2007 Dated 16 th April 2008 shall be implemented.	Implemented.
02	Distillery unit shall be based on molasses and no grain based distillery unit shall be operated.	The organization has accepted and follows the conditions, we are using molasses/Syrup as raw material.
03	Efforts shall be made to reduce PM ₁₀ levels in the ambient air and a time bound action plan shall be submitted. As proposed, Electrostatic precipitator (ESP) along with stack of adequate height should be provided to boiler (100 TPH) to control particulate emission within 100mg/Nm ³ . Bag filter along with stack of adequate height should be provided to boiler (13 TPH) to control particulate emission within 100mg/Nm ³ . At no time the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Efficiency of pollution control	We have installed high performance electrostatic precipitator to our Chimney along with ventury type wet scrubber which reduces the air pollution and maintains the PM level well within the stipulated condition. Please find attached analysis reports of our unit at Annexure 1.

	device shall be monitored regularly; stack monitoring report shall be submitted to the Ministry's Regional Office at Bengaluru.	
04	The National Ambient Air Quality Emission standards issued by the Ministry's vide G S R No 826(E) dated 16 th November 2009 shall be followed.	The condition is being followed. Please find attached analysis reports In the Annexure 1.
05	In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling and conveyance of chemicals /materials, multi cyclone separator and water sprinkling system. Dust suppressions system including water sprinkling systems shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc, shall be confirmed to the limits prescribed by the KSPCB.	The factory has adopted fugitive dust mitigation and premises cleaning work. The road repair work is carried to avoid dust pollution. We are regularly maintaining the road to avoid dust nuisance.
06	Pucca Approach road to the project site to be constructed prior to the commencing construction activity of the main distillery so as to avoid fugitive emissions.	To avoid fugitive emissions the factory has developed its roads.
07	The gaseous emissions from DG Sets shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosed shall be provided to the DG sets to mitigate the noise pollutions.	The DG set has standard height as per CPCB guidelines.
08	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 respective regional office of MoEFCC the respective Zonal Office of CPCB and KSPCB. The levels of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and	The company has uploaded its environmental clearance conditions and updating periodically .The compliance to the conditions report is sent to the respective offices regularly. The company is regularly

	HC(Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.	analyzing its AAQ data on the display boards. Please find attached reports In the Annexure 1.
09	Company shall follow good management practices viz, collection of waste yeast sludge from fermentation section in a closed system and disposal, reduced volume of effluent by adopting strategic approaches , closed drains carrying spent wash to the treatment units , minimization of fugitive emissions from anaerobic treatment , proper collection and handling of excess sludge generated from the anaerobic and aerobic treatment units. Minimum retention of treated and untreated spent wash in the lagoon, effective composting of the spent wash by controlled effluent spraying through mechanical system to avoid spillage and over application, blending of sludge in correct proportion with press mud, properly finished compost and green belt development with suitable plantation in and around the treatment units to mitigate odor from the distillery unit.	The Industry has followed all the necessary measures to prevent the pollution. Additionally the ETP sludge is being given to the farmers, which is good source of all micronutrients. The factory has well developed green belt which will control the air pollution and mitigate the odor.
10	Total fresh water Requirement from the Ghtaprabha river shall not exceed 10 KL/KL of alcohol (ie.1000 m ³ /Day) for distillery , 800 m ³ /Day for sugar unit and 1105 m ³ /Day for cogeneration unit (64 MW) And prior permission for drawl of water shall be obtained from the concerned authorities. No ground water shall be used.	As per our Distillery expansion having EC No J-11011/453/2009-IA-II (I) dated 24 Nov 2011 and CFO No AW-332706 dated 08 Aug 2022 the industry is permitted to lift 2747 M ³ of fresh water .The factory don't have any bore well. Please find attached water lifting approval at Annexure 2
11	Spentwash generation should not exceed 10KL/KL of alcohol. Spent wash from the distillery (100	The distillery unit is operating in very well.

	<p>KLPD) will be treated in anaerobic digester followed by evaporation unit and bio composting. Spent lees effluent from the utilities and cogeneration unit should be treated in the norms prescribed by CPCB/KSPCB and recycle/reuse within factory premises. Domestic effluent shall be treated through septic tanks followed by anaerobic filter and treated effluent shall be used for gardening purpose.</p>	<p>parameters and producing spentwash well below 10KL/KL of alcohol.</p>
12	<p>Waste water generation from the sugar unit shall not exceed 100 liters per ton of cane crushed. Effluent from the sugar unit shall be treated in the effluent treatment plant comprising neutralization tank followed by two stage aeration system.</p>	<p>The Industry has very well maintained ETP plant and the sugar unit, the effluent being generated is not exceeding 100 liters per ton of cane.</p>
13	<p>As proposed no effluent from sugar, distillery and co-generation power plant shall be discharged outside the premises and zero discharge shall be adopted.</p>	<p>The effluent is being treating in the ETP and utilized for the green belt development. The industry has adopted zero water discharge policy.</p>
14	<p>Process effluent /any waste water shall not be allowed to mix storm water. Storm water drain shall be passed through guard pond.</p>	<p>We have well maintained water streams and there is no any mixing of storm water and effluent water. The storm water is being passed through the guard pond.</p>
15	<p>Spent wash shall be stored in impervious lagoon with HDPE lining as per CPCB guidelines and shall be kept in proper condition to prevent ground water pollution Storage capacity of spent wash lagoon shall not exceed 30 days.</p>	<p>The industry has well established Spentwash holding lagoons and are leak proof. The storage capacity is not exceeding 30 days.</p>

16	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area should be setup. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry .The ground water quality monitoring for pH, BOD COD ,Chloride, Sulphate and total dissolved solids should be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bangalore and KSPCB.	The Industry has installed adequate numbers of ground water quality monitoring stations by providing piezometers. Please find attached analysis report of piezometer at Annexure No 3
17	Bagasse storage shall be done in such a way that it does not get air born or fly around due to wind.	The bagasse storage yard is surrounded by permanent wall and which will avoid dust nuisance.
18	Company shall submit a copy of memorandum of Understanding (MoU) with coal supplier for imported coal to the Ministry's Regional Office at Bangalore.	The industry is using Indian Coal and not imported coal to our distillery boiler.
19	Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air born by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasse ash and coal ash shall be stored separately.	The factory is storing the boiler ash separately and avoiding the air born effects.
20	Fire fighting system shall be as per the OISD 117 norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting shall be made to control the alcohol storage tank.	The fire fighting system in the distillery is according with the standards. The industry has installed appropriate fire extinguishers at locations.

21	Risk assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry and its Regional Office at Bangalore within six months.	The industry is conducting regularly the risk assessment survey and attending the jobs at the earliest. In case any incidents are occurred the industry will report to the Ministry and concerned regional office at the time.
22	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 regular medical test records of each employee shall be maintained separately.	The industry is conducting regularly health checkup program and maintain record of each employee. At all appropriate locations the first aid box has been placed.
23	Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.	The Industry has well facility for the loading and unloading of the materials with good traffic management.
24	Green belt shall be developed be in 33% of plot area to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the DFO. Thick greenbelt with suitable plant species shall be developed around the proposed distillery to mitigate the odor problem.	The industry has the environmental awareness and accordingly built the green belt with suitable plant species. Please find attached annual plantation report at Annexure 4
25	All the commitments made during the Public Hearing \Public Consultation meeting held on 28 th January 2011 shall be satisfactory implemented and adequate budget provision shall be made accordingly.	The Industry has completed all the commitments made in the Public Hearing.
26	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking , mobile toilets, mobile sewage	The Industry has provided well accommodation to the construction labors with all basic facilities. Regularly

	treatment plant, safe drinking water, medical health care , crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	health checkup program is conducting and temporary cabins provided to the employees.
B	<u>General Conditions:</u>	
1	The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board.	We have complied the KSPCB conditions.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	We will not engage in further modification without approval from the MoEFCC and other statutory body.
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the Karnataka State Pollution Control Board (KSPCB)and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	According to the KSPCB concern we are testing the ambient air quality. Please find attached analysis report on Annexure No 1
4	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 shall conform to the standards prescribed under Environment (Protection) Act ,1986 Rules , 1989 viz. 75 dBA (day time) and 70 dBA (night time).	The Industry has mitigated all its equipment's with proper silencers and enclosures. The industry has maintained standard permitted levels of sound during day and night. Please find attached analysis report on Annexure No 1

5	The company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	The Industry has engaged in the rain water harvesting and provided rain water recharge pits and in excess water utilized to replace fresh water usages.
6	The company shall obtain Authorization for collection, storage and disposal of hazardous (Waste Management, Handling and Trans-boundary Movement) Rules, 2008 and its amendment time to time and prior permission from SPCB shall be obtained for disposal of solid \hazardous waste including boiler ash.	The factory has Hazardous waste handling and disposal permit and disposes accordingly. Please find attached authorization letter at Annexure No 5
7	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste water and storm water drains.	We have well maintained water streams and there is no any mixing of storm water and effluent water. The storm water is being passed through the guard pond.
8	Usage of Personnel Protection Equipment's by all employees \workers shall be ensured.	The Industry has provided PPE's to all its employees and time to time a health program is conducting.
9	Training shall be imparted to all employees on safety and health aspects of chemicals handling Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	The Industry has conducting regularly safety and health aspects of chemical handling and conducting medical examination of the employees.
10	The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted Ministry. All the recommendations made the EIA\EMP in respect of environmental	The organization has complied the environmental protection measures. The subjects relating to the EIA/EMP are implemented.

	management in risk mitigation measures and public hearing relating to the project shall be implemented.	
11	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.	The Industry is promoting in the CSR and accordingly constructed a newly tar road for the people connecting Gudas village to Bagevadi. The industry also supplying pure and clean drinking water to the nearby factory and running a primary school, high school and ITI collage. Factory has surveyed ground water and the report has been submitted.
12	The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment.	The company has taken measures to the community welfare measures in the project area. Rain water harvesting and ground water recharging pits were constructed at appropriate locations to increase ground water level. The treated water has been providing to the neighboring farmers. The Agronomy and storm water management plan is submitted to the RO office.
13	A separate Environment Management Cell equipped with fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	The Industry has a well experienced and qualified staff to environmental management monitoring functions.

14	The company shall earmark sufficient funds toward capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management \pollution control measures shall not be diverted for any other purpose.	The Industry has a separate fund for the management of environmental measures to mitigate the pollutions. Annually the industry spending the reserved fund in the maintenance of ESP, Wet-Scrubber and spentwash holding lagoons. Please find the expenditures at Annexure 6
15	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla parishad \Municipal corporation ,Urban local body and the local NGO, if any from whom suggestions\ representations, if any , were received while processing the proposal.	The Industry has completed all the suggestions and recommendations from concerned offices.
16	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e- mail) to the respective Regional Office of MoEF ,the respective Zonal Office of CPCB and the Karnataka State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on website of the company.	The Industry is submitting the six monthly reports on the status of compliance to all respective offices and following the compliances.
17	The environmental statement for each financial year ending 31 st March in Form-V as is mandated shall be submitted to the Maharashtra Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the Bangalore Regional Offices of MoEF by e-mail.	The environmental statement in form-V is submitting to the respective offices with all details within stipulated time. Please find attached form V at Annexure No 7

18	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of clearance letter are available with SPCB\Committee and may also be seen at Website of the Ministry at http://envior.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter , at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the shall be forwarded to the concerned Regional Office of the Ministry.	The industry has completed all the activities as informed in the environmental clearance report and the same has been informed to the public and circulated in the news papers.
19	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	The industry has informed the respective offices of the financial closure and final approval of the project.
8.0	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	The industry has accepted the conditions.
9.0	The Ministry reserves the right to stipulate additional conditions, if found necessary The company in a time bound manner will implement these conditions.	The industry has accepted the conditions.
10.0	The above conditions will be enforced, inter-alia under the provisions of the Water(Prevention & Control of Pollution)Act 1974, Air (Prevention & Control of Water Pollution) Act,1981, the Environment(Protection)Act 1986 Hazardous Wastes (Management and Handling) rules, 2003/2008 and the Public Liability Insurance Act,1991 along with their amendments and rules.	The industry has accepted the conditions.

