

VSIL/MoEFCC/HYR-1 /2020-21/026/ 2432

Date:- 29 Dec 2021

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 2021 to 30 Sep 2021

Enclosures:

- 1) EC Condition Compliance report
- 2) Annexures
- 3) MoEFCC RO office Monitor report

Thanking You,
Yours faithfully,



Prithvi. R Katti
(Whole Time 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-Bagewadi, Taluka-Hukkeri
Six Monthly Compliance Condition : Period of Submission 1 April 2021 to 30 Sep 2021

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.	The organization has accepted all the conditions stipulated in the EC and Directions of letter issued from SEIAA.
02	Distillery unit shall be based on molasses and no grain based distillery unit shall be operated.	The organization has accepted and obey 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 venture type wet scrubber which will reduce the air pollution and maintained the PM level to 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 conditions were 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 factory is repairing and constructing new road to avoid dust pollution. Please find attached photographs at Annexure 2. We are regularly maintain 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. Please find attached photographs at Annexure 2
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 company has uploaded its environmental clearance conditions and updating periodically .The compliance to the conditions report is sending to the respective offices regularly. The



	The levels of PM ₁₀ , PM _{2.5} , SO ₂ , NO _x and 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.	company has displayed regularly its AAQ data on the display boards.
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. The industry has well established waste sludge yeast separator and which is utilizing in the compost. Additionally the ETP sludge has been giving 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. Please find attached green belt photographs in the Annexure 3.
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-320175 dated 14 Sep 2020 the industry is permitted to lift 2747 M ³ of fresh water. The factory don't have any bore well.
11	Spentwash generation should not exceed 10KL/KL of alcohol. Spent wash from the distillery (100 KLPD) will be treated in anaerobic digester	The distillery unit is operating in very well parameters and producing



	<p>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>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 will not exceed 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 piezometers and ground water analysis at Annexure No 4.
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.	NA
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 any case incidents are occurred the industry will report to the Ministry and concerned regional office.
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 migrate 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.
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 a separate health checkup report is maintaining.
B	<u>General Conditions:</u>	
1	The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board.	The project authority will accept 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.	The industry will not engage in the 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 the industry is 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 confirm 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 usage.
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 6.
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 Equipments 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.
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.	Please find attached EMP of the factory at Annexure 7.
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, high school and ITI collage.
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.
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. Please find attached industry Environmental Management Cell on Annexure No 08.



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.
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 Report on Annexure 09.



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 (i)

Industrial effluent, Stack, Compost and other materials analysis report

AIR-F-005

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	193A/A-27A/11-21
Work order No.	-
Report Date	16/11/2021
Name of Industry Address:	Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	09/11/2021

PARTICULARS OF STACK

Stack Attached to	Boiler (70 & 80 TPH)
Stack Diameter (Meter)	3.63
Stack Height (Meter)	73.0
Stack Temperature (°C)	127
Stack Velocity of Flue Gases (m/s)	9.7
Stack Volume of Flue Gases (Nm ³ /hr)	265559
Type of Fuel	Bagasse

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	108	150	mg/Nm ³	IS-11255 (Part 1) 1985 Reaffirmed-2019
SO ₂ conc.	36.7	-	mg/Nm ³	IS-11255 (Part 2) 1985 Reaffirmed-2019
NO _x conc.	49	-	mg/ Nm ³	IS 11255 (Part 7) 2005 Reaffirmed-2012

Remark: ---

Instrument used: - Polltech make Model PEM - SMK 10, Sr. No. AIR-I-019

Calibration Due date: - 21/02/2022

hem
Analyst

padma
For Padmaja Aerobiologicals Pvt. Ltd.



AIR-F-006

CERTIFICATE OF ANALYSIS
AMBIENT NOISE LEVEL MEASUREMENT

Ref. No.: 193B/A-27B/11-21

Date: 16/11/2021

Work order No.: --

To,

M/s. Vishwaraj Sugar Industries Ltd.

Bellad-Bagewadi - 591305,

(Tq)- Hukkeri, (Dst)- Belgaum.

Date of Sampling: 09/11/2021

Sr. No.	LOCATIONS	Noise Level Day Time dB (A)	Noise Level Night Time dB (A)
1.	Near Mill House	68.2	61.5
2.	Near Boiler House	74.8	69.5
3.	Near Turbine House	77.4	71.6
4.	Near Compost Yard	52.1	46.3
5.	Near General Office	50.9	45.0
6.	Near Factory Colony	52.1	46.3

Remark: --

Instrument used: -Kusam-Meco KM 929MK1 Sr. No. PAPL/LAB/071

Calibration Due date: - 31/08/2022

Limit during Day Time (6:00 am to 10:00 pm) < 75 dB (A)

Limit during Night Time (10:00 pm to 06:00 am) < 70 dB (A)

padma
For Padmaja Aerobiologicals Pvt. Ltd.



CERTIFICATE OF ANALYSIS

Report No : PAPL/ EW-41A/11-21
 Sample Ref. No. : 288A/EW-41A/11-21
 Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
 Address : A/p.Bellad-Bagewadi - 591305,
 (Tq)- Hukkeri, (Dst)- Belgaum.
 Name of Sample : Sugar ETP Inlet
 Sample Quantity : 1000 ml
 Sample Collected by : Client

Date: - 16.11.2021

Date of Collection : 09.11.2021
 Date of Receiving : 10.11.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	4.8	---	--	IS:3025(P-11)2006
2.	Total Suspended Solids	612	mg/L	--	IS:3025(P-17)2012
3.	Total Dissolved Solid	2952	mg/L	--	IS:3025(P-16)1983
4.	Chemical Oxygen Demand	3218	mg/L	--	IS:3025(P-58)2006
5.	BOD 3 days at 27°C	1360	mg/L	--	IS:3025(P-44)1993
6.	Oil & Grease	14	mg/L	--	IS:3025(P-39)1991
7.	Chloride as Cl	476	mg/L	--	IS:3025(P-32)2007
8.	Sulphate as SO ₄	284	mg/L	--	IS:3025(P-24)2009

Remark: --

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FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/ EW-41B/11-21
Sample Ref. No. : 288B/EW-41B/11-21
Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
Address : A/p.Bellad-Bagewadi – 591305,
(Tq)- Hukkeri, (Dst)- Belgaum.
Name of Sample : Sugar ETP Outlet
Sample Quantity : 1000 ml
Sample Collected by : Client

Date: - 16.11.2021

Date of Collection : 09.11.2021
Date of Receiving : 10.11.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	6.9	---	--	IS:3025(P-11)2006
2.	Total Suspended Solids	45	mg/L	--	IS:3025(P-17)2012
3.	Total Dissolved Solid	521	mg/L	--	IS:3025(P-16)1983
4.	Chemical Oxygen Demand	149	mg/L	--	IS:3025(P-58)2006
5.	BOD 3 days at 27°C	42	mg/L	--	IS:3025(P-44)1993
6.	Oil & Grease	<1	mg/L	--	IS:3025(P-39)1991
7.	Chloride as Cl	71	mg/L	--	IS:3025(P-32)2007
8.	Sulphate as SO ₄	129	mg/L	--	IS:3025(P-24)2009

Remark: --

ANALYSED BY

FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/ EW-41C/11-21
Sample Ref. No. : 288C/EW-41C/11-21
Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
Address : A/p.Bellad-Bagewadi – 591305,
(Tq)- Hukkeri, (Dst)- Belgaum.
Name of Sample : Sugar CPU Inlet
Sample Quantity : 1000 ml
Sample Collected by : Client

Date: - 16.11.2021

Date of Collection : 09.11.2021

Date of Receiving : 10.11.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	7.3	---	--	IS:3025(P-11)2006
2.	Total Suspended Solids	8	mg/L	--	IS:3025(P-17)2012
3.	Total Dissolved Solid	98	mg/L	--	IS:3025(P-16)1983
4.	Chemical Oxygen Demand	67	mg/L	--	IS:3025(P-58)2006
5.	BOD 3 days at 27°C	19	mg/L	--	IS:3025(P-44)1993
6.	Oil & Grease	<1	mg/L	--	IS:3025(P-39)1991
7.	Chloride as Cl	17	mg/L	--	IS:3025(P-32)2007
8.	Sulphate as SO ₄	17	mg/L	--	IS:3025(P-24)2009

Remark:

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ANALYSED BY

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FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/ EW-41D/11-21
 Sample Ref. No. : 288D/EW-41D/11-21
 Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
 Address : A/p.Bellad-Bagewadi – 591305,
 (Tq)- Hukkeri, (Dst)- Belgaum.
 Name of Sample : Sugar CPU Outlet
 Sample Quantity : 1000 ml
 Sample Collected by : Client

Date: - 16.11.2021

Date of Collection : 09.11.2021

Date of Receiving : 10.11.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	7.1	---	--	IS:3025(P-11)2006
2.	Total Suspended Solids	7	mg/L	--	IS:3025(P-17)2012
3.	Total Dissolved Solid	61	mg/L	--	IS:3025(P-16)1983
4.	Chemical Oxygen Demand	39	mg/L	--	IS:3025(P-58)2006
5.	BOD 3 days at 27°C	11	mg/L	--	IS:3025(P-44)1993
6.	Oil & Grease	<1	mg/L	--	IS:3025(P-39)1991
7	Chloride as Cl	13	mg/L	--	IS:3025(P-32)2007
8	Sulphate as SO ₄	8	mg/L	--	IS:3025(P-24)2009

Remark:

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ANALYSED BY

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FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



AIR-F-005

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	70A/A-14A/10-21
Work order No.	-
Report Date	12/10/2021
Name of Industry	M/s Vishwaraj Sugar Industries Ltd.
Address:	Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	02/10/2021

PARTICULARS OF STACK

Stack Attached to	Boiler (10 & 12 TPH)
Stack Diameter (Meter)	0.9
Stack Height (Meter)	43.0
Stack Temperature ($^{\circ}\text{C}$)	139
Stack Velocity of Flue Gases (m/s)	8.0
Stack Volume of Flue Gases (Nm^3/hr)	13071
Type of Fuel	Coal/Biogas

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	56	150	mg/Nm^3	IS-11255 (Part 1) 1985 Reaffirmed-2019
SO_2 conc.	26.3	80	mg/Nm^3	IS-11255 (Part 2) 1985 Reaffirmed-2019
NO_x conc.	35	80	mg/Nm^3	IS 11255 (Part 7) 2005 Reaffirmed-2012

Remark: ---

Instrument used: - Polltech make Model PEM - SMS4 Sr. No. AIR-I-015

Calibration Due date: - 14/02/2022.

Utm
Analyst

pse l ll
For Padmaja Aerobiologicals Pvt. Ltd.



AIR-F-005

CERTIFICATE OF ANALYSIS

ANALYSIS REPORT FOR STACK EMISSION

Sample / Report Ref. No.	70B/A-14B/10-21
Work order No.	-
Report Date	12/10/2021
Name of Industry Address:	M/s Vishwaraj Sugar Industries Ltd. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.
Sample Collected by	PADMAJA AEROBIOLOGICALS PVT. LTD.
Date of Sampling	02/10/2021
<u>PARTICULARS OF STACK</u>	
Stack Attached to	1000 KVA DG Set
Stack Diameter (Meter)	0.254
Stack Height (Meter)	9.0
Stack Temperature (^o C)	147
Stack Velocity of Flue Gases (m/s)	9.6
Stack Volume of Flue Gases (Nm ³ /hr)	1226 *
Type of Fuel	Diesel

POLLUTION PARAMETERS

Parameter	Result	Limit	Unit	Method
Total Particulate Matter (TPM)	52	150	mg/Nm ³	IS-11255 (Part 1) 1985 Reaffirmed-2019
SO ₂ conc.	1.2	-	Kg/day	IS-11255 (Part 2) 1985 Reaffirmed-2019
NO _x conc.	405	-	ppm	IS 11255 (Part 7) 2005 Reaffirmed-2012
NMHC Conc.	41	-	mg/Nm ³	Instrumental Method
CO Conc.	52	-	mg/Nm ³	IS-5182 (Part 10) 1999,R- 2009

Remark: ---

Instrument used: - Polltech make Model PEM - SMS4 Sr. No. AIR-I-015

Calibration Due date: - 14/02/2022.

Hum
Analyst

padma
For Padmaja Aerobiologicals Pvt. Ltd.



AIR-F-002

**TEST REPORT
AMBIENT AIR QUALITY MONITORING**

Report No.	PAPL/A-14C/10-21	Report Date	12/10/2021
Work Order No.	--		
Name of Customer	M/s Vishwaraj Sugar Industries Ltd.		
Address	A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.		
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019	Valid up to	16/10/2024
Type of sampling	AAQM	24 Hrs.	✓
Instrument used	RDS	✓	FDS
	ID No.	PAPL/LAB/016	ID No.
	Calibration Due Date	31/08/2022	Calibration Due Date
Date of Sampling	02/10/2021	Sample Ref. No.	70C/A-14C/10-21
Location of sampling	Near Factory Main Gate		
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.		

POLLUTION PARAMETERS				
Parameter	Result	Limit	Unit	Method
Particulate Matter (PM _{2.5})	24.8	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)
Particulate Matter (PM ₁₀)	57.3	100	µg/m ³	IS 5182(Part-23):2006,Reaffirmed-2017
Sulphur Dioxide (SO ₂)	6.8	80	µg/m ³	IS 5182(Part-02):2001,Reaffirmed-2017
Nitrogen Dioxide (NO ₂)	18.9	80	µg/m ³	IS 5182(Part-06):2006,Reaffirmed-2017

Sampling conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	No

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.

W. M.
Analyst

padmaja
For Padmaja Aerobiologicals Pvt. Ltd.




AIR-F-002

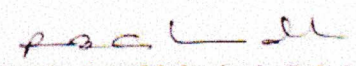
**TEST REPORT
AMBIENT AIR QUALITY MONITORING**

Report No.	PAPL/A-14D/10-21	Report Date	12/10/2021					
Work Order No.	--							
Name of Customer	M/s Vishwaraj Sugar Industries Ltd.							
Address	A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.							
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019		Valid up to	16/10/2024				
Type of sampling	AAQM	24 Hrs.	√	WAQM	8Hr	--	24 Hr	--
Instrument used	RDS	√		FDS	√			
	ID No.	PAPL/LAB/041		ID No.	PAPL/LAB/009			
	Calibration Due Date	07/05/2022		Calibration Due Date	11/02/2022			
Date of Sampling	02/10/2021			Sample Ref. No.	70D/A-14D/10-21			
Location of sampling	Near Distillery Gate							
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.							
POLLUTION PARAMETERS								
Parameter	Result	Limit	Unit	Method				
Particulate Matter (PM _{2.5})	29.3	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume –I)				
Particulate Matter (PM ₁₀)	65.1	100	µg/m ³	IS 5182(Part-23):2006,Reaffirmed-2017				
Sulphur Dioxide (SO ₂)	10.5	80	µg/m ³	IS 5182(Part-02):2001,Reaffirmed-2017				
Nitrogen Dioxide (NO ₂)	12.4	80	µg/m ³	IS 5182(Part-06):2006,Reaffirmed-2017				
Sampling conditions	Rain	No	Construction site near by		No			
	Wind	No	Vehicular Activity		No			

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.


Analyst


For Padmaja Aerobiologicals Pvt. Ltd.



AIR-F-002

**TEST REPORT
AMBIENT AIR QUALITY MONITORING**

Report No.	PAPL/A-14E/10-21	Report Date	12/10/2021					
Work Order No.	--							
Name of Customer	M/s Vishwaraj Sugar Industries Ltd.							
Address	A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.							
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019		Valid up to	16/10/2024				
Type of sampling	AAQM	24 Hrs.	√	WAQM	8Hr	--	24 Hr	--
Instrument used	RDS	√		FDS	√			
	ID No.	PAPL/LAB/015		ID No.	PAPL/LAB/010			
	Calibration Due Date	14/02/2022		Calibration Due Date	15/03/2022			
Date of Sampling	02/10/2021			Sample Ref. No.	70E/A-14E/10-21			
Location of sampling	Near Compost Yard							
Sample Collected By	Padmaja Aerobiologicals Pvt. Ltd.							
POLLUTION PARAMETERS								
Parameter	Result	Limit	Unit	Method				
Particulate Matter (PM _{2.5})	25.9	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume -I)				
Particulate Matter (PM ₁₀)	52.7	100	µg/m ³	IS 5182(Part-23):2006,Reaffirmed-2017				
Sulphur Dioxide (SO ₂)	6.2	80	µg/m ³	IS 5182(Part-02):2001,Reaffirmed-2017				
Nitrogen Dioxide (NO ₂)	14.6	80	µg/m ³	IS 5182(Part-06):2006,Reaffirmed-2017				

Sampling conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	No

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.

Utem
Analyst

For Padmaja Aerobiologicals Pvt. Ltd.



AIR-F-002

**TEST REPORT
AMBIENT AIR QUALITY MONITORING**

Report No.	PAPL/A-14F/10-21	Report Date	12/10/2021					
Work Order No.	--							
Name of Customer	M/s Vishwaraj Sugar Industries Ltd.							
Address	A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.							
MoEF Certificate No.	S.O.3744(E) dated 17.10.2019			Valid up to	16/10/2024			
Type of sampling	AAQM	24 Hrs.	√	WAQM	8Hr	--	24 Hr	--
Instrument used	RDS	√			FDS	√		
	ID No.	PAPL/LAB/054			ID No.	PAPL/LAB/055		
	Calibration Due Date	16/03/2022			Calibration Due Date	16/03/2022		
Date of Sampling		02/10/2021			Sample Ref. No.		70F/A-14F/10-21	
Location of sampling		Near Factory Colony						
Sample Collected By		Padmaja Aerobiologicals Pvt. Ltd.						
POLLUTION PARAMETERS								
Parameter	Result	Limit	Unit	Method				
Particulate Matter (PM _{2.5})	21.3	60	µg/m ³	Gravimetric method (CPCB guidelines 2012, NAAQS Volume –I)				
Particulate Matter (PM ₁₀)	40.5	100	µg/m ³	IS 5182(Part-23):2006,Reaffirmed-2017				
Sulphur Dioxide (SO ₂)	5.9	80	µg/m ³	IS 5182(Part-02):2001,Reaffirmed-2017				
Nitrogen Dioxide (NO ₂)	16.4	80	µg/m ³	IS 5182(Part-06):2006,Reaffirmed-2017				

Sampling conditions	Rain	No	Construction site near by	No
	Wind	No	Vehicular Activity	No

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.

utm
Analyst

padmaja
For Padmaja Aerobiologicals Pvt. Ltd.