Vishwaraj Sugar Industries Limited, Bellad-Bagewadi
Annexure 1
Test Reports



PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2023

AIR-F-005

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1269A/A-493A/07-23
Work Order No.	--
Report Date	08/08/2023
Name of Industry Address:	M/s. Vishwaraj Sugar Industries Ltd. Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	31/07/2023

PARTICULARS OF STACK

Stack Attached to	Boiler (10 & 12 TPH)
Stack Diameter (Meter)	0.90
Stack Height (Meter)	43.0
Stack Temperature (°C)	129
Stack Velocity of Flue Gases (m/s)	7.6
Stack Volume of Flue Gases (Nm ³ /hr)	12875
Type of Fuel	Biogas

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method used
Particulate Matter (PM)	27.2	100.0	mg/Nm ³	IS-11255 (Part 1) 1985 Reaffirmed-2019

Remark: --

Instrument used: - Polltech make Model PEM – SMK 10B, ID. No. PAPL/LAB/076

Instrument Calibration Due date: - 20/04/2024.

NS:-Not Specified

Pati
Analyst

H. Jaye
Reviewed by

P. S. L. L.
Authorized Signatory

----- End of test report -----



PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory
 Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)
 Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024
 ISO 9001 : 2015, ISO 45001:2018 Certified
 CIN : U73100MH1995PTC092502
 NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2023

AIR-F-002

TEST REPORT

AMBIENT AIR QUALITY MONITORING

Report No.	1269B/A-493B/07-23	Report Date	08/08/2023		
Work Order No.	--				
Name of Customer	M/s. Vishwaraj Sugar Industries Ltd.				
Address	Bellad-Begewadi -591305, (Tq) - Hukkeri, Dist - Belgaum.				
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019	Valid up to	16/10/2024		
Type of sampling	AAQM	24Hrs.	✓	WAQM	8 Hrs. -- 24 Hrs. --
Instrument used	RDS	✓	FDS		✓
	ID No.	PAPL/LAB/091		ID No.	PAPL/LAB/092
	Calibration Due Date	23/01/2024		Calibration due Date	01/03/2024
Date of Sampling	31/07/2023		Sample Ref. No.		
Location of sampling	Near Distillery Main Gate				
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.				

POLLUTION PARAMETERS					
Parameter	Result	Limit	Unit	Method	
Particulate Matter (PM _{2.5})	21.4	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)	
Particulate Matter (PM ₁₀)	53.7	100	µg/m ³	IS 5182(Part-23):2006,Reaffirmed-2017	
Sulphur Dioxide (SO ₂)	9.1	80	µg/m ³	IS 5182(Part-02):2001,Reaffirmed-2017	
Nitrogen Dioxide(NO ₂)	11.6	80	µg/m ³	IS 5182(Part-06):2006,Reaffirmed-2017	
HC Methane (CH ₄)	0.5	--	ppm	IS 5182(Part-21):2001	

Sampling Conditions	Rain	Moderate	Construction site near by	No
	Wind	No	Vehicular Activity	Yes

Remark:--

Note: This test report may not be produced in part or full, without the permission of this laboratory.
 This test report refers only to the sample submitted for the testing.

Patil
Analyst

Hidayat
Reviewed by

prakash
Authorized Signatory

----- End of test report -----

AIR-F-005

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1269A/A-493A/07-23
Work Order No.	--
Report Date	08/08/2023
Name of Industry Address:	M/s. Vishwaraj Sugar Industries Ltd. Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	31/07/2023

PARTICULARS OF STACK

Stack Attached to	Boiler (10 & 12 TPH)
Stack Diameter (Meter)	0.90
Stack Height (Meter)	43.0
Stack Temperature (^o C)	132
Stack Velocity of Flue Gases (m/s)	7.7
Stack Volume of Flue Gases (Nm ³ /hr)	12947
Type of Fuel	Biogas

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method used
Particulate Matter (PM)	25.7	100.0	mg/Nm ³	IS-11255 (Part I) 1985 Reaffirmed-2019

Remark: --

Instrument used: - Polltech make Model PEM – SMK 10B, ID. No. PAPL/LAB/076

Instrument Calibration Due date: - 20/04/2024.

NS:-Not Specified

Fati
Analyst

[Signature]
Reviewed by

[Signature]
Authorized Signatory

----- End of test report -----

TEST REPORT

AMBIENT AIR QUALITY MONITORING

Report No.	1186C/A-405C/05-23	Report Date	06/06/2023		
Work Order No.	--				
Name of Customer	M/s. Vishwaraj Sugar Industries Ltd.				
Address	Bellad- Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.				
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019	Valid up to	16/10/2024		
Type of sampling	AAQM	24Hrs.	√	WAQM	8 Hrs.
	RDS	√		FDS	√
Instrument used	ID No.	PAPL/LAB/049		ID No.	PAPL/LAB/044
	Calibration Due Date	10/06/2023		Calibration due Date	21/10/2023
Date of Sampling	29/05/2023		Sample Ref. No.		
Location of sampling	Near Sugar Main Gate				
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.				
POLLUTION PARAMETERS					
Parameter	Result	Limit	Unit	Method	
Particulate Matter (PM _{2.5})	25	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)	
Particulate Matter (PM ₁₀)	57	100	µg/m ³	IS 5182(Part-23):2006, Reaffirmed-2017	
Sulphur Dioxide (SO ₂)	06	80	µg/m ³	IS 5182(Part-02):2001, Reaffirmed-2017	
Nitrogen Dioxide (NO ₂)	08	80	µg/m ³	IS 5182(Part-06):2006, Reaffirmed-2017	
HC Methane (CH ₄)	0.2	--	ppm	IS 5182(Part-21):2001	

Sampling Conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	Yes

Remark: -

Note: This test report may not be produced in part or full, without the permission of this laboratory.
This test report refers only to the sample submitted for the testing.

FCH
Analyst

[Signature]
Reviewed by

[Signature]
Authorized Signatory

----- End of test report -----

TEST REPORT

AMBIENT AIR QUALITY MONITORING

Report No.	1186D/A-405D/05-23	Report Date	06/06/2023		
Work Order No.	--				
Name of Customer	M/s. Vishwaraj Sugar Industries Ltd.				
Address	Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.				
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019	Valid up to	16/10/2024		
Type of sampling	AAQM	24Hrs.	✓	WAQM	8 Hrs.
	RDS	✓		FDS	✓
Instrument used	ID No.	PAPL/LAB/050	ID No.	PAPL/LAB/040	
	Calibration Due Date	10/06/2023	Calibration due Date	28/02/2024	
Date of Sampling	29/05/2023		Sample Ref. No.		
Location of sampling	Near Distillery Main Gate				
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.				
POLLUTION PARAMETERS					
Parameter	Result	Limit	Unit	Method	
Particulate Matter (PM _{2.5})	29	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)	
Particulate Matter (PM ₁₀)	65	100	µg/m ³	IS 5182(Part-23):2006, Reaffirmed-2017	
Sulphur Dioxide (SO ₂)	10	80	µg/m ³	IS 5182(Part-02):2001, Reaffirmed-2017	
Nitrogen Dioxide (NO ₂)	12	80	µg/m ³	IS 5182(Part-06):2006, Reaffirmed-2017	
HC Methane (CH ₄)	0.6	--	ppm	IS 5182(Part-21):2001	

Sampling Conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	Yes

Remark: -

Note: This test report may not be produced in part or full, without the permission of this laboratory.
This test report refers only to the sample submitted for the testing.

Fatima
Analyst

[Signature]
Reviewed by

[Signature]
Authorized Signatory

----- End of test report -----

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1186A/A-405A/05-23
Work Order No.	--
Report Date	06/06/2023
Name of Industry Address:	M/s. Vishwaraj Sugar Industries Ltd. Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	29/05/2023
PARTICULARS OF STACK	
Stack Attached to	Boiler (70 & 80 TPH)
Stack Diameter (Meter)	Outside – 4.23m & Inner – 3.63m
Stack Height (Meter)	73.0
Stack Temperature (°C)	107
Stack Velocity of Flue Gases (m/s)	8.3
Stack Volume of Flue Gases (Nm ³ /hr)	247485
Type of Fuel	Bagasse

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method used
Particulate Matter (PM)	53	100.0	mg/Nm ³	IS-11255 (Part 1) 1985 Reaffirmed-2019

Remark: --

Instrument used: - Polltech make Model PEM – SMK 10B, Sr. No. PAPL/LAB/076

Calibration Due date: - 20/04/2024.

NS:-Not Specified

Portil
Analyst

Portil
Reviewed by

Portil
Authorized Signatory

----- End of test report -----

AIR-F-005

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	1186B/A-405B/05-23
Work Order No.	--
Report Date	06/06/2023
Name of Industry Address:	M/s. Vishwaraj Sugar Industries Ltd. Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	29/05/2023

PARTICULARS OF STACK

Stack Attached to	Boiler (10 & 12 TPH)
Stack Diameter (Meter)	0.9
Stack Height (Meter)	43.0
Stack Temperature (°C)	134
Stack Velocity of Flue Gases (m/s)	7.8
Stack Volume of Flue Gases (Nm ³ /hr)	13403
Type of Fuel	Biogas

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method used
Particulate Matter (PM)	33	100.0	mg/Nm ³	IS-11255 (Part 1) 1985 Reaffirmed-2019

Remark: --

Instrument used: - Polltech make Model PEM – SMK 10B, Sr. No. PAPL/LAB/076
Calibration Due date: - 20/04/2024.
NS:-Not Specified

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Analyst

PAPL
Reviewed by

P. S. L.
Authorized Signatory

----- End of test report -----

PAPL/FRM/064

TEST REPORT

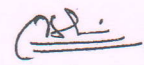
Report No.	: PAPL/EW-A2/05-23	Report Date	: 06.06.2023
Sample Ref No.	: 02A/EW-A2/05-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Distillery CPU Outlet	Sample Collected by	: Client
Date of test completion	: 05.06.2023	Date of sample Collection	: 29 May 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 30 May 2023

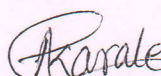
TEST RESULT

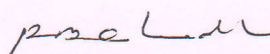
Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	8.19	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	51	mg/L	IS:3025 (P-58) 2006
3	BOD. (3 days at 27°C)	12	mg/L	IS:3025 (P-44) 2006
4	Total Suspended Solids	ND	mg/L	IS:3025 (P-17) 1984
5	Total Dissolved Solids	95	mg/L	IS:3025 (P-16) 1984
6	Chlorides	5	mg/L	IS:3025 (P-32) 1988
7	Sulphates	9	mg/L	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/L	IS:3025 (P-39) 1991