AIR-F-006

CERTIFICATE OF ANALYSIS
AMBIENT NOISE LEVEL MEASUREMENT

Ref. No.: 70G/A-14G/10-21

Date: 12/10/2021

Work order No.: --

To,
M/s. Vishwaraj Sugar Industries Ltd.
Bellad-Bagewadi - 591305,
(Tq)- Hukkeri, (Dst)- Belgaum.

Date of Sampling: 02/10/2021

Sr. No.	LOCATIONS	Noise Level Day Time dB (A)	Noise Level Night Time dB (A)
1.	Near Factory Main Gate	52.7	50.2
2.	Near Distillery Main Gate	54.9	51.2
3.	Near Fermentation House	67.6	62.3
4.	Near Distillery Boiler	70.9	67.7

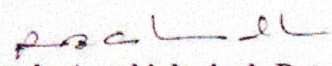
Remark: --

Instrument used: -Kusam- Meco KM 929 MK I Sr. No. AIR-I-039

Calibration Due date: - 09/03/2022

Limit during Day Time (6:00 am to 10:00 pm) < 75 dB (A)

Limit during Night Time (10:00 pm to 06:00 am) < 70 dB (A)


For Padmaja Aerobiologicals Pvt. Ltd.



WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/ W-06A/10-21
 Sample Ref. No. : 73A/EW-06A/10-21
 Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
 Address : A/p.Bellad-Bagewadi – 591305,
 (Tq)- Hukkeri, (Dst)- Belgaum.
 Name of Sample : Raw Spentwash
 Sample Quantity : 1000 ml
 Sample Collected by : Client

Date: - 12.10.2021

Date of Collection : 02.10.2021
 Date of Receiving : 03.10.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	4.2	---	--	IS:3025(P-11)2006
2.	Chemical Oxygen Demand	102214	mg/l	--	IS:3025(P-58)2006
3.	BOD 3 days at 27°C	52430	mg/l	--	IS:3025(P-44)1993
4.	Total Solids	148720	mg/l	--	IS:3025(P-15)2019
5.	Total Volatile Solids	94480	mg/l	--	APHA 23 rd Edition, 2540-E,G
6.	Total Inorganic Solids	54240	mg/l	--	IS:3025(P-15)2019
7.	Potassium as K	13430	mg/l	--	IS:3025 (P-45) 2019
8.	Chloride as Cl	7854	mg/l	--	IS:3025(P-32)2007
9.	Sulphate as SO ₄	6212	mg/l	--	IS:3025(P-24)2009

Remark: --

ANALYSED BY

FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/ W-06B/10-21
 Sample Ref. No. : 73B/EW-06B/10-21
 Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
 Address : A/p.Bellad-Bagewadi – 591305,
 (Tq)- Hukkeri, (Dst)- Belgaum.
 Name of Sample : Digester Inlet
 Sample Quantity : 1000 ml
 Sample Collected by : Client

Date: - 12.10.2021

Date of Collection : 02.10.2021
 Date of Receiving : 03.10.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	3.9	---	--	IS:3025(P-11)2006
2.	Chemical Oxygen Demand	59230	mg/l	--	IS:3025(P-58)2006
3.	BOD 3 days at 27°C	26010	mg/l	--	IS:3025(P-44)1993
4.	Total Solids	102130	mg/l	--	IS:3025(P-15)2019
5.	Total Volatile Solids	70610	mg/l	--	APHA 23 rd Edition, 2540-E,G
6.	Total Inorganic Solids	31520	mg/l	--	IS:3025(P-15)2019
7.	Potassium	12308	mg/l	--	IS:3025 (P-45) 2019
8.	Chloride as Cl	7215	mg/l	--	IS:3025(P-32)2007
9.	Sulphate as SO ₄	5842	mg/l	--	IS:3025(P-24)2009

Remark: --

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ANALYSED BY

psclll
FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/ EW-06C/10-21
 Sample Ref. No. : 73C/EW-06C/10-21
 Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
 Address : A/p.Bellad-Bagewadi – 591305,
 (Tq)- Hukkeri, (Dst)- Belgaum.
 Name of Sample : Digester Outlet
 Sample Quantity : 1000 ml
 Sample Collected by : Client

Date: - 12.10.2021

Date of Collection : 02.10.2021
 Date of Receiving : 03.10.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	7.1	---	--	IS:3025(P-11)2006
2.	Alkalinity	6404	mg/l	--	IS:3025 (P-23) 2019
3.	Volatile Acids	3167	mg/l	--	APHA 23 rd Edition, 2540-E,G
4.	Chemical Oxygen Demand	37362	mg/l	--	IS:3025(P-58)2006
5.	BOD 3 days at 27°C	5590	mg/l	--	IS:3025(P-44)1993
6.	Total Solids	76130	mg/l	--	IS:3025(P-15)2019
7.	Total Volatile Solids	40940	mg/l	--	APHA 23 rd Edition, 2540-E,G
8.	Total Inorganic Solids	35190	mg/l	--	IS:3025(P-15)2019
9.	Potassium	9130	mg/l	--	IS:3025 (P-45) 2019
10.	Chloride as Cl	6502	mg/l	--	IS:3025(P-32)2007
11.	Sulphate as SO ₄	4346	mg/l	--	IS:3025(P-24)2009

Remark: --

ANALYSED BY

FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/ EW-06D/10-21
 Sample Ref. No. : 73D/EW-06D/10-21
 Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
 Address : A/p.Bellad-Bagewadi – 591305,
 (Tq)- Hukkeri, (Dst)- Belgaum.
 Name of Sample : Distillery CPU Inlet
 Sample Quantity : 1000 ml
 Sample Collected by : Client

Date: - 12.10.2021

Date of Collection : 02.10.2021

Date of Receiving : 03.10.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	2.9	---	--	IS:3025(P-11)2006
2.	Total Suspended Solids	176	mg/L	--	IS:3025(P-17)2012
3.	Total Dissolved Solid	870	mg/L	--	IS:3025(P-16)1983
4.	Chemical Oxygen Demand	5230	mg/L	--	IS:3025(P-58)2006
5.	BOD 3 days at 27°C	2431	mg/L	--	IS:3025(P-44)1993
6.	Oil & Grease	<1	mg/L	--	IS:3025(P-39)1991
7.	Chloride as Cl	234	mg/L	--	IS:3025(P-32)2007
8.	Sulphate as SO ₄	132	mg/L	--	IS:3025(P-24)2009

Remark: --

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ANALYSED BY

pscl ll
FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/ EW-06E/10-21
 Sample Ref. No. : 73E/EW-06E/10-21
 Name of Industry : M/s Vishwaraj Sugar Industries Ltd.
 Address : A/p.Bellad-Bagewadi - 591305,
 (Tq)- Hukkeri, (Dst)- Belgaum.
 Name of Sample : Distillery CPU Outlet
 Sample Quantity : 1000 ml
 Sample Collected by : Client

Date: - 12.10.2021

Date of Collection : 02.10.2021

Date of Receiving : 03.10.2021

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH	3.0	---	--	IS:3025(P-11)2006
2.	Total Suspended Solids	56	mg/L	--	IS:3025(P-17)2012
3.	Total Dissolved Solid	501	mg/L	--	IS:3025(P-16)1983
4.	Chemical Oxygen Demand	104	mg/L	--	IS:3025(P-58)2006
5.	BOD 3 days at 27°C	29	mg/L	--	IS:3025(P-44)1993
6.	Oil & Grease	<1	mg/L	--	IS:3025(P-39)1991
7.	Chloride as Cl	61	mg/L	--	IS:3025(P-32)2007
8.	Sulphate as SO ₄	32	mg/L	--	IS:3025(P-24)2009

Remark: --

ANALYSED BY

FOR PADMAJA AEROBIOLOGICALS PVT. LTD.

Abbreviations: ---



Vishwaraj Sugar Industries Limited Bellad-Bagewadi

Annexure (ii)

Measures to mitigate dust nuisance and air pollution

Vishwaraj Sugar Industries Limited, Bellad-bagewadi

Annexure-II

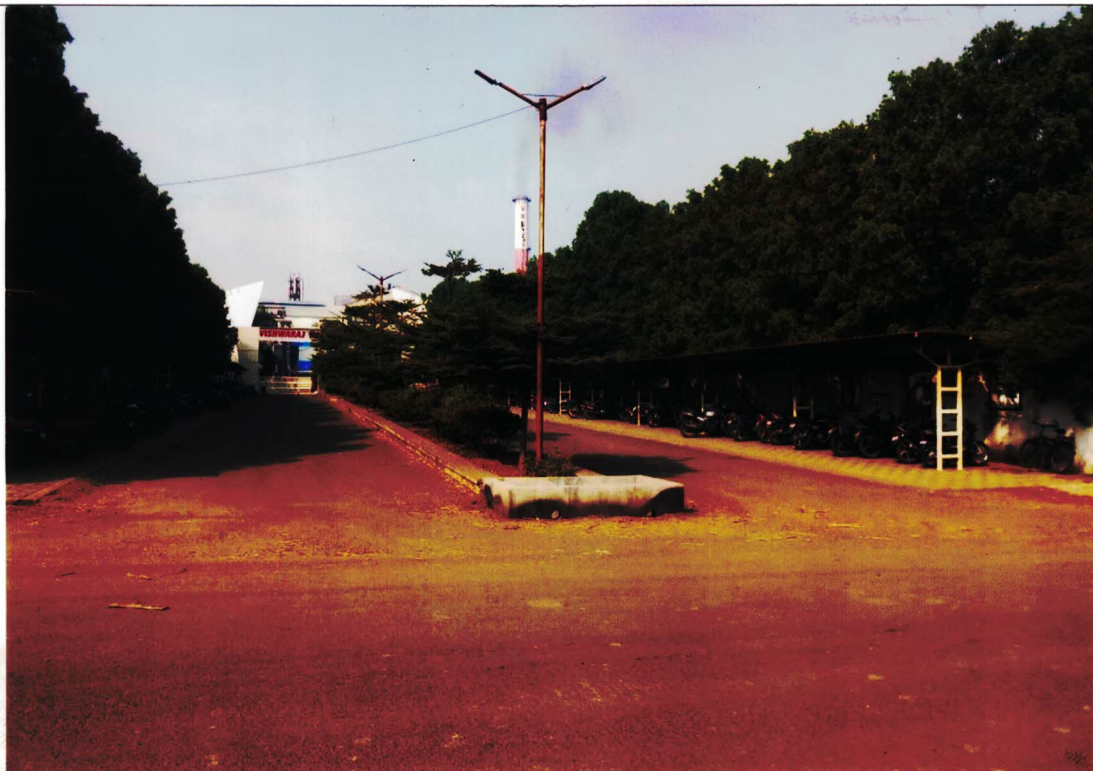
Industrial metaled roads to avoid fugitive dust emission



Vishwaraj Sugar Industries Limited, Bellad-bagewadi

Annexure-II

Industrial metaled roads to avoid fugitive dust emission



Vishwaraj Sugar Industries Limited, Bellad-bagewadi

Annexure-II

Housekeeping and Area cleaning activities



Vishwaraj Sugar Industries Limited, Bellad-bagewadi

Annexure-II

Housekeeping and Area cleaning activities



Vishwaraj Sugar Industries Limited, Bellad-bagewadi

Annexure-II

Housekeeping and Area cleaning activities



Vishwaraj Sugar Industries Limited, Bellad-bagewadi

Annexure-II

Housekeeping and Area cleaning activities



Vishwaraj Sugar Industries Limited Bellad-Bagewadi

Annexure (iii)

Industrial Green Belt Development

Vishwaraj Sugar Industries Limited., Bellad-Bagewadi

Details of the green belt and development

S NO	Name Of the Tree	Number of Trees (As on June2021)
01	Bouganville	1610
02	Coconut	1200
03	Kanagale	1350
04	Teak	1158
05	Akesia	1248
06	Daswal	1362
07	Simorabha	1458
08	Custard Apple	1222
09	Peru	1142
10	Lemon	1200
11	Hibiscus	1156
12	Bottle Brush	1180
13	Sandal	1100
14	Mango	1150
15	Neem	1268
16	Tamarind	1275
17	Pongamia	1166
18	Chikku	250
19	Kolias	148
20	Almond	568
21	Hebbat	190
22	Sivani	1145
23	Honni	1166
24	Sisavi	178
25	Casuarina	180
26	Cherry	185
27	Silver Oak	326
28	Sisama	256
29	Hemiliya	265
30	Jakrapa	578
31	Tarmelia mentali	189
	Total	26869



Vishwaraj Sugar Industries Limited., Bellad-Bagewadi

Details of the plantation year wise

S NO	Name Of the Tree	Year of Plantation
01	Bouganville	2001-2005
02	Coconut	2004-2007
03	Kanagale	2010-2014
04	Teak	2011-2012
05	Akesia	2013-2015
06	Daswal	2001-2003
07	Simorabha	2000-2010
08	Custard Apple	2008-2015
09	Peru	2007-2010
10	Lemon	2009-2016
11	Hibiscus	2002-2011
12	Bottle Brush	2007
13	Sandal	2006-2007
14	Mango	2007-2009
15	Neem	2004-2010
16	Tamarind	2007-2014
17	Pongamia	2005-2014
18	Chikku	2007-2016
19	Koliyas	2008-2014
20	Almond	2010-2014
21	Hebbat	2005-2009
22	Sivani	2002-2007
23	Honni	2012-2013
24	Sisavi	2009-2012
25	Casuarina	2010-2011
26	Cherry	2008-2015
27	Silver Oak	2010-2011
28	Sisama	2009-2014
29	Hemiliya	2009-2012
30	Jakrapa	2014-2015
31	Tarmelia mentali	2015-2018



Vishwaraj Sugar Industries Limited., Bellad-Bagewadi

Details of the Year wise plantation and Survival

S NO	Plantation	Year	Nos	Survived
01	Casuarina	2020-21	250	180
02	Cherry	2020-21	250	185
03	Silver Oak	2020-21	450	326
04	Sisama	2019-20	300	256
05	Hemiliya	2019-20	300	265
06	Jakrapa	2019-20	600	578

The plants were not survived due to the shepherds and cattles. Now we have provided the barricades for the plants.



Vishwaraj Sugar Industries Limited., Bellad-Bagewadi

Details of the Year wise plantation and budget

S NO	Plantation	Year	Nos	Budget(Lacs)
01	Bouganville	2020-21	500	0.5
02	Coconut	2020-21	350	0.5
03	Kanagale	2020-21	250	0.25
04	Teak	2019-20	450	1.0
05	Akesia	2019-20	600	0.75
06	Daswal	2019-20	200	0.25



Vishwaraj Sugar Industries Limited., Bellad-Bagewadi

Details of the budget allocation

S No	Year	Budget(Lacs)
01	2021-22	7.0
02	2022-23	5.0
03	2023-24	8.0



Vishwaraj Sugar Industries Limited Bellad-Bagewadi

Annexure (iv)

Industrial ground water monitor "Piezometers"



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416

Phone : Sangli - 0233 - 2301857, (M) 9372109522, 9890992118, 9890454.

E-mail : bssubbarao@yahoo.com / bssharat@yahoo.com / bsnagjyoti@yahoo.com

QCI - NABET Accredited EIA Consultant Organization - Certificate No.

NABET / EIA / 1922 / RA 0159 valid upto June 12, 2022.

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2021

TEST REPORT

Report Ref. No. : SEC/W-/2021	Nature of Sample: Water
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Sample Collected By: SEC Lab
Address: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Sample Quantity : 1 lit
Name of Sample & Location: Piezo well	

Average sample analysis report season 2021-2022

Piezometer Sr. No.	pH	COD (mg/l)	BOD (mg/l)	Chlorides (mg/l)	Sulphate (mg/l)	Total Dissolved Solids (mg/l)
1	6.95	96	1.4	22.3	58.3	112
2	8.07	113	5.7	35.2	65.2	124
3	7.51	125	4.4	28.4	60.9	175
4	7.92	118	3.3	27.5	44.7	244
5	7.64	112	4.9	29.3	35.1	350
6	7.56	94	4.8	26.3	65.7	405
7	7.30	133	6.1	33.1	51.9	380
8	7.97	110	4.2	38.2	63.8	510

Note: The Sample were collected from April 2021-October 2021.

Remarks:

Thanking you,

Analysed By



B. Subbarao

Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

***END of Test Report ***



Vishwaraj Sugar Industries Limited., Bellad-bagewadi

Piezo#1

East direction of the Compost Yard

Latitude	Longitude
16°16'47"	74°42'26"



Piezo#2

West direction of the Compost Yard

Latitude	Longitude
16°16'48"	74°42'21"



Vishwaraj Sugar Industries Limited., Bellad-bagewadi

Piezo#3	
South direction of the Compost Yard	
Latitude	Longitude
16°16'43"	74°42'24"



Piezo#4	
North direction of the Compost Yard	
Latitude	Longitude
16°16'51"	74°42'24"



Vishwaraj Sugar Industries Limited., Bellad-bagewadi

Piezo#5	
Near Compost Yard canal	
Latitude	Longitude
16°16'39"	74°42'23"



Piezo#6	
Spentwash Lagoon 1	
Latitude	Longitude
16°16'36"	74°42'27"



Vishwaraj Sugar Industries Limited., Bellad-bagewadi

Piezo#7	
Spentwash Lagoon Down stream	
Latitude	Longitude
16°16'38"	74°42'27"



Piezo#8	
Cane yard side	
Latitude	Longitude
16°16'47"	74°42'27"



Vishwaraj Sugar Industries Limited Bellad-Bagewadi

Annexure (vi)

Industrial Hazardous waste Management, Disposals And Authorisation

Vishwaraj Sugar Industries Limited, Bellad-bagewadi

Annexure-10

Fly ash and Solid waste transportation through coverings

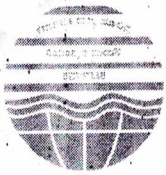


Vishwaraj Sugar Industries Limited, Bellad-bagewadi

Annexure-06

Fly ash and Solid waste transportation through coverings





**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-111493 Valid upto: 30/06/2021

(This document contains 3 pages excluding annexure)

Authorization No: H-111493

PCB ID: 10661

Date: 17/10/2019

**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 17/09/2019 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	M.T	Shall be collected in leak proof containers and disposed to KSPCB authorized Re-processors/ Incinerator.