Remark:

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----- End of test report-----

TEST REPORT

Report No.	: PAPL/EW-A3/05-23	Report Date	: 06.06.2023
Sample Ref No.	: 03A/EW-A3/05-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Digester Inlet	Sample Collected by	: Client
Date of test completion	: 05.06.2023	Date of sample Collection	: 29 May 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 30 May 2023

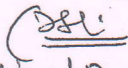
TEST RESULT

Sr. No.	Test Parameter	Result	Unit	Test Method
1)	pH @ 25 °C	3.88	-	IS:3025 (P-11) 1983
2)	Chemical Oxygen Demand	141910	mg/L	IS:3025 (P-58) 2006
3)	BOD. (3 days at 27°C)	59345	mg/L	IS:3025 (P-44) 2006
4)	Total Solids	211824	mg/L	APHA 22 nd Edition-2012, 2540 B
5)	Total Volatile Solids	117294	mg/L	APHA 22 nd Edition-2012, 2540-E, G
6)	Fixed Dissolved Solids	94530	mg/L	APHA 22 nd Edition-2012, 2540 C
7)	Chlorides	8615	mg/L	IS:3025 (P-32) 1988
8)	Sulphates	7169	mg/L	IS:3025 (P-24) 1986
9)	Phosphate	2602	mg/L	IS:3025 (P-31) 1988
10)	Calcium	2718	mg/L	IS:3025 (P-40) 1991
11)	Magnesium	892	mg/L	IS:3025 (P-46) 1994
12)	Sodium	1135	mg/L	IS:3025 (P-45) 1993
13)	Potassium	19700	mg/L	IS:3025 (P-45) 1993
14)	Total Kjeldahl Nitrogen	5671	mg/L	IS 3025 (Part-34)-1988 Reaff.2014

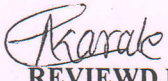
Remark:

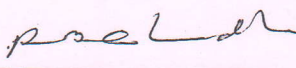
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----- End of test report-----

PAPL/FRM/064

TEST REPORT


Report No.	: PAPL/EW-A4/05-23	Report Date	: 06.06.2023
Sample Ref No.	: 04A/EW-A4/05-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Digester Outlet	Sample Collected by	: Client
Date of test completion	: 05.06.2023	Date of sample Collection	: 29 May 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 30 May 2023


TEST RESULT

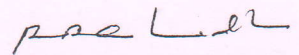
Sr. No.	Test Parameter	Result	Unit	KSPCB Standards	Test Method
1	pH @ 25 °C	8.23	-	---	IS:3025 (P-11) 1983
2	Alkalinity	7196	mg/l	> 6000	IS:3025 (P-23) 1986
3	Volatile Acids	3478	mg/l	< 3000	APHA 22 nd Edition-2012, 5560 C
4	Chemical Oxygen Demand	35108	mg/l	35000-50000	IS:3025 (P-58) 2006
5	B.O.D. (3 days at 27°C)	5185	mg/l	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	69943	mg/l	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	37136	mg/l	35000-45000	APHA 22 nd Edition-2012, 2540-E, G
8	Fixed Dissolved Solids	32807	mg/l	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	6545	mg/l	6000-8000	IS:3025 (P-32) 1988
10	Sulphates	4390	mg/l	4000-6000	IS:3025 (P-24) 1986
11	Phosphate	2702	mg/l	---	IS:3025 (P-31) 1988
12	Calcium	1435	mg/l	---	IS:3025 (P-40) 1991
13	Magnesium	564	mg/l	---	IS:3025 (P-46) 1994
14	Sodium	955	mg/l	---	IS:3025 (P-45) 1993
15	Potassium	12610	mg/l	11000-15000	IS:3025 (P-45) 1993
16	Total Kjeldahl Nitrogen	6379	mg/l	---	IS 3025 (Part-34)-1988 Reaff.2014

Remark:

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----- End of test report-----

PAPL/FRM/064

TEST REPORT

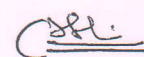
Report No.	: PAPL/EW-A1/05-23	Report Date	: 06.06.2023
Sample Ref No.	: 01A/EW-A1/05-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Distillery CPU Inlet	Sample Collected by	: Client
Date of test completion	: 05.06.2023	Date of sample Collection	: 29 May 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 30 May 2023

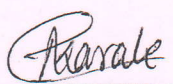
TEST RESULT

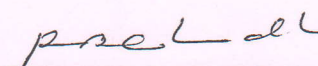
Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	8.23	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	2384	mg/L	IS:3025 (P-58) 2006
3	BOD. (3 days at 27°C)	1015	mg/L	IS:3025 (P-44) 2006
4	Total Suspended Solids	69	mg/L	IS:3025 (P-17) 1984
5	Total Dissolved Solids	312	mg/L	IS:3025 (P-16) 1984
6	Chlorides	52	mg/L	IS:3025 (P-32) 1988
7	Sulphates	25	mg/L	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/L	IS:3025 (P-39) 1991

Remark:

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----- End of test report-----

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

PAPL/FRM/064

TEST REPORT

Report No.	: PAPL/EW-A1/04-23	Report Date	: 11 April 2023
Sample Ref No.	: 01A/EW-A1/04-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Digester Inlet	Sample Collected by	: Client
Date of test completion	: 11 April 2023	Date of sample Collection	: 05 April 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 06 April 2023

TEST RESULT

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	3.95	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	1,37,480	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	57,152	mg/l	IS:3025 (P-44) 2006
4	Total Solids	2,04,769	mg/l	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	1,13,441	mg/l	APHA 22 nd Edition-2012, 2540-E, G
6	Fixed Dissolved Solids	91,328	mg/l	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	8540	mg/l	IS:3025 (P-32) 1988
8	Sulphates	7138	mg/l	IS:3025 (P-24) 1986
9	Phosphate	2591	mg/l	IS:3025 (P-31) 1988
10	Calcium	2430	mg/l	IS:3025 (P-40) 1991
12	Magnesium	805	mg/l	IS:3025 (P-46) 1994
13	Sodium	1094	mg/l	IS:3025 (P-45) 1993
14	Potassium	19,310	mg/l	IS:3025 (P-45) 1993
15	Total Kjeldahl Nitrogen	5609	mg/l	IS:3025 (P-34) 1988, Reaff.2014

Remark:

Note: This test report may not be produced in part or full, without the permission of this laboratory.
This test report refers only to the sample submitted for the testing.

Minal B.
ANALYSED BY

Abbreviations:-

Nithalsuo Patil
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AUTHORIZED SIGNATORY

----- End of test report -----

Serving for more than 35 years



PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2023

AIR-F-005

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	188A/A-47A/04-23
Work Order No.	--
Report Date	11/04/2023
Name of Industry Address:	M/s. Vishwaraj Sugar Industries Ltd. Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	04/04/2023

PARTICULARS OF STACK

Stack Attached to	Boiler (70 & 80 TPH)
Stack Diameter (Meter)	Outside – 4.23m & Inner – 3.63m
Stack Height (Meter)	73.0
Stack Temperature (°C)	113
Stack Velocity of Flue Gases (m/s)	8.5
Stack Volume of Flue Gases (Nm ³ /hr)	243952
Type of Fuel	Bagasse

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method used
Particulate Matter (PM)	63.0	100.0	mg/Nm ³	IS-11255 (Part 1) 1985 Reaffirmed-2019

Remark: --

Instrument used: - Polltech make Model PEM – SMK 10B, Sr. No. PAPL/LAB/077
Calibration Due date: - 31/08/2023.

Poti
Analyst

P. Sambhar
Reviewed by

P. Sambhar
Authorized Signatory

----- End of test report -----

'NANDAN' Plot No - 36, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

Tel : 022-2783 2532 / 2783 2817 Telefax : 022-2783 2818 E-Mail : paplturbhe@yahoo.co.in Web: www.padmajalab.com

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	188B/A-47B/04-23
Work Order No.	--
Report Date	11/04/2023
Name of Industry Address:	M/s. Vishwaraj Sugar Industries Ltd. Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	04/04/2023

PARTICULARS OF STACK

Stack Attached to	Boiler (10 & 12 TPH)
Stack Diameter (Meter)	0.90
Stack Height (Meter)	43.0
Stack Temperature (°C)	131
Stack Velocity of Flue Gases (m/s)	7.9
Stack Volume of Flue Gases (Nm ³ /hr)	13316
Type of Fuel	Biogas

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method used
Particulate Matter (PM)	37.0	100.0	mg/Nm ³	IS-11255 (Part 1) 1985 Reaffirmed-2019

Remark: --

Instrument used: - Polltech make Model PEM – SMK 10B, Sr. No. PAPL/LAB/077
Calibration Due date: - 31/08/2023.

PCH
Analyst

[Signature]
Reviewed by

[Signature]
Authorized Signatory

----- End of test report -----

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ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2023

PAPL/FRM/064

TEST REPORT

Report No.	: PAPL/EW-A2/04-23	Report Date	: 11 April 2023
Sample Ref No.	: 02A/EW-A2/04-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Digester Outlet	Sample Collected by	: Client
Date of test completion	: 11 April 2023	Date of sample Collection	: 5 April 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 6 April 2023

TEST RESULT

Sr. No.	Test Parameter	Result	Unit	KSPCB Standards	Test Method
1	pH @ 25 °C	8.09	-	---	IS:3025 (P-11) 1983
2	Alkalinity	7126	mg/l	> 6000	IS:3025 (P-23) 1986
3	Volatile Acids	3419	mg/l	< 3000	APHA 22 nd Edition-2012, 5560 C
4	Chemical Oxygen Demand	36920	mg/l	35000-50000	IS:3025 (P-58) 2006
5	B.O.D. (3 days at 27°C)	5247	mg/l	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	71502	mg/l	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	38177	mg/l	35000-45000	APHA 22 nd Edition-2012, 2540-E, G
8	Fixed Dissolved Solids	33325	mg/l	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	6732	mg/l	6000-8000	IS:3025 (P-32) 1988
10	Sulphates	4450	mg/l	4000-6000	IS:3025 (P-24) 1986
12	Phosphate	2794	mg/l	---	IS:3025 (P-31) 1988
13	Calcium	1490	mg/l	---	IS:3025 (P-40) 1991
14	Magnesium	585	mg/l	---	IS:3025 (P-46) 1994
15	Sodium	970	mg/l	---	IS:3025 (P-45) 1993
16	Potassium	12980	mg/l	11000-15000	IS:3025 (P-45) 1993
17	Total Kjeldahl Nitrogen	6412	mg/l	---	IS 3025 (Part-34)-1988 Reaff.2014

Remark:

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ANALYSED BY
Abbreviations:-

Minal B.
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Ashwini Karale
AUTHORIZED SIGNATORY

----- End of test report-----

'NANDAN' Plot No - 36, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

Tel : 022-2783 2532 / 2783 2817 Telefax : 022-2783 2818 E-Mail : paplturbhe@yahoo.co.in Web: www.padmajalab.com

TEST REPORT

AMBIENT AIR QUALITY MONITORING

Report No.	188C/A-47C/04-23	Report Date	11/04/2023		
Work Order No.	--				
Name of Customer	M/s. Vishwaraj Sugar Industries Ltd.				
Address	Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.				
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019	Valid up to	16/10/2024		
Type of sampling	AAQM	24Hrs.	✓	WAQM	8 Hrs. -- 24 Hrs. --
Instrument used	RDS	✓	FDS	✓	
	ID No.	PAPL/LAB/093	ID No.	PAPL/LAB/042	
	Calibration Due Date	15/04/2023	Calibration due Date	13/04/2023	
Date of Sampling	04/04/2023		Sample Ref. No.		
Location of sampling	Near Sugar Main Gate				
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.				
POLLUTION PARAMETERS					
Parameter	Result	Limit	Unit	Method	
Particulate Matter (PM _{2.5})	27.0	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)	
Particulate Matter (PM ₁₀)	62.0	100	µg/m ³	IS 5182(Part-23):2006, Reaffirmed-2017	
Sulphur Dioxide (SO ₂)	07.0	80	µg/m ³	IS 5182(Part-02):2001, Reaffirmed-2017	
Nitrogen Dioxide(NO ₂)	10.0	80	µg/m ³	IS 5182(Part-06):2006, Reaffirmed-2017	
HC Methane (CH ₄)	0.4	--	ppm	IS 5182(Part-21):2001	

Sampling Conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	Yes

Remark:--

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This test report refers only to the sample submitted for the testing.