The authorization shall be valid for a period upto 30/06/2021

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".



Vishwaraj Sugar Industries Limited Bellad-Bagewadi

Annexure (vii)

Industrial Environment Management Plan

CHAPTER VII

7 Environmental management plan

7.1 Impacts and Mitigation Plan

The Environmental Management plan shall consist of the impacts and mitigation measures during the construction and operation of the units. The impacts on environmental components such as Air Quality, Water Quality, Noise levels and Soil quality shall be illustrated in detail. The methodology consists of the measures on minimization of the proposed impacts. Some of the Environmental Components, proposed impacts and mitigation measures are listed below.

Table 70 Environmental Components, proposed impacts and mitigation measures

Sr. No.	Environmental Component	Source	Impact	Mitigation measures
1.	Air Quality	<ul style="list-style-type: none"> - Excavation, Transportation during the Construction, - Emission through stack (After the Plant is commissioned) 	<ul style="list-style-type: none"> - Increased Dust levels. - Increase in the Ground level concentration of SPM 	<ul style="list-style-type: none"> - Provide masks to the workers and spray water to suppress the dust. - Install Wet-scrubber/ Electrostatic Precipitator to control stack emissions.
2.	Water Quality	<ul style="list-style-type: none"> - Process - Hot water (Condensates) - Spillages & leakages - Periodical washings 	<ul style="list-style-type: none"> - Oil & grease, BOD & low pH. - ETP performance gets affected, - Shock loads on ETP. - Shock loads on ETP 	<ul style="list-style-type: none"> - Provide oil & grease separators-mechanical. - Adopt Clean technologies as per Comprehensive Industry Document on Sugar Industry (COINDS), Control pH by biological means. - Cool the water and reuse. - Adopt dry-cleaning methods and collect the leakages, spillages and reprocess. - Provide a separate storage pond and add in a controlled manner to ETP.



3.	Noise	Turbines, Steam exhausts, Cane cutters, Boiler	Affects the hearing and cause fatigue and sometimes nervous breakdown.	-Provide silencer pads and barriers and give earplugs and earmuffs. Change the work schedules of the workers from high exposure places to low levels of exposure.
4.	Soil Quality	Application of treated effluent	Increase in soil salinity.	Effluent quality as well as quantity shall be strictly controlled by regular monitoring.
5.	Green-belt	All around the factory and within the premises	Helps to reduce CO ₂ levels	Provide at least 2500 plants per hectare covering more than one-third area of the vacant land.

7.2 Records and Documentations-

The Registers shall be maintained on the performance of ETP, Chemical consumption, Power requirements etc. and these records shall be made available to the Regulatory Agency, Consultant and Stakeholders.

7.2.1 Documentations

All the important documents such as consent letters, Environmental Clearances, Water Cess returns, Environmental Statement Form – V, Hazardous Waste (Management & Handling) Rules, 1989 and amended rules thereof and compliance reports shall be exhibited for inspection by the Government Agencies and Stakeholders.

7.2.2 Gazette Notifications

The Gazette Notifications published by the MOEF shall be kept in the laboratory for ready reference. Similarly, the testing procedures for Water, Air, Soil and Wastewater shall be kept in the laboratory at each equipment for ready reference.



7.2.3 Troubleshooting: -

Table 70 Troubleshooting

Sr. No.	Parameter	Area of Occurrence	Causes	Mitigation measures
1	Low pH	a) Anaerobic Digesters.	- High organic loading - Extraneous or toxic matters	- Discontinue the loading temporarily - Increase the alkalinity by adding lime/Sodium bicarbonate Total Alkalinity shall be maintained three times the Total Volatile Fatty Acids. - Identify the source of toxic substance. Either detoxify or do not allow the waste to enter into the ETP or treat it separately
		b) Aeration Systems	-High F/M ratio more than the design.	-Reduce the organic load and maintain the F/M as per the design.
2.	Low COD/BOD removal efficiency	Poor performance of biological reactors	Increase in organic loading	Characterise the waste stream. Provide additional units if required.



Sr. No.	Parameter	Area of Occurrence	Causes	Mitigation measures
3	SVI	Aerobic Systems	Low MLSS concentration (below 2000 mg/l) Sludge Bulking (SVI above 100)	- Increase MLSS concentration by increasing the re-circulation ratio of the return sludge. - Check the D.O. in the aeration tank. Always maintain D.O. above 1.5 mg/l - Check the F/M Ratio. - Chlorinate the waste to reduce filamentous growth.
4	Sludge Rising	Settling Tanks	De-nitrification	Increase the sludge withdrawal rate from the clarifier and also increase re-circulation ratio.
5	Lubricants	Oil and Grease	Due to improper maintenance of the removal mechanism. -Poor Housekeeping practices.	Control the spillages of oil and grease and adopt efficient oil removal device.
6	Low D.O.	Aeration tanks	Poor performance	Check the oxygenation capacity of the aerators. Always purchase aerators from reputed manufacturers.
7	Poor efficiency of SPM removal	APC equipment	Performance of different type of equipment. a) Multi cyclone- 50-55% b) Wet-scrubber- 80-85% c) ESP- 95-98 %	Select appropriate equipment to meet the regulatory standards

The main objective of Environment Management Plan (EMP) is to conserve resources, minimize waste



generation, treatment of wastes, recovery of by products and recycling of material. It also incorporates vegetation and landscaping of the open area and also the post Project quality monitoring. The EMP measures to minimize adverse impact are classified as below:

1. Measures built in the process
2. Measures during construction phase
3. Measures during operational phase

7.3 Measures Built In The Process

The objective is to employ environment friendly processes. It shall incorporate efficient utilization of resources, minimum waste generation, built in waste treatment and operational safety.

The measures suggested are :

7.4 Construction Phase Management Plan

Water Management

Construction equipment requiring minimum water for cooling should be chosen. High pressure hoses should be used for cleaning and dust suppression. If water from well is to be extracted, the rate of extraction should be kept below the safe yield level.



Surface Water Quality

The construction activities would be avoided during monsoon season, particularly the excavation work if possible. Wherever needed check dams and dykes shall be provided for control of soil erosion. The soil holding / binding vegetation such as grass shall be grown around the construction site before commencement of construction activity to reduce soil erosion. Appropriate sanitation facilities will be provided for workers.

Ground water Quality

Construction wastes will not be discharged to surface or ground water bodies. As far as possible construction wastes will be recycled and reused. Alternatively they will be disposed off on a designated landfill site.

Air Quality

All vehicles and construction equipment with internal combustion engines will be maintained for effective combustion to reduce vehicular emissions.

Water will be sprayed with high-pressure hoses for dust suppression during dust generating activities such as excavation, crushing, concrete mixing, material handling etc.,

As far as possible asbestos will not be used for construction work. If asbestos is used, all asbestos waste will be collected separately and disposed off on landfill with appropriate soil cover.

Noise

Construction equipment with minimum noise and vibrations will be chosen.

Construction workers engaged and operation of the noise producing equipment will use earplugs and / earmuffs.

Construction equipment with internal combustion engines will be provided with proper silencers and mufflers to reduce noise levels.

Noise attenuating green belt will be developed to reduce noise impacts.

Land

Check bunds shall be built in the construction area to prevent soil erosion due to rainwater.

Measures will be taken to minimize waste soil generation. Construction waste material will be recycled.

Designation and demarcation of construction site with due provision for infrastructure.

Using appropriate measures for slope stabilization to reduce soil erosion.

Ecology

- Plantation of dust absorbing trees near dust emission areas.
- Plantation of soil holding / binding and fast growing plants e.g. grass to avoid soil erosion.
- Plantation of noise attenuating species to reduce noise pollution both during the construction as well as in the operation phase.
- Stabilization of all disturbed slopes before the onset of monsoon to avoid soil erosion.
- Avoiding felling of existing trees / vegetation as far as possible. If necessary, the number of trees felled to be replaced with double the number of trees in the form of green belt development.
- Reuse of wastewater generated out of construction activity for irrigation / green belt.
- Avoiding use of high noise producing equipments during nighttime to avoid impact on fauna in the study area.



Socio – Economic Factors

Making use of local people for construction work to the maximum extent possible.

- Providing proper facilities for water supply, sanitation, domestic fuel, education, transportation, etc. for construction workers. Protection of company employees and equipment from construction hazards, including open excavations, falling objects, welding operations, dust, temporary wiring, and temporary overhead electrical lines. Barricades and fences are provided around the construction area. Personnel protective equipments e.g. safety helmet, goggles, gumshoes, etc. will be provided to the workers.

7.5 Operational Phase Management Plan

The generation of pollutants such as wastewater, gaseous emissions and solid wastes during normal operational phase will cause adverse impacts and stress on various environment parameters. The management plan for mitigation of adverse impacts and enhancement of beneficial impacts are discussed below.

7.5.1 Water Management

Water Resources

Fresh water required shall be minimized by adopting 3R principles.

A network of planned storm water drainages shall be provided to avoid contamination of rainwater with factory wastewater or other waste material. Rain harvesting plan shall be implemented to collect and store rainwater and also to replenish the ground water source.

Waste Water

The quantity and quality of wastewater in the plant is controlled by following measures:

- Recycle of process water including steam condensate and reuse of treated wastewater in the plant. Control of water taps, washings, leakages from pump glands and flanged joints.
- Overflow of vessels is strictly avoided. Floor cleaning with water will be replaced with dry cleaning with Bagasse. Leakage and spillage of molasses at pumps and vessels is collected in small pits and recycled.
- Effluent treatment facilities shall be provided to make the treated water fit for land application.
- Storage reservoirs of adequate capacity shall be provided to hold rainwater and treated effluent during unfavorable climatic conditions.

7.5.2 Air Environment

Gaseous emission in the industry is mainly due to burning of fuel in boilers. These are controlled by installation of ESP. The fugitive emissions are mainly from roads. Besides the APC equipment, the following measures shall be adopted.

- Tree plantation in 3 to 5 rows shall be developed all around the premises.
- All internal roads shall be properly paved or tarred to avoid fugitive emissions. A tree plantation in 2 to 3 rows shall be developed on both sides of the roads.



- All the other roads in the vicinity of the factory used for transportation of raw materials and products will be paved or tarred, and these shall be maintained in good condition. Trees shall be planted on either side of the road. D.G. sets shall be provided stack of 6 m high above the roof level. Vehicle engines are maintained in good condition to avoid incomplete combustion.

7.5.3 Solid Waste Management

Molasses, press mud, Ash, ETP sludge and lime clinker are the main solid materials generated from the industry. The measures adopted for safe storage and handling of these solid products are as below :

- Molasses will be stored in top covered M.S. tank. Dyke wall shall be constructed to hold the tank contents in case of leakages.
- Press-mud storage yard and ash storage yard are constructed with seepage proof flooring. Garland gutters shall be provided around the yards to prevent entry and exit of storm water from the premises.
- Green belt of 4 to 6 m width is maintained all around the compost, bagasse and press mud yards.
- Press mud, ETP Sludge, boiler ash and lime sludge may be mixed together to produce enriched manure.

7.5.4 Noise Management

Necessary measures as indicated below are taken to reduce sound intensity below the allowable limits at the source itself. In general at the locations of turbines, compressors, fans etc. The sound intensity generally exceeds the standards. The workers engaged in such locations are provided with earmuffs/ear plugs to have additional safety.

- Adoption of noise reduction measures in the industry as per the CPCB guidelines.
- Specifying noise standards to machinery manufacturers.
- Acoustic barriers or shields to the machineries.
- Vibration free foundations for machinery.
- Acoustic walls and roofs where such machinery is installed.
- Segregation of machinery having high noise level in isolated buildings.
- Incorporation of sound absorbers to blowers and compressors.
- Sound control measures to steam vents.
- Proper maintenance of machinery, especially oiling and greasing of bearings and gears etc.
- Avoiding vibration of machinery with proper design such as speed and balancing etc.
- Use of personnel protective equipment such as earmuffs and earplug for persons working in such locations.
- Plantation of green trees around the factory building and premises to control the intensity of noise to the surrounding area.

With above noise abatement measures the noise level in the premises will be maintained within the desired limits. It will be ensured that the workers in high noise areas use earmuffs, earplugs. Further, it is ensured that the noise level in side the work area will conform to the standards of industrial area and noise level outside premises will conform to the standards of residential areas.



7.5.5 Biological Environment Management

Plantation program as indicated below will be undertaken to enhance biological environment.

- Development of green belt all around the Project site.
- Conservation of existing vegetation.
- Taking up tree plantation work in the vicinity of factory in co-operation with village authorities as a community service.
- Clearing of existing vegetation should be kept to minimum and should be done only when absolutely necessary.
- Plantation program should be undertaken in all available areas. This should include plantation in the proposed plant premises, along the internal and external roads, around the solid waste storage yards and around the administrative buildings.

Green Belt Development

Development of greenbelt in and around the industry is an effective way to check pollutants and their dispersion into surrounding areas. The degree of pollution attenuation by a green belt depends on its height and width, foliage surface area and density. The main objective of green belt around the factory is:

- Mitigation of impacts due to fugitive emissions.
- Attenuation of noise levels.
- Ecological restoration.
- Creation of aesthetic environment.
- Waste water reuse.

Criteria for Selection of Species for Green Belt

- Rapid growth and evergreen habitats
- Tolerance to water stress and extreme climatic conditions
- Difference in height and growth habits
- Aesthetic and pleasing appearance.
- Provide shade
- Large bio-mass to provide fodder and nitrogen
- Improving waste land
- To suit specific climate and soil characteristics (local species).
- Sustainability with minimum maintenance

Recommended plant species shall be utilized for development of green belt and greenery in and around the factory premises.

7.5.6 Storm Water Management

Large quantity of storm water is generated during rainy days. Rainwater collection and harvesting plan will be implemented to conserve water resources and to improve the ground water table. The Project site area is segregated into different premises for effective management of storm water. Storm water gutters are designed and constructed based on contour data of the premises and rainfall data of the region. Necessary measures shall be taken to control the quality of storm water.

The press mud and compost storage areas may contain spillage of solid matter. During rainy period, the leachate of this area is likely to affect the quality of storm



water. Therefore, these premises are isolated with garland gutters. The floorings are suitably prepared to avoid percolation, and the quality of storm water collected from these garland channels is periodically checked.

Storm Water Reservoir

The maximum annual rainfall in the region is about 800 mm and is spread from June to September. The average monthly rainfall is about 200 mm. Storm water gutters shall be constructed as per the standards in the premises to collect rainwater and water is lead to the rainwater reservoirs. The rainwater thus collected is used for green belt development in the factory or let out to agricultural land for irrigation. The storm water collected in a year from different sites of the factory is given below –

Sr. No	Location	Area Acre / m ²	Average Run-off Factor	Rain fall in mm	Quantity of rain water per year m ³
1.	Sugar / Co-gen Factory	-	0.80	0.60	3,60,000

Storm water storage capacity shall be provided for 30% of the annual storm water collected from the factory premises. They shall be constructed in earth work as per standard practices. The capacity and size of these are given below –

Reservoirs	Location	Capacity in m ³
Reservoir	Sugar/Co-generation	1,20,000



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 not in use).
2005-06	4.00	3.50	Sugar factory Effluent Treatment Plant
2005-06	1.00	0.80	Concrete chimney of 73 m height
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 lagoon I.
2013-14	1.20	1.20	For the construction of lined lagoon II.
2014-15	1.00	0.95	For the construction of the 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
TOTAL	17.38	16.58	



Vishwaraj Sugar Industries Limited Bellad-Bagewadi

Annexure (viii)

Industrial Environment Management Cell

Vishwaraj Sugar Industries Limited
Environment Management Cell

EMC. Meeting 02 Nov 2021

Members of the Cell

Mr. Mukesh Kumar-----Executive Director
Mr. V. N Bhosale ----- -GM Sugar Process
Mr. C.S Hiremath ----- GM Technical
Mr. S. L Sambrekar-----Manager Distillery
Mr. B.G Mirajkar -----Manager Water & Environment / Cell Co-Ordinator
Mr. U.B Managavi -----Sr.Chemist Vinegar
Mr. K. M Katkar -----Sr. Chemist Sugar Process
Mr. V. M Dodadannavar--- WTP Chemist
Mr.S. M Hebbale ----- ETP Chemist
Mr. Iranna Gundakalle ----Distillery Chemist

Work Progress of Previous EMC/Review...

- 1) 105 Nos of plantation was done in the premises and Diesel pump.
- 2) Total 1300 Nos of Plants were planted in the nearby Laxmi hill.

Agenda of the EMC monthly meeting:

- 1) Area cleaning and scrap material removal by 28 Nov 2021.
- 2) Inside plant area degrassing and new plantation by 30 Nov 2021.

Next EMC Meeting is scheduled on 07 Dec 2021



Vishwaraj Sugar Industries Limited
Environment Management Cell

EMC. Meeting 05 Oct 2021

Members of the Cell

Mr. Mukesh Kumar-----Executive Director
Mr. V. N Bhosale -----GM Sugar Process
Mr. C.S Hiremath ----- GM Technical
Mr. S. L Sambrekar-----Manager Distillery
Mr. B. G Mirajkar -----Manager Water & Environment / Cell Co-Ordinator
Mr. U.B Managavi -----Sr.Chemist Vinegar
Mr. K. M Katkar -----Sr. Chemist Sugar Process
Mr. V. M Dodadannavar -- WTP Chemist
Mr.S. M Hebbale -----ETP Chemist
Mr. Iranna Gundakalle ----Distillery Chemist

Work Progress of Previous EMC/Review...

- 1) Compost yard garland canal cleaning work is completed.
- 2) Factory outside road cleaning work is completed.
- 3) Staircase work is completed.

Agenda of the EMC monthly meeting:

- 1) Replanting of 100 nos plants in the factory Premises near Diesel pump
- 2) Plantation in the hill with minimum 1000 nos of plants for the environmental awareness.