Fatih
Analyst

[Signature]
Reviewed by

[Signature]
Authorized Signatory

----- End of test report -----

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 ISO 9001 : 2015, ISO 45001:2018 Certified
 CIN : U73100MH1995PTC092502
 NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2023

AIR-F-002

TEST REPORT

AMBIENT AIR QUALITY MONITORING

Report No.	188D/A-47D/04-23	Report Date	11/04/2023		
Work Order No.	--				
Name of Customer	M/s. Vishwaraj Sugar Industries Ltd.				
Address	Bellad-Begewadi -591305, (Tq) – Hukkeri, Dist – Belgaum.				
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019	Valid up to	16/10/2024		
Type of sampling	AAQM	24Hrs.	✓	WAQM	8 Hrs. -- 24 Hrs. --
Instrument used	RDS	✓	FDS	✓	
	ID No.	PAPL/LAB/050	ID No.	PAPL/LAB/092	
	Calibration Due Date	10/06/2023	Calibration due Date	24/02/2024	
Date of Sampling	04/04/2023		Sample Ref. No.		
Location of sampling	Near Distillery Main Gate				
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.				
POLLUTION PARAMETERS					
Parameter	Result	Limit	Unit	Method	
Particulate Matter (PM _{2.5})	31.0	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)	
Particulate Matter (PM ₁₀)	70.0	100	µg/m ³	IS 5182(Part-23):2006, Reaffirmed-2017	
Sulphur Dioxide (SO ₂)	11.0	80	µg/m ³	IS 5182(Part-02):2001, Reaffirmed-2017	
Nitrogen Dioxide(NO ₂)	13.0	80	µg/m ³	IS 5182(Part-06):2006, Reaffirmed-2017	
HC Methane (CH ₄)	0.7	--	ppm	IS 5182(Part-21):2001	

Sampling Conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	Yes

Remark:--

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Patil
Analyst

[Signature]
Reviewed by

[Signature]
Authorized Signatory

----- End of test report -----

Vishwaraj Sugar Industries Limited, Bellad-Bagewadi
Annexure 2
Water lifting Approval



Government of Karnataka

No.WRD/77 NIN 2022

Karnataka Government Secretariat,
Vikas Soudh, Bengaluru.
Date: 12-09-2022

From:
Additional Chief Secretary to Government,
Water Resources Department,

To:
The Managing Director,
Karnaaka Neravari Nigam Nyt.,
Coffee Board Building
Bengaluru. 560 001.

Sir,

Sub: Regarding renewal of licence for lifting of water from Ghataprabha River for industrial purpose in respect of M/s Vishwaraj Sugar Industries Ltd., Bellad Bagewadi, Tal. Hukkeri, Dist. Belagavi.

Ref: 1) your letter No. KNN/37(67)/TGC/2017-18/2021, Dated 11.07.2022.
2) Proceedings of 35th Video conversation of supply of water to the Industries presided by the Upper Principal Secretary, Water Resources Department.

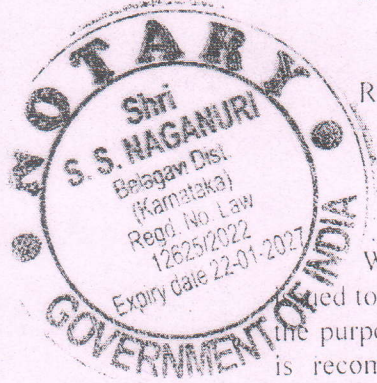
With reference to the cited subject and above reference letter (1), the licence is recommended to lift 21.89 MCFT (0.02189 T.M.C.) annually from the Ghataprabha River for the purpose of using the same for industrial purpose M/s Vishwaraj sugar Industries, is recommended for renewal of further 4 years from 22.07.2020 onwards i.e. 22.07.2020 to 21.07.2024. after obtaining the Indemnity Bond for making payment of difference amount as per the Stay Order dated 26.09.2019, by the Hon'ble High Court, Government of Karnataka; in respect of Shri Renuka Sugars, about the increase in the rate of water and till the appropriate direction / order to them; is submitted.

In this regard, the committee has recommended to renew the licence for lifting of 21.89 MCFT (0.02189 T.M.C.) water annually for the use of industrial purpose from Ghataprabha river, to M/s Vishwaraj Sugar Industries Ltd., Bellad Bagewadi, Tal. Hukkeri, Dist. Belagavi, from 22.07.2020 to 21.07.2025 (5 years) subject to condition that they would abide by all the terms and conditions vide the proceeding of the water distribution committee referred at (2) above.

I am directed to inform you that as per the recommendations of committee referred at (2) above, the proposal for renewal of licence for lifting of 21.89 MCFT (0.02189 T.M.C.) water annually for the use of industrial purpose from Ghataprabha river by M/s Vishwaraj Sugar Industries Ltd., Bellad Bagewadi, Tal. Hukkeri, Dist. Belagavi, for the period of 5 years i.e. from **22.07.2020 to 21.07.2025 (5 years)**, after obtaining the Indemnity Bond for making payment of difference amount as per the Stay Order dated 26.09.2019, by the Hon'ble High Court, Government of Karnataka; in respect of Shri Renuka Sugars, and subject to following conditions is approved.

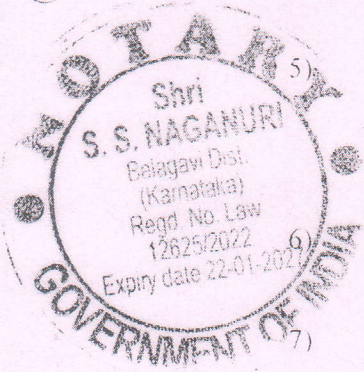
No. of Correction

Notary



CONDITIONS

- 1) M/s Vishwaraj Sugar Industries Ltd., Bellad Bagewadi, Tal. Hukkeri, Dist. Belagavi, shall lift 21.89 MCFT (0.02189 T.M.C.) water annually from Ghataprabha river and shall store the water at their own cost and use it.
- 2) If no water is available in the river, the Water Resources Department / Corporation cannot be held responsible.
- 3) In the upper side of the proposed water lifting source on account of establishment of other project/s causing scarcity of water, in such cases, the Water Resources Department / Corporation cannot be held responsible and the factory/institution shall not get any relief funds from the Government/Corporation.
- 4) The usage of water be should be got measured appropriately through the officers of the department / corporation and karkhane shall pay the water tax against the rates fixed for the water from time to time, to the Water Resources Department/Corporation and the karkhane shall bear the service charges fixed by the government or any other tax levied.
- 5) M/s Vishwaraj Sugars, after obtaining the Indemnity Bond for making payment of difference amount as per the Stay Order dated 26.09.2019, by the Hon'ble High Court, Government of Karnataka; till the appropriate directions/ order in respect of Shri Renuka Sugars, and continue their licence.
- 6) The quantity of usage of water, time to lift and the period for lifting of water be got confirmed from the Water Resources Department/Corporation.
- 7) Karkhane should be cautious that no disturbance / hindrance will be caused to the usage of water by the irrigation of lands coming downwards of this project. To drinking water projects and to any other presently water using projects etc. At any time for any use if the water is required at the downward projects, the karkhane shall let the water to these projects partially or fully unconditionally, in compliance of the order of Government or its representative/Corporation.
- 8) The licence is valid for 5 years. Therefore, if need be the licence should be got renewed.
- 9) If any problem occurs within a period of 5 years, without assigning any reasons the Government or it's representative may cancel this licence.
- 10) In continuation of the order of Krishna Tribunal II dated 29.11.2013. The Chief Engineer of the concerned area of operation/circle, in respect of total consumption of water distribution, shall calculate the distribution of water and consumption and current quantity of consumption/non consumption of the water shall get ascertained that the usage quantity for the purpose of irrigation, drinking water, industries and for other zones, is within the limits prescribed by the Tribunal.
- 11) The karkhane shall make use of water by constructing Rainwater Harvesting Method ponds, developing pot holes as to revive the ground water and use borewell water also in their own land for their proposed project.



no. of correction

Notary

- 12) Karkhane shall reprocess the used water through appropriate method and reuse such processed water.
- 13) By imbibing the appropriate modern technology in production of karkhane, it can reduce the quantity of water usage.
- 14) To obtain the necessary permission from KSPCB (Karnataka State Pollution Control Board) for the proposed project.
- 15) The Bulkflow meter should be installed to measure the quantity of water used by the karkhane. The said Bulkflow meter should be got calibrated every year and shall submit the calibration certificate to the Contract Authority of Water Resources Department without fail and shall submit daily and monthly consumption quantity of water to the Water Resources Department's Contract Authority.
- 16) Any disputes arising out of usage of water the karkhane/institution shall bear it's entire expenses and the decision of Water Resources Department shall be final.
- 17) The power generated from the Co-generation plant, should be supplied to K.P.T.C.L. grid without fail.
- 18) The industry consuming water conveyed through pipe lines shall ensure drinking water to the en route villages, wherever required.
- 19) Integrated use of water in all the units of the factory should be adopted and savings should be achieved and accounted for.
- 20) Industries Department has to examine whether the demand of water made by the factory/company/industry is responsible/justifiable and Commerce and Industries Department has to assess and certify the demand in each case.
- 21) The allotment and use of water by Industries will not effect the irrigation.
- 22) The allotment of water would be made mainly from the run off of the river during monsoon period only, so that the Industries can make their own storage arrangements to manage their requirement of water in the non-flow months.
- 23) The industry should have its own water re-cycling system and rain water harvesting system and thereby conserve water to the maximum possible extent so as to make use of the same, by adapting zero discharge methods as far as possible.
- 24) The proponents of the industry shall train local people and provide employment to these trained local youth and comply with the Government Policy of employment to local people as per the Dr. Sarojini Mahishi report and Industrial Policy of the State.
- 25) The industry should obtain necessary clearances as per the guidelines prescribed by the Ministry of Environment and Forest and the Pollution Control Board.

No. of Corrections

Notary

- 26) The industry shall undertake re-cycling of water to minimize usage of fresh water. After usage, the water should be treated as per pollution control norms, before letting it into the main river/stream.
- 27) In view of the constant Research & Developments, the industry should regularly upgrade the industry/plant by adapting the latest technologies for economizing the use of water and reduce its utilization of water in its industry/unit as much as possible.
- 28) The Chief Engineers shall ensure that the exact utilization of water by the allotted industries is measured and accounted for.
- 29) Commerce and Industries Department examine and standardize the requirement of water of various type of Industries based on new technology, conjunction use, recycling. Also the Commerce and Industries Department/Energy Department should certify the requirement of water to the Industry/Thermal Power Plant (coal based, gas based, biomass based including co-generation in sugarcane factories).
- 30) It should be got ascertained that the Water current meter, Water meter calibration details and concerned Water consumption Log Register, are imbibed and quantity wise information be furnished against the present water consumption for having paid the water charges.
- 31) The karkhane/Institution should execute the agreement duly incorporating all the above terms and conditions and shall execute and furnish the necessary Undertaking Bond to the Executive Engineer.
- 32) Violation of any of the above terms and condition the Water Resources Department has the right to rescind this permission without giving any prior intimation, at any time without assigning any reasons.

Yours faithfully,

Sd/-xx

(Veerendra K.)

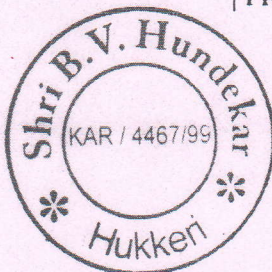
Under Secretary to the Government (Technical -4)
Water Resources Department

Copy for information. :

- 1) M/s Vishwaraj Sugars, Bellad Bagewadi, Tal. Hukkeri, Dist. Belagavi, 591 305.
- 2) Chief Engineer, Water Resources Development Organization, Anandrao Circle, Bengaluru.

of Correction

Notary



[TRANSLATED FROM KANNADA TO ENGLISH]

TRANSLATION FROM
KANNADA TO ENGLISH
VERIFIED FOUND CORRECT

ANJEEV. S. NAGANURI
B.Com.L.L.B. (Spl)

NOTARY & ADVOCATE

Notary Regd.

GOVERNMENT OF INDIA

Vishwaraj Sugar Industries Limited, Bellad-Bagewadi
Annexure 3
Piezo Meters

PAPL/FRM/064

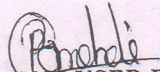
TEST REPORT

Report No.	: PAPL/EW-A1/08-23	Report Date	: 05.09.2023
Sample Ref No.	: 01A/EW-A1/08-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Piezometer No. 1 [East direction of the Compost Yard]	Sample Collected by	: Client
Date of test completion	: 05.09.2023	Date of sample Collection	: 28 August 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 29 August 2023

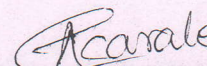
TEST RESULT

Sr. No.	Test Parameter	Result	Unit	IS:2296 Standards	Test Method
1	Color	< 5	Hazen	--	IS:3025 (P-4) 1983
2	Odor	Agreeable	--	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	7.91	--	6.5 - 8.5	IS:3025 (P-11) 1983
4	Turbidity	2.6	NTU*	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	270	mg/l	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	28	mg/l	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	< 4	mg/l	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	762	mg/l	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	179	mg/l	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	544	mg/l	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	138	mg/l	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	49	mg/l	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	124.7	mg/l	--	IS:3025 (P-45) 1993
14	Potassium (as K)	3.5	mg/l	--	IS:3025 (P-45) 1993
15	% Na (Max)	33	%	60	By Calculation
16	Sodium Absorption Ratio	2.32	---	26	By Calculation
17	Residual Sodium Carbonate	-5.58	meq/l	2.5	By Calculation
18	Electrical Conductivity	1381	µmhos/cm	2250	IS:3025 (P-14) 1984

Note: This test report may not be produced in part or full, without the permission of this laboratory.
This test report refers only to the sample submitted for the testing.


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TEST REPORT

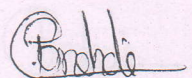
Report No.	: PAPL/EW-A2/08-23	Report Date	: 05.09.2023
Sample Ref No.	: 02A/EW-A2/08-23	Sampling plan / SOP	: -
Name of industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Piezometer No. 2 [West direction of the Compost Yard]	Sample Collected by	: Client
Date of test completion	: 05.09.2023	Date of sample Collection	: 28 August 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 29 August 2023

TEST RESULT

Sr. No.	Test Parameter	Result	Unit	IS:2296 Standards	Test Method
1	Color	< 5	Hazen	--	IS:3025 (P-4) 1983
2	Odor	Agreeable	--	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	7.90	--	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	2.4	NTU	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	259	mg/l	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	25	mg/l	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	< 4	mg/l	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	723	mg/l	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	174	mg/l	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	528	mg/l	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	122	mg/l	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	54	mg/l	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	121.4	mg/l	--	IS:3025 (P-45) 1993
14	Potassium (as K)	3.3	mg/l	--	IS:3025 (P-45) 1993
15	% Na (Max)	33.21	%	60	By Calculation
16	Sodium Absorption Ratio	2.3	---	26	By Calculation
17	Residual Sodium Carbonate	-5.42	meq/l	2.5	By Calculation
18	Electrical Conductivity	1295	µmhos/cm	2250	IS:3025 (P-14) 1984


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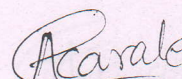


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TEST REPORT

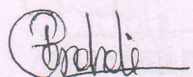
Report No.	: PAPL/EW-A3/08-23	Report Date	: 05.09.2023
Sample Ref No.	: 03A/EW-A3/08-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Piezometer No. 3 [South direction of the Compost Yard]	Sample Collected by	: Client
Date of test completion	: 05.09.2023	Date of sample Collection	: 28 August 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 29 August 2023

TEST RESULT

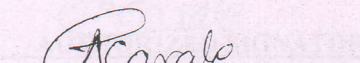
Sr. No.	Test Parameter	Result	Unit	IS:2296 Standards	Test Method
1	Color	< 5	Hazen	--	IS:3025 (P-4) 1983
2	Odor	Agreeable	--	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	7.93	--	6.5 - 8.5	IS:3025 (P-11) 1983
4	Turbidity	2.8	NTU	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	285	mg/l	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	30	mg/l	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	< 4	mg/l	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	835	mg/l	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	210	mg/l	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	590	mg/l	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	156	mg/l	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	48	mg/l	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	132.3	mg/l	--	IS:3025 (P-45) 1993
14	Potassium (as K)	3.7	mg/l	--	IS:3025 (P-45) 1993
15	% Na (Max)	32.72	%	60	By Calculation
16	Sodium Absorption Ratio	2.37	---	26	By Calculation
17	Residual Sodium Carbonate	-6.1	meq/l	2.5	By Calculation
18	Electrical Conductivity	1430	µmhos/cm	2250	IS:3025 (P-14) 1984

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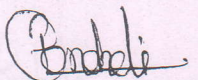
TEST REPORT

Report No.	: PAPL/EW-A4/08-23	Report Date	: 05.09.2023
Sample Ref No.	: 04A/EW-A4/08-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Piezometer No. 4 [North direction of the Compost Yard]	Sample Collected by	: Client
Date of test completion	: 05.09.2023	Date of sample Collection	: 28 August 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 29 August 2023

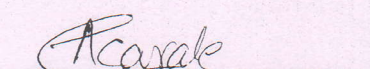
TEST RESULT

Sr. No.	Test Parameter	Result	Unit	IS:2296 Standards	Test Method
1	Color	< 5	Hazen	--	IS:3025 (P-4) 1983
2	Odor	Agreeable	---	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	7.57	--	6.5 - 8.5	IS:3025 (P-11) 1983
4	Turbidity	2.1	NTU	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	254	mg/l	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	23	mg/l	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	< 4	mg/l	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	668	mg/l	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	165	mg/l	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	490	mg/l	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	146	mg/l	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	31	mg/l	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	115.6	mg/l	--	IS:3025 (P-45) 1993
14	Potassium (as K)	2.7	mg/l	--	IS:3025 (P-45) 1993
15	% Na (Max)	33.66	%	60	By Calculation
16	Sodium Absorption Ratio	2.26	---	26	By Calculation
17	Residual Sodium Carbonate	-4.8	meq/l	2.5	By Calculation
18	Electrical Conductivity	1240	µmhos/cm	2250	IS:3025 (P-14) 1984

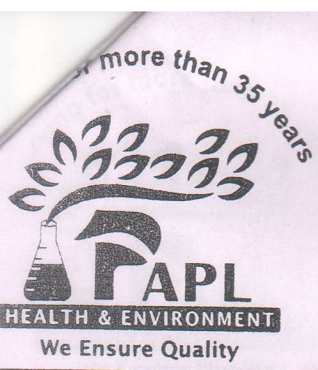
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PAPL

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 Public Testing Laboratory
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 ISO 9001 : 2015, ISO 45001:2018 Certified
 CIN : U73100MH1995PTC092502
 NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2023

PAPL/FRM/064

TEST REPORT

Report No.	: PAPL/EW-A5/08-23	Report Date	: 05.09.2023
Sample Ref No.	: 05A/EW-A5/08-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Piezometer No. 5 [Near Compost Yard Canal]	Sample Collected by	: Client
Date of test completion	: 05.09.2023	Date of sample Collection	: 28 August 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 29 August 2023

TEST RESULT

Sr. No.	Test Parameter	Result	Unit	IS:2296 Standards	Test Method
1	Color	< 5	Hazen	--	IS:3025 (P-4) 1983
2	Odor	Agreeable	---	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	8.05	--	6.5 - 8.5	IS:3025 (P-11) 1983
4	Turbidity	2.4	NTU	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	190	mg/l	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	18	mg/l	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	< 4	mg/l	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	435	mg/l	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	104	mg/l	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	294	mg/l	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	76	mg/l	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	25	mg/l	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	67.3	mg/l	--	IS:3025 (P-45) 1993
14	Potassium (as K)	4.2	mg/l	--	IS:3025 (P-45) 1993
15	% Na (Max)	32.94	%	60	By Calculation
16	Sodium Absorption Ratio	1.71	---	26	By Calculation
17	Residual Sodium Carbonate	-2.08	meq/l	2.5	By Calculation
18	Electrical Conductivity	738	µmhos/cm	2250	IS:3025 (P-14) 1984

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 Abbreviations:-

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TEST REPORT

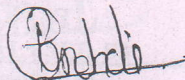
Report No.	: PAPL/EW-A6/08-23	Report Date	: 05.09.2023
Sample Ref No.	: 06A/EW-A6/08-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Piezometer No. 6 [Near Distillery Spentwash Lagoon 1]	Sample Collected by	: Client
Date of test completion	: 05.09.2023	Date of sample Collection	: 28 August 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 29 August 2023

TEST RESULT


Sr. No.	Test Parameter	Result	Unit	IS:2296 Standards	Test Method
1	Color	< 5	Hazen	--	IS:3025 (P-4) 1983
2	Odor	Agreeable	--	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	8.03	--	6.5 - 8.5	IS:3025 (P-11) 1983
4	Turbidity	2.7	NTU	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	295	mg/l	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	33	mg/l	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	< 4	mg/l	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	941	mg/l	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	284	mg/l	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	718	mg/l	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	204	mg/l	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	51	mg/l	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	141.3	mg/l	--	IS:3025 (P-45) 1993
14	Potassium (as K)	4.5	mg/l	--	IS:3025 (P-45) 1993
15	% Na (Max)	29.77	%	60	By Calculation
16	Sodium Absorption Ratio	2.29	---	26	By Calculation
17	Residual Sodium Carbonate	-8.55	meq/l	2.5	By Calculation
18	Electrical Conductivity	1560	µmhos/cm	2250	IS:3025 (P-14) 1984

Note: This test report may not be produced in part or full, without the permission of this laboratory.