Next EMC Meeting is scheduled on 02 Nov 2021



Vishwaraj Sugar Industries Limited
Environment Management Cell

EMC.Meeting 07 Sep 2021

Members of the Cell

Mr. Mukesh Kumar-----Executive Director
Mr. V. N Bhosale -----GM Sugar Process
Mr. C.S Hiremath ----- GM Technical
Mr. S. L Sambrekar-----Manager Distillery
Mr. B. G Mirajkar -----Manager Water & Environment / Cell Co-Ordinator
Mr. U.B Managavi -----Sr.Chemist Vinegar
Mr. K. M Katkar -----Sr. Chemist Sugar Process
Mr. V. M Dodadannavar ---WTP Chemist
Mr.S. M Hebbale ----- ETP Chemist
Mr. Iranna Gundakalle ----Distillery Chemist

Work Progress of Previous EMC/Review...

- 1) Biogas digester sludge has been drained @5%.
- 2) WET-SCRUBBER maintenance work is under progress.
- 3) Environmental monitoring equipment maintenance work is completed.

Agenda of the EMC monthly meeting:

- 1) Compost Yard Garland Canal cleaning by 15 Oct 2021.
- 2) Factory Outside road Cleaning by 10 Oct 2021.
- 3) Repair of the staircase of CPU by 10 Oct 2021 (Civil).

Next EMC Meeting is scheduled on 05 Oct 2021



Vishwaraj Sugar Industries Limited
Environment Management Cell

EMC.Meeting 03 Aug 2021

Members of the Cell

Mr. Mukesh Kumar-----Executive Director
Mr. V. N Bhosale -----GM Sugar Process
Mr. C.S Hiremath ----- GM Technical
Mr. S. L Sambrekar-----Manager Distillery
Mr. B. G Mirajkar -----Manager Water & Environment / Cell Co-Ordinator
Mr. U.B Managavi -----Sr.Chemist Vinegar
Mr. K. M Katkar -----Sr. Chemist Sugar Process
Mr. V. M Dodadannavar -- WTP Chemist
Mr.S. M Hebbale ----- ETP Chemist
Mr. Iranna Gundakalle ----Distillery Chemist

Work Progress of Previous EMC/Review...

- 1) Cleaning and House keeping work is under progress.
- 2) WET-SCRUBBER maintenance work is under progress.
- 3) Environmental monitoring equipments maintenance work is under progress.

Agenda of the EMC monthly meeting:

- 1) The Bio gas digester sludge to be drain @ 5% by 10 Sep 2021 to enhance gas generation.
- 2) CPU Aeration tank Diffusers assembly work by 1 Oct 2021.
- 3) Cleaning the Sludge drying beds by 01 Oct 2021.

Next EMC Meeting is scheduled on 07 Sept 2021



Vishwaraj Sugar Industries Limited
Environment Management Cell

EMC.Meeting 06 July 2021

Members of the Cell

Mr. Mukesh Kumar-----Executive Director
Mr. V. N Bhosale ----- -GM Sugar Process
Mr. C.S Hiremath ----- GM Technical
Mr. S. L Sambrekar-----Manager Distillery
Mr. B. G Mirajkar -----Manager Water & Environment / Cell Co-Ordinator
Mr. U.B Managavi -----Sr.Chemist Vinegar
Mr. K. M Katkar -----Sr. Chemist Sugar Process
Mr. V. M Dodadannavar -- WTP Chemist
Mr.S. M Hebbale -----ETP Chemist
Mr. Iranna Gundakalle ----Distillery Chemist

Work Progress of Previous EMC/Review...

- 1) Compost yard cleaning and covering is under progress.
- 2) Water Trenches cleaning work is under progress.
- 3) Sludge pit cleaning work is under progress.

Agenda of the EMC monthly meeting:

- 1) Cleaning and housekeeping the plant.
- 2) Cleaning and reassembling the WET SCRUBBER by Sep 2021.
- 3) Maintenance of all online ETP Equipments by Oct 2021.

Next EMC Meeting is scheduled on 03 August 2021



Vishwaraj Sugar Industries Limited
Environment Management Cell

EMC.Meeting 1 June 2021

Members of the Cell

Mr. Mukesh Kumar-----Executive Director
Mr. V. N Bhosale -----GM Sugar Process
Mr. C.S Hiremath -----GM Technical
Mr. S. L Sambrekar-----Manager Distillery
Mr. B. G Mirajkar -----Manager Water & Environment / Cell Co-Ordinator
Mr. U.B Managavi, -----Sr.Chemist Vinegar
Mr. K. M Katkar -----Sr. Chemist Sugar Process
Mr. V. M Dodadannavar -- WTP Chemist
Mr.S. M Hebbale -----ETP Chemist
Mr. Iranna Gundakalle ----Distillery Chemist

Agenda of the EMC monthly meeting:

- 1) Cleaning of the compost yard and covering the remaining with the tarpaulin by Aug 2021.
- 2) Cleaning of all water trenches and collecting the rain water for the general usage by July 2021.
- 3) Cleaning the sludge pits by Aug 2021.
- 4) Preparation of the open lands for the green belt development by Sep 2021.

Next EMC Meeting is scheduled on 06 July 2021



Vishwaraj Sugar Industries Limited

Environment Management Cell Members Experience

Cell Members

S NO	Name	Designation	Experience(Years)
01	Mr. Mukeshkumar	Executive Director	35
02	Mr. V . N Bhosale	General Mananger(Process)	32
03	Mr. C .S Hiremath	General Manager(Technical)	20
04	Mr. S. L Sambrekar	Manager (Distillery)	26
05	Mr. B. G Mirajkar	Manager(W&E)	20
06	Mr. K.M Katkar	Sr.Chemist (Process)	10
07	Mr. V. M Doddannavar	Chemist (Co-Gen lab)	13
08	Mr. U. B Managavi	Sr. Chemist(Vinegar)	13
09	Mr. S. M Hebbale	Chemist (Environment)	13
10	Mr.Iranna Gundakalle	Chemist(Distillery Process)	06



Vishwaraj Sugar Industries Limited Bellad-Bagewadi

Annexure (ix)

Environmental Statement Form

VSL
Vishwaraj Sugar

CIN NO: U35110KA2005PLC007230

VSL/ENV/Form V/2021-22/010/1620

28 Sep 2021

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 Reg... 2020-21

Please find attached environmental statement in the prescribed format of
Form V of the Vishwaraj Sugar Industries Limited, Bellad -Bagewadi.

Thanking You,
Your's Faithfully,



Mukesh Kumar
Mukesh Kumar
(Executive Director)

29/09/21
ಸ್ವೀಕೃತಿ ಸಹಾಯಕ
ಕ.ಅ.ಮಾ.ನಿ.ಮಂ. ಬೆಳಗಾವಿ-2(ಬೆಳ್ಳೋಡಿ ಕೇಂದ್ರ)
(FORWARD)



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Environmental Statement Form -V

(See rule 14)

Environmental Statement for the financial year ending on 31st March 2021**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	MWhr	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 2020		

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

Sr No	Operation	During the previous year 2019-20	During the current Financial year 2020-21
Sugar			
01	Process	190	185
02	Domestic	10	10
Co-Generation			
01	Cooling and Boiler feed	205	200
Distillery			
01	Process	220	380
02	Cooling	30	50
03	Domestic	4.95	5.0
IML Bottling			



01	Process	10	NIL
Natural Alcohol Vinegar			
01	Process	180	180
03	Domestic	1	1

2. Process Water Consumption per product output

SR No	Name.of Product	Unit	Process water consumption per unit of product	
			During previous F/Y 2019-20	During current F/Y 2020-21
01	Sugar	m3/Ton	0.2418	0.29
02	Power	m3/MW	0.469	0.47
03	Distillery	m3/KL	6.34	4.32
04	IML Bottling	m3/Box	0.002177	NIL
05	Vinegar	m3/KL	5.522	4.16

Raw Material Consumption

Raw Material Consumption				
Sr No	Name of Raw Material	Units	Consumption of Raw Material Per Unit of output	
			2019-20	2020-21
Sugar				
01	Sugar cane	MT/MT	9.10	9.30
02	Lime	MT/MT	0.01	0.009
03	Sulphur	MT/MT	0.0029	0.0028
04	Mill Sanitation	MT/MT	0.00010	0.000072
05	Anti Scaling	MT/MT	NIL	-
06	Magnaflock	MT/MT	0.00002527	0.00003834
07	Turkey red oil	MT/MT	0.0000077	0.00000547
08	Viscosity reducer	MT/MT	0.0000337	0.00002394
09	Color Coagulant	MT/MT	0.0000272	0.0000299
10	Bleaching Powder	MT/MT	0.00000064	0.00000064
11	Caustic Soda	MT/MT	0.000325	0.000563
Cogen power/unit				
01	Bagasse	MT/Mwh	2.83	2.66
02	Coal	MT/Mwh	0.0146	0.00952
Distillery				
01	Molasses B Heavy	MT/KL	3.62	3.33
	Syrup	MT/KL	NIL	3.20
02	Coal	MT/KL	1.72	0.589
IML Bottling				
01	Rectified Spirit	KL/Box	0.004	NIL
Natural Alcohol Vinegar				
01	Spirit	KL/KL	0.141	0.17