This test report refers only to the sample submitted for the testing.


ANALYSED BY
Abbreviations:-


REVIEWED BY


AUTHORIZED SIGNATORY

----- End of test report-----

Living for more than 35 years



We Ensure Quality

PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.

Public Testing Laboratory

Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)

Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024

ISO 9001 : 2015, ISO 45001:2018 Certified

CIN : U73100MH1995PTC092502

NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2023

PAPL/FRM/064

TEST REPORT

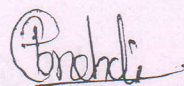
Report No.	: PAPL/EW-A7/08-23	Report Date	: 05.09.2023
Sample Ref No.	: 07A/EW-A7/08-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Piezometer No. 7 [Near Spentwash Lagoon Down Stream]	Sample Collected by	: Client
Date of test completion	: 05.09.2023	Date of sample Collection	: 28 August 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 29 August 2023

TEST RESULT

Sr. No.	Test Parameter	Result	Unit	IS:2296 Standards	Test Method
1	Color	< 5	Hazen	--	IS:3025 (P-4) 1983
2	Odor	Agreeable	---	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	8.18	--	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	2.9	NTU	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	325	mg/l	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	34	mg/l	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	< 4	mg/l	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	923	mg/l	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	306	mg/l	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	762	mg/l	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	206	mg/l	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	60	mg/l	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	147.3	mg/l	--	IS:3025 (P-45) 1993
14	Potassium (as K)	4.8	mg/l	--	IS:3025 (P-45) 1993
15	% TSS (Max)	29.45	%	60	By Calculation
16	Sodium Absorption Ratio	2.32	---	26	By Calculation
17	Residual Sodium Carbonate	-8.8	meq/l	2.5	By Calculation
18	Electrical Conductivity	1594	µmhos/cm	2250	IS:3025 (P-14) 1984

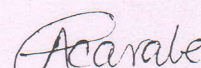
Note: This test report may not be produced in part or full, without the permission of this laboratory.

This test report refers only to the sample submitted for the testing.


ANALYSED BY

Abbreviations:-


REVIEWD BY


AUTHORIZED SIGNATORY

----- End of test report-----

'NANDAN' Plot No - 36, Sec-24, Near Bank Of India, Turbhe, Navi Mumbai - 400 705.

☎ : 022-2783 2532 / 2783 2817 Telefax : 022-2783 2818 E-Mail : paplturbhe@yahoo.co.in Web: www.padmaialab.com



PAPL

PADMAJA AEROBIOLOGICALS PVT. LTD.
 Public Testing Laboratory
 Recognised by Ministry of Environment Forest & Climate Change (MoEFCC)
 Gazette Notification No. S.O.3744(E) Valid upto : 16.10.2024
 ISO 9001 : 2015, ISO 45001:2018 Certified
 CIN : U73100MH1995PTC092502
 NABL Accreditation Certificate No. TC-5088 Valid upto 31.12.2023

PAPL/FRM/064

TEST REPORT

Report No.	: PAPL/EW-A8/08-23	Report Date	: 05.09.2023
Sample Ref No.	: 08A/EW-A8/08-23	Sampling plan / SOP	: -
Name of Industry	: Vishwaraj Sugar Industries Ltd.		
Address	: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
Name of Sample	: Piezometer No. 8 [Near Cane yard side]	Sample Collected by	: Client
Date of test completion	: 05.09.2023	Date of sample Collection	: 28 August 2023
Sample Quantity & condition	: 1 lit	Date of sample receipt	: 29 August 2023

TEST RESULT

Sr. No.	Test Parameter	Result	Unit	IS:2296 Standards	Test Method
1	Color	< 5	Hazen	--	IS:3025 (P-4) 1983
2	Odor	Agreeable	---	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	7.97	--	6.5 - 8.5	IS:3025 (P-11) 1983
4	Turbidity	2.4	NTU	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	255	mg/l	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	30	mg/l	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	< 4	mg/l	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	769	mg/l	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	190	mg/l	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	570	mg/l	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	155	mg/l	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	38	mg/l	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	119.3	mg/l	--	IS:3025 (P-45) 1993
14	Potassium (as K)	3.8	mg/l	--	IS:3025 (P-45) 1993
15	% Na (Max)	31.16	%	60	By Calculation
16	Sodium Absorption Ratio	2.17	---	26	By Calculation
17	Residual Sodium Carbonate	-6.31	meq/l	2.5	By Calculation
18	Electrical Conductivity	1405	µmhos/cm	2250	IS:3025 (P-14) 1984

Note: This test report may not be produced in part or full, without the permission of this laboratory.
 This test report refers only to the sample submitted for the testing.

[Signature]
 ANALYSED BY
 Abbreviations:-

[Signature]
 REVIEWD BY

[Signature]
 AUTHORIZED SIGNATORY

----- End of test report-----

Vishwaraj Sugar Industries Limited, Bellad-Bagewadi
Annexure 4
Green belt Report

Vishwaraj Sugar Industries Limited Bellad-Bagewadi

Green Belt

We have taken immense measures to protect the environment and accordingly built a very well green belt surrounding the organization. Every year we are celebrating the world environment day and conduct an awareness camp in the nearby villages and town ships.

We have total area of 531400 m² and Green belt of 175363 m² comprising of 33%.

SR. NO.	DESCRIPTION	SHOWN AS
1	PLOT BOUNDARY	
2	PARKING AREA	
3	GREENBELT AREA	
4	TREES	
5	PROPOSED AREA	

GREENBELT AREA CALCULATION		
SR. NO.	DESCRIPTION	AREA IN SQ. M
14	GB-14	4536.87
15	GB-15	2554.65
16	GB-16	6819.81
17	GB-17	2706.41
18	GB-18	3705.09
19	GB-19	7432.57
TOTAL		194239.70

GREENBELT AREA CALCULATION		
SR. NO.	DESCRIPTION	AREA IN SQ. M
1	GB-1	11426.87
2	GB-2	29969.16
3	GB-3	6577.42
4	GB-4	17732.34
5	GB-5	48456.51
6	GB-6	1479.20
7	GB-7	10411.57
8	GB-8	16670.19
9	GB-9	4026.00
10	GB-10	7373.86
11	GB-11	3613.35
12	GB-12	6615.29
13	GB-13	2126.88
TOTAL		118067.34

PARKING AREA CALCULATION		
SR. NO.	DESCRIPTION	AREA IN SQ. M
1	PARKING-1	27370.00
2	PARKING-2	14707.15
3	PARKING-3	6570.09
4	PARKING-4	2884.60
5	PARKING-5	1978.42
6	PARKING-6	1137.53
7	PARKING-7	1944.46
8	PARKING-8	19418.95
9	PARKING-9	9753.69
10	PARKING-10	1215.26
11	PARKING-11	755.88
12	PARKING-12	14526.62
13	PARKING-13	6631.53
14	PARKING-14 A+B	9173.16
TOTAL		118067.34

MAIN SUGAR FACTORY, COGENT & DISTILLER LEGEND

- 1 MILL HOUSE BUILDING AREA = 1728.0
- 2 EVAPORATION HOUSE = 1152.0
- 3 BOILING HOUSE = 1440.0
- 4 SUGAR HOUSE = 576.0
- 5 CLARIFICATION HOUSE = 240.0
- 6 WORKSHOP = 360.0
- 7 LIME & SULPHUR GODOWN = 400.0
- 8 15MW POWER HOUSE = 1000.0
- 9 22MW POWER HOUSE = 1200.0
- 10 70 TPH BOILER HOUSE = 1200.0
- 11 80 TPH BOILER HOUSE = 1200.0
- 12 ID FAN HOUSE = 450.0
- 13 STORE = 30.0
- 14 SECURITY OFFICE = 30.0
- 15 TIME OFFICE = 30.0
- 16 TOILET BLOCK = 60.0
- 17 SUGAR GODOWN I TO 5 nos = 5672.17
- 18 SUGAR GODOWN II TO 5 nos = 5672.17
- 19 OFFICE DISTILLARY = 7000.0
- 20 CO-GEN SPRAY POND = 2000.0
- 21 ETP = 2000.0
- 22 GUEST HOUSE = 1500.0
- 23 ADMINISTRATIVE OFFICE = 2000.0
- 24 WEIGH BRIDGE CABIN 2nos = 75.0
- 25 HOSPITAL BUILDING = 200.0
- 26 MOLASSES TANK (6nos) = 2703.31
- 27 CHILLER PLANT = 150.0
- 28 CARBON DIOXIDE PLANT = 143.0
- 29 CHILLER PLANT CO2 = 50.0
- 30 NATURAL ALC. VINEGAR PLA = 875.0
- 31 STORAGE TANK (4nos) = 200.96
- 32 DIGESTER TANK (2nos) = 1117.84
- 33 ETP SUGAR = 2000.0
- 34 IML UNIT = 1520.0
- 35 SPIRIT GODOWN = 1200.0
- 36 COAL SHED = 1200.0
- 37 SPENT WASH RETENTION TA = 656.0
- 38 TURBINE = 320.0
- 39 FERMANTATION UNIT = 2040.0
- 41 DISTILLING UNIT = 440.0
- 42 DISTILLING TOWER = 380.0
- 43 ETHANOL STORAGE = 2310.0
- 44 OFFICE DISTILLARY = 14246.0
- 46 LAGOONS = 905.0
- 47 DISTILLATION CPU = 120.0
- TOTAL BUILT UP AREA = 65950.28 sq.m.**

LAND AREA STATEMENT

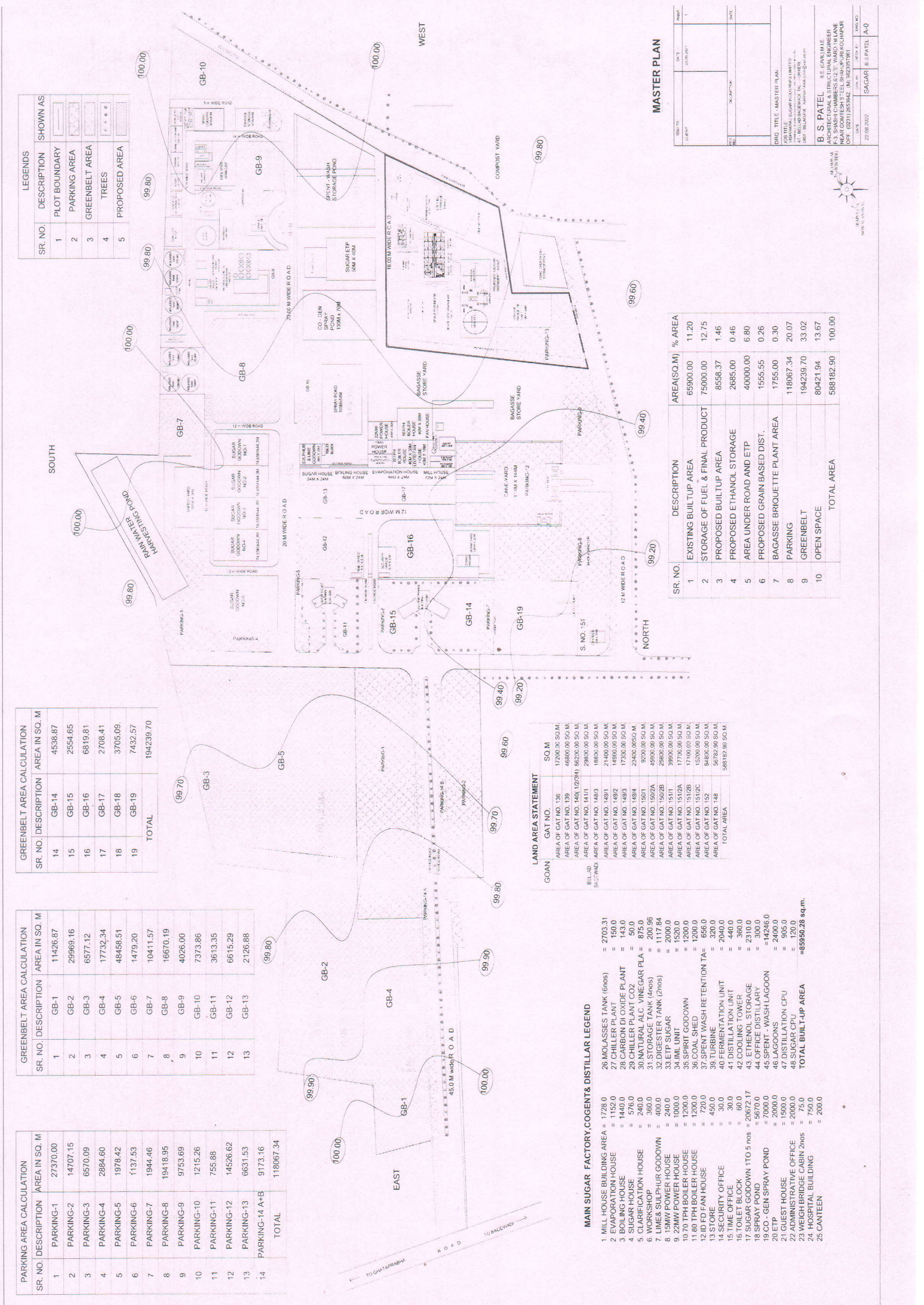
GAT NO.	SO. M
AREA OF GAT NO. 136	17308.30 SQ. M
AREA OF GAT NO. 138	14690.00 SQ. M
AREA OF GAT NO. 140 (2/24)	9520.00 SQ. M
AREA OF GAT NO. 141	29830.00 SQ. M
AREA OF GAT NO. 143	18930.00 SQ. M
AREA OF GAT NO. 149	21400.00 SQ. M
AREA OF GAT NO. 152	17100.00 SQ. M
AREA OF GAT NO. 154	23400.00 SQ. M
AREA OF GAT NO. 152/2A	48300.00 SQ. M
AREA OF GAT NO. 152/2B	25800.00 SQ. M
AREA OF GAT NO. 151/1	39900.00 SQ. M
AREA OF GAT NO. 151/2A	17700.00 SQ. M
AREA OF GAT NO. 151/2B	17100.00 SQ. M
AREA OF GAT NO. 151/2C	15200.00 SQ. M
AREA OF GAT NO. 152	84900.00 SQ. M
AREA OF GAT NO. 148	56782.96 SQ. M
TOTAL AREA	588182.90 SQ. M

SR. NO.	DESCRIPTION	AREA(SQ.M)	% AREA
1	EXISTING BUILT UP AREA	65900.00	11.20
2	STORAGE OF FUEL & FINAL PRODUCT	75000.00	12.75
3	PROPOSED BUILT UP AREA	8558.37	1.46
4	PROPOSED ETHANOL STORAGE	2685.00	0.46
5	AREA UNDER ROAD AND ETP	40000.00	6.80
6	PROPOSED GRAIN BASED DIST.	1555.55	0.26
7	BAGASSE BRIQUETTE PLANT AREA	1755.00	0.30
8	PARKING	118067.34	20.07
9	GREENBELT	194239.70	33.02
10	OPEN SPACE	80421.94	13.67
TOTAL AREA		588182.90	100.00

MASTER PLAN

DATE	22.08.2022
CLIENT	SAGAR B SPATEL A-0

DRG. TITLE: MASTER PLAN
 PROJECT: SUGAR FACTORY, COGENT & DISTILLER
 AT BELUR, BELUR TALUK, CHANNarayana DISTRICT, KARNATAKA
 PREPARED BY: B. S. PATEL
 ARCHITECTURAL & STRUCTURAL ENGINEER
 REG. NO. 48342, BELUR, CHANNarayana DISTRICT, KARNATAKA
 OFF. (0231) 2653842, (M) 982957981



Plantation (Plantation Details during the year 2022-23)

Sl No	Name of the trees	Number planted
1	Bougainvillea	58
2	Coconut	30
3	Kanagale	30
4	Teak	45
5	Akesia	78
6	Daswal	14
7	Simorobha	44
8	Custard Apple	36
9	Peru	45
10	Lemon	33
11	Hibiscus	94
12	Bottle Brush	47
13	Sandal	74
14	Mango	31
15	Neem	47
16	Tamarind	61
17	Pongamia	108
18	Chikku	24
19	Koliyas	55
20	Almond	52
21	Hebbat	27
22	Sivani	36
23	Honni	65
24	Sisavi	74
25	Casuarina	81
26	Silver Oak	44
27	Sisama	74
28	Hameliya	91
29	Jakrapa	44
TOTAL		1542

The plantation work is continued.

Vishwaraj Sugar Industries Limited, Bellad-Bagewadi
Annexure 5
Hazardous Authorization Report



Form 2 -[Rule 6(2)] Authorization under
Hazardous & Other Wastes [Management
& Transboundary Movement]Rules,2016

KARNATAKA STATE POLLUTION CONTROL
BOARD Plot No-3224/3, "Hanuman
Nivas", 1st Floor, B.K.College
Road,Chikkodi-591201 Tele No:08338-
275112

Authorization No: H-121963 Valid upto: 30/06/2026

(This document contains 3 pages excluding annexure)

Authorization No: H-121963

PCB ID: 10661

Date: 06/01/2023

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

1. Authorization application submitted by the industry/organization on 06/01/2023 at Regional Office.
2. Profile approved by Regional Office Belgaum (Chikkodi)
3. Proprietor of Vishwaraj Sugar Industries Ltd. is hereby granted an authorization for Generation, Selection, Reception, Storage, Transport or any other use of hazardous or other wastes or both on the premises situated at the location address: Sy no 136, 139, 140:1, 140:2, 140:3,140:4,141:1, 148 :3, 149 Industrial Area:Not In I.A Taluk:Hukkeri District:Chikkodi

Details of Authorization:

Category of Hazardous waste as per the Schedule I,II & IV of these rules	Description of Hazardous Waste	Quantity/Annum Unit	Authorized Mode of Disposal or recycling or utilization or co-processing, etc.,
I	5.1~Used Spent Oil	0.523 KLT	Shall be collected in leak proof containers and disposed to KSPCB authorized Re-processors/ Incinerator.
I	5.2~Wastes Residues Containing Oil	0.800 MTA	Shall be collected in leak proof containers and disposed to KSPCB authorized Re-processors/ Incinerator.

The authorization shall be valid for a period upto 30/06/2026

A. General Conditions of authorization:

- The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules made there under.
- The authorization or its renewal shall be produced for inspection at the request of an Officer authorized by the Karnataka State Pollution Control Board.
- The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes and other wastes except what is permitted through this authorization and without obtaining prior permission of the KSPCB.
- Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
- The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
- The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty".



Form 2 -[Rule 6(2)] Authorization under
Hazardous & Other Wastes [Management
& Transboundary Movement]Rules,2016

KARNATAKA STATE POLLUTION CONTROL
BOARD Plot No-3224/3, "Hanuman
Nivas", 1st Floor, B.K.College
Road,Chikkodi-591201 Tele No:08338-
275112

Authorization No: H-121963 Valid upto: 30/06/2026

(This document contains 3 pages excluding annexure)

- It is the duty of the authorized person to take prior permission of the Karnataka State Pollution Control Board to close down the facility.
- The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
- 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.
- An application for the renewal of an authorization shall be made '**3' months** before the date of expiry.
- The Person authorized shall bring to the notice of the Board, if any increase in quantity, change in category and handling operation. In such cases, the authorized Person has to obtain fresh authorization.
- Karnataka State Pollution Control Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of this authorization or to suspend or cancel this authorization.
- The Person authorized shall take steps for reduction and prevention of the waste generated or for recycling or reuse.
- The authorized person shall maintain the records at site in Form-3 and shall submit the annual returns in Form-4 within 30th June every year for the Period April to March and manifest in Form-10.
- The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- The hazardous and other waste which gets generated during recycling or reuse or recovery or per-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- The transportation of hazardous waste shall have to be carried out only through registered/authorized vehicles meant for transportation of hazardous waste.
- The Person Authorized shall not store the Hazardous Waste more than ninety days as per Rule 8 (1).
- The Person Authorized shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
- Display Boards: The person authorized shall display sign boards at the storage site as "Hazardous Waste Storage Site" and "Danger" and the site shall be provided with accident preventive measures.

Additional Conditions:

General Conditions - are not applicable.

Regional Officer
For and on behalf of the
Karnataka State Pollution Control Board

This is Computer generated Authorization Order.

To
The Occupier,
Vishwaraj Sugar Industries Ltd.
Sy no 136, 139, 140:1, 140:2, 140:3,140:4,141:1, 148 :3, 149:1, 149:2, 149:3,149

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office, for information and to inspect the industry within 15 days of time.
2. Master copy (Dispatch).
3. Office copy.



Form 2 -[Rule 6(2)] Authorization under
Hazardous & Other Wastes [Management
& Transboundary Movement]Rules,2016

**KARNATAKA STATE POLLUTION CONTROL
BOARD**Plot No-3224/3, "Hanuman
Nivas", 1st Floor, B.K.College
Road,Chikkodi-591201Tele No:08338-
275112

Authorization No: H-121963 Valid upto: 30/06/2026

(This document contains 3 pages excluding annexure)

Vishwaraj Sugar Industries Limited, Bellad-Bagewadi
Annexure 6
Environmental Management Plan/Investment

Vishwaraj Sugar Industries Limited Bellad-Bagewadi
Environmental Monitoring / Protection

Details of the Year wise expenditure incurred for environmental safeguard and the activities undertaken.