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)	93 kg of COD/Day	124 mg/lit	Below Standard norms.(250 mg/l for COD & 100 mg/l for BOD)
	Wastewater(BOD)	35.25 kg of BOD/Day	47 mg/lit	
02	Sugar CPU Outlet Wastewater(COD)	63 kg of COD/Day	42 mg/lit	Below Standard norms.(250 mg/l for COD & 100 mg/l for BOD)
	Wastewater(BOD)	6 kg of BOD/Day	4 mg/lit	
03	Air mg/Nm ³ (PM)	736.4 Kg/day	97 mg/Nm ³	Below Standard norms(< 150 mg/Nm ³)
Distillery				
01	Distillery CPU Outlet Wastewater(COD)	34.3 kg of COD/Day	98 mg/lit	Below Standard norms.(250 mg/l for COD & 100 mg/l for BOD)
	Wastewater(BOD)	8.75 kg of BOD/Day	25 mg/lit	
02	Air mg/Nm ³ (PM)	21.49 kg/ day	52 mg/Nm ³	Below Standard norms(< 150 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 2019-20	During the current Financial year 2020-21
01	From Process	--	--
02	From Pollution Control Facilities	(5.1 spent oil from ETP) = 0.49 MT	(5.1 spent oil from ETP) = 0.2MT

Part - E**SOLID WASTES**

Sl No	Solid wastes	Total Quantity in MT	
		During the previous Financial year 2019-20	During the current Financial year 2020-21
01	From Process (By-Products)		
	Bagasse	138728.022	257706.79



	Press mud	23311.08	26514.2
	Ash	2080	3523
02	From Pollution Control Facilities		
	Biological Sludge (MT)	85.00	110
	Oil and Grease (MT)	0.490	0.2
03	Quantity recycled or reutilized within the unit		
	Bagasse as Fuel (MT)	138728.022	234929
	Press mud for compost (MT)	23311.08	26514.2
	Spent wash for compost (KL)	7538	56146
	Ash for compost (MT)	2080	3523
	Biological sludge as seed in composting (MT)	85	110
	Waste oil & Grease-(Qty in MT) Supplied to the recycler	0.490	0.2

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 0.2MT 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

The effluent after treatment is disposed for irrigation and gardening. The plantation details are enclosed. The cost of production is increased by 100 rupees per MT of sugar production and Rs two per Liter of R.S. Production. The Investment for pollution control measures are 28.Lakhs.

Emission Control Measures---10 Lakhs
 Water and Waste water management----5 lakhs
 Solid Waste management--- 5 Lakhs
 Green House Drive ----5 Lakhs
 Monitoring Aspects----2 Lakhs
 Environment Cell & PR---1 Lakhs

Part - H

Additional measures / investment proposal for environmental protection including abatement of pollution

100 KLPD Distillery productions started and CPU is commissioned. The treated condensates are used as makeup water for cooling towers.

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. Chemical treatment for spentwash is being tried and the results are awaited.

Plantation (Plantation Details during the year 2020-21)

Sl No	Name of the trees	Number planted
1	Bougainvillea	115
2	Coconut	14
3	Kanagale	15
4	Teak	42
5	Akesia	102
6	Daswal	18
7	Simorobha	15
8	Custard Apple	14
9	Peru	24
10	Lemon	08
11	Hibiscus	74
12	Bottle Brush	88
13	Sandal	54
14	Mango	18
15	Neem	37
16	Tamarind	39
17	Pongamia	98
18	Chikku	10
19	Kolias	33
20	Almond	94
21	Hebbat	42
22	Sivani	21
23	Honni	45
24	Sisavi	38
25	Casuarina	40
26	Cherry	05
27	Silver Oak	27
28	Sisama	11
29	Hameliya	74
30	Jakrapa	24
TOTAL		1239





SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati" Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.
Phone : Sangli - 0233 - 2301857 (M) 9372109522, 9890992118, 9890454493.
E-mail : bssubbarao@yahoo.com / bssharat@yahoo.com / bishagiyot@yahoo.com
QCI - NABET Accredited EIA Consultant Organization - Certificate No.
NABET : EIA : 1972 : RA 0159 valid upto June 12, 2022.

NABL Quality Assurance Laboratory Accredited Certificate No. 10 - 8121 valid upto 09.06.2021

TEST REPORT

Report Ref. No. : SEC/W-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV6
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By : SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Distillery CPU Outlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	6.98	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	98	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	25	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	606	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	48	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl	81	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	151	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

END of Test Report



B. Subbarao
Authorized Signatory
Technical Manager / Quality Manager





SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati" Opp. Sahayonagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.
Phone : Sangli - 0233 - 2401857 (Alt) 7372109522, 9890992118, 9890454492.

E mail : drsubbarao'senvironmentcenter@gmail.com / drsubbarao@yahoo.com / drsubbarao@yahoo.co.in

QC - NABET Accredited EIA Consultant Organization - Certificate No.

NABET / EIA / 1922 / RA 0159 valid upto June 12, 2027

NABL Quality Assurance Laboratory Accreditation Certificate No. LC 6121 valid upto 09-02-2021

TEST REPORT STACK EMISSIONS

Report Ref. No.	SEC/Stack/Sugar-VV/02-21
Report Date	02 March 2021
Name of industry	Vishwaraj Sugar Industries Ltd.
Address	Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.
Start Date of commencement of Sampling	16 February 2021
Start Time of commencement of Sampling	10:00 am
End Date of commencement of Sampling	16 February 2021
End Time of commencement of Sampling	10:30 am
Retention period of the remnant sample	30 days

PARTICULARS OF STACK

Stack attached to boiler	70 & 80 TPH
Stack Diameter	Outside - 4.23m & Inner - 3.63m
Stack Height	73.00 m
Stack Temperature	124°C
Stack Velocity of Flue Gases	9.4 m/s
Type of Fuel	Bagasse

POLLUTION PARAMETER RESULTS

Parameter	Results	Limits	Units	Method Used
Particulate Matter (PM)	97	150	mg/Nm ³	IS-11255mt(Part 1):1985, Reaffirmed 2003
SO ₂	30	80	mg/Nm ³	IS-11255 (Part 2): 1985 Reaffirmed 2009
NOx	46	80	mg/Nm ³	IS-11255 (Part 7): 2005 Reaffirmed 2012

Note: The test report shall not be reproduced except in full without written approval of the laboratory.

Analyzed By



Authorized Signatory
Technical Manager/ Quality Manager



PAN NO. AAMFD6620P ■ ISO 9001:2008, OSHAS 18001:2007 CERTIFIED ■ REGISTRATION NO. PN00000996

GSTIN : 27AAMFD6620P1ZW ■ TAN : KLPD02394A



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati" Opp. Sahayonagar A's E B Road, Vishrambag Sangli - 416 415
Phone : Sangli - 0233 - 2301857, IM, 9372110022, 9890992118, 9890454493
E-mail : bssubbarao@yahoo.com / bssharat@yahoo.com / bsnagiyati@yahoo.com
QCI - NABET Accredited EIA Consultant Organization - Certificate No.
NABET / EIA / 1922 / RA 0154 valid upto June 12 2022.

NABL Quality Assurance Laboratory Accreditation Certificate No. LC - 6121 valid upto 09-08-2021

TEST REPORT

Report Ref. No. : SEC/W-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV10
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Sugar CPU Outlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	7.10	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	42	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	< 4	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	66	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	7	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl	10	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	6	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except as authorized by the client.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

END of Test Report





SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati" Opp. Sahayograider, M.S.E.P. Road, Vishrambag, Sangli - 416 415.

Phone : Sangli - 0233 - 2301857, (M) 9372109522, 9890992118, 9690454493.

E-mail : bssubbarao@yahoo.com / bssharati@yahoo.com / bsnagiylili@yahoo.com

QCI - NABET Accredited EIA Consultant Organization - Certificate No.

NABET / EIA - 1922 - RA-159 valid upto June 12, 2022.

NABL Quality Assurance Laboratory Accreditation Certificate No. 70 - 6111-2413 up to 06-24-2021

TEST REPORT STACK EMISSIONS

Report Ref. No.	SEC/Stack/Distillery-VV/02-21
Report Date	02 March 2021
Name of industry	Vishwaraj Sugar Industries Ltd.
Address	Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.
Start Date of commencement of Sampling	16 February 2021
Start Time of commencement of Sampling	11:30 am
End Date of commencement of Sampling	16 February 2021
End Time of commencement of Sampling	12:00 pm
Retention period of the remnant sample	30 days

PARTICULARS OF STACK

Stack attached to boiler	10 & 12 TPH
Stack Diameter	0.90 m.
Stack Height	43.00 m
Stack Temperature	138°C
Stack Velocity of Flue Gases	8.4 m/s
Type of Fuel	Coal/Biogas

POLLUTION PARAMETER RESULTS

Parameter	Results	Limits	Units	Method Used
Particulate Matter (PM)	52	150	mg/Nm ³	IS-11255 (Part 1): 1985, Reaffirmed 2003
SO ₂	22	80	mg/Nm ³	IS-11255 (Part 2): 1985, Reaffirmed 2009
NO _x	37	80	mg/Nm ³	IS-11255 (Part 7): 2005, Reaffirmed 2012

Note: The test report shall not be reproduced except in full without written approval of the laboratory.

Analyzed By



Authorized Signatory
Technical Manager/ Quality Manager



PAN NO. AAMFD6620P ■ ISO 9001:2008, OSHAS 18001:2007 CERTIFIED ■ REGISTRATION NO. PN00000196

GSTIN : 27AAMFD6620P1ZW ■ TAN : KLPD02394A

Monitoring Data Sheet

Sr. No.	Questions	Remarks
1	Name of the Industry/ Mine