Year	Fund Allocated in Rs.Crore	Actual Expenditure in Rs. Crore	Item equipped as per EMP
2000-01	1.50	1.50	Anaerobic Digester
2001-02	1.00	1.20	Construction of compost yard (Now it is in use)
2005-06	4.00	3.50	Sugar Factory Effluent Treatment Plant
2005-06	1.00	0.80	Concrete chimney of 73m length
2005-06	0.80	0.60	For the installation of wet scrubber for fly ash control
2009-10	1.20	1.10	For the installation of ESP
2011-12	4.50	4.50	For the construction of concrete compost yard and renovation of the anaerobic digester
2012-13	1.00	1.00	For the construction of lined lagoon1
2013-14	1.20	1.20	For the construction of lined lagoon2
2014-15	1.00	0.95	For the construction of excess Condensate Polishing unit
2015-16	0.10	0.15	For the installation of online monitoring system for Sugar factory effluent
2016-17	0.05	0.05	For the installation of Online monitoring system for stack emission in distillery boiler
2016-17	0.03	0.03	For the installation of IP camera and flow meter in compost yard
2017-18	0.15	0.15	Repair work of compost yard (Patch work)
2018-19	4.5	4.30	Installation of New Bio digester(CSTR)
2018-19	1.30	1.10	Erection of Distillery CPU Plant
2018-19	4.50	4.20	Modification of MEE Plant
2019-20	1.0	0.96	Modification of Old Bio digester into CSTR
2019-20	0.20	0.19	Repairing and metalled roads to avoid dust emission.
2020-21	0.50	0.40	Construction of Dyke wall towards spentwash lagoons as a safeguard. The work is still in progress.
	Till Now	27.88 Crores	

- 1) As an environmental protection Every year we are spending about 10-15 lakhs rupees (Water dispensing through vehicles) for the greenery development towards surrounding factory and hill plantation.
- 2) Every year we are spending about 5-10 lakhs rupees to service and maintain the ESP (Electro Static Precipitator) and Wet scrubbers to further control emission and avoid pollution.
- 3) For the shifting of solid waste such as Pressmud, Compost and Boiler ash we are utilising covered vehicles to avoid dust nuisance and for which are spending about 15 to 20 lakhs every season.
- 4) To build a healthier working environment and hence workplace our Industry is conducting health camps for its employees and spending towards their treatments and PPE's

Vishwaraj Sugar Industries Limited, Bellad-Bagewadi
Annexure 7
Environmental Statement

VSL
Vishwaraj Sugar
Industries Ltd.

CIN : L85110KA1995PLC017730

VSL/ENV/Form V/2022-23/27/1799

25 Sep 2023

To
The Environmental Officer
Regional Office: Belagavi-2
Karnataka State Pollution Control Board,
Plot No-3224/3, "Hanuman Nivas",
1st Floor, B K Collage Road, Chikkodi,
Belagavi District-591201,

Sir,

*Subject: - Submission of the Environmental statement in Form V of the year 2022-23
Reg...*

Please find attached environmental statement in the prescribed format of Form V of our Industry "Vishwaraj Sugar Industries Limited" Bellad -Bagewadi of the season 2022-23.

Thanking You,
Your's Faithfully,



Prithvi Katti
(Chief Operating Officer)



Environmental Statement Form - V

(See rule 14)

Environmental Statement for the financial year ending on 31st March 2023**Part - A**

01	Name and address of the Owner / Occupier of the Industry. . Operation or Process	Mr. Mukesh Kumar Executive Director Vishwaraj Sugar Industries Limited., Bellad-Bagewadi - 591 305 Tal: Hukkeri Dist: Belgaum		
02	Industry Category Primary (STC code) Secondary (STC code)	Red		
03	Production Category - Units.	Production	Units	Capacity
		Sugar Cane Crushing	TCD	11000
		Co-Generation	MW hr	39
		Distillery --- R S	KLPD	100
		ENA	KLPD	30
		Anhydrous Ethanol	KLPD	96
		IML Bottling	Boxes/Day	5000
		Natural Alcohol Vinegar	KLPD	75
		Carbon di Oxide Plant	MTPD	15
04	Year of Establishment	Distillery	2001	
		Sugar Unit	2006	
		Co-Generation Plant	2006	
		IML Bottling	2008	
		Natural Alcohol Vinegar	2013	
		Carbon di Oxide Plant	2014	
05	Date of last Environmental Statement submitted	September 2022		

Part - B**Water and Raw Material Consumption****1. Water consumption in cum/day**

Sr No	Operation	During the previous year 2021-22	During the current Financial year 2022-23
Sugar			
01	Process	190	250
02	Domestic	20	40
Co-Generation			
01	Cooling and Boiler feed	250	400
Distillery			
01	Process	370	400
02	Cooling	70	200
03	Domestic	10.0	20

IML Bottling (Lease)			
01	Process	43	43
Natural Alcohol Vinegar			
01	Process	210	210
03	Domestic	0.5	0.5

2. Process Water Consumption per product output

SR No	Name of Product	Unit	Process water consumption per unit of product	
			During previous F/Y 2021-22	During current F/Y 2022-23
01	Sugar	m3/Ton	0.28	0.38
02	Power	m3/MW	0.34	0.51
03	Distillery	m3/KL	4.10	5.2
04	IML Bottling	m3/Box	0.00863	0.086
05	Vinegar	m3/KL	4.13	6.25

Raw Material Consumption

Sr No	Name of Raw Material	Units	Consumption of Raw Material Per Unit of output	
			2021-22	2022-23
Sugar				
01	Sugar cane	MT/MT	10.93	11.82
02	Lime	MT/MT	0.00129	0.00075
03	Sulphur	MT/MT	0.00017	0.00014
04	Mill Sanitation	MT/MT	0.0000103	0.0000114
05	Magnaflock	MT/MT	0.00004160	0.0000043
06	Turkey red oil	MT/MT	0.00000914	0.000017
07	Viscosity reducer	MT/MT	0.0000190	0.0000015
08	Color Coagulant	MT/MT	0.0000534	0.0000034
09	Bleaching Powder	MT/MT	0.0000594	0.0000200
10	Caustic Soda	MT/MT	0.0001288	0.0001772
Cogen power/unit				
01	Bagasse	MT/Mwh	2.60	2.80
02	Coal	MT/Mwh	Nil	Nil
Distillery				
01	Molasses B Heavy	MT/KL	3.17	3.16
	Syrup	MT/KL	3.30	3.34
02	Coal	MT/KL	0.6049	0.5203
IML Bottling				
01	Rectified Spirit	KL/Box	Nil	Nil
Natural Alcohol Vinegar				
01	Spirit	KL/KL	0.122	0.119

Note:

The IMFL unit is given on lease basis. ENA is purchased by the lessee from outside. The leaser gives only DM water.

Part - C**Pollution discharged to Environment/unit of output**

Sl No	Pollutants	Quantity of pollutants Discharged	Concentration Discharged (mass/volume)	Percent of variation prescribed standard with reasons
Sugar				
01	Sugar ETP outlet Wastewater(COD)	61.2 kg of COD/Day	85 mg/lit	Below Standard norms.(250 mg/l for COD & 100 mg/l for BOD)
	Wastewater(BOD)	24.5 kg of BOD/Day	34 mg/lit	
02	Sugar CPU Outlet Wastewater(COD)	96kg of COD/Day	40 mg/lit	Below Standard norms.(250 mg/l for COD & 100 mg/l for BOD)
	Wastewater(BOD)	43 kg of BOD/Day	18 mg/lit	
03	Air mg/Nm ³ (PM)	531.3 Kg/day	70 mg/Nm ³	Below Standard norms(< 100 mg/Nm ³)
Distillery				
01	Distillery CPU Outlet Wastewater(COD)	30.0 kg of COD/Day	50 mg/lit	Below Standard norms.(250 mg/l for COD & 100 mg/l for BOD)
	Wastewater(BOD)	12.6 kg of BOD/Day	21 mg/lit	
02	Air mg/Nm ³ (PM)	20.65 kg/day	50 mg/Nm ³	Below Standard norms(< 100 mg/Nm ³)
IML Bottling				
01	Waste Water	--	--	No Production

Part - D**HAZARDOUS WASTES**

As specified under Hazardous wastes
(Management and Handling Rules, 1989)

Sl No	Hazardous Wastes	Total Quantity (Tones)	
		During the previous year 2021-22	During the current Financial year 2022-23
01	From Process	--	0.02
02	From Pollution Control Facilities	(5.1 spent oil) =0.4 MT	0.28

Part - E**SOLID WASTES**

Sl No	Solid wastes	Total Quantity in MT	
		During the previous Financial year 2021-22	During the current Financial year 2022-23
01	From Process (By-Products)		
	Bagasse	311120.69	297791.5

	Press mud	31449.26	31675.4
	Ash	4666.81	4466.0
02	From Pollution Control Facilities		
	Biological Sludge (MT)	115	95
	Oil and Grease (MT)	0.4	0.3
03	Quantity recycled or reutilized within the unit		
	Bagasse as Fuel (MT)	254342	297791.5
	Press mud for compost (MT)	31405.2	31675.4
	Spent wash for compost (KL)	69100	69685.8
	Ash for compost (MT)	3815	4466.0
	Biological sludge as seed in composting (MT)	115	95
	Waste oil & Grease-(Qty in MT) Supplied to the recycler	Nil	Nil

Part - F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous Wastes: The Spent oil of 0.3 MT is sold to recycler. The ash is used in compost manufacturing.

Solid waste Characteristics: By-Products (Solid waste) Bagasse and Pressmud

Sl No	Parameters	Press mud
01	pH	6.6 - 7.6
02	Nitrogen %	1.1 - 1.3
03	Phosphorous %	2.1 - 2.3
04	Potassium %	0.5 - 0.7
05	Organic Carbon	31 - 44

Part - G

Impact of the pollution control measure taken on conservation of natural resources and consequently on the cost of production

Emission Control Measures---15 Lakhs
 Water and Waste water management---12 lakhs
 Solid Waste management--- 17 Lakhs
 Green House Drive ----10 Lakhs
 Monitoring Aspects----08 Lakhs
 Environment Cell & PR---7 Lakhs

About 69.0 Lakhs of rupees being spent on environmental safeguard in the year 2022-23

Part - H

Additional measures / investment proposal for environmental protection including abatement of pollution 100 KLPD Distillery productions started and CPU is commissioned along with Sugar Process CPU has been modified. The treated condensates are used as makeup water for cooling towers and process.

Part - I

Miscellaneous:

Any other particulars in respect of environmental protection and abatement of pollution, the Condensate Polishing Unit (CPU) for recycling the excess vapor condensate generated from sugar unit is reused in sugar and distillery process which reduce the raw water consumption in sugar unit.

Plantation (Plantation Details during the year 2022-23)

SI No	Name of the trees	Number planted
1	Bougainvillea	58
2	Coconut	30
3	Kanagale	30
4	Teak	45
5	Akesia	78
6	Daswal	14
7	Simorobha	44
8	Custard Apple	36
9	Peru	45
10	Lemon	33
11	Hibiscus	94
12	Bottle Brush	47
13	Sandal	74
14	Mango	31
15	Neem	47
16	Tamarind	61
17	Pongamia	108
18	Chikku	24
19	Kolias	55
20	Almond	52
21	Hebbat	27
22	Sivani	36
23	Honni	65
24	Sisavi	74
25	Casuarina	81
26	Silver Oak	44
27	Sisama	74
28	Hameliya	91
29	Jakrapa	44
TOTAL		1542

The plantation work is continued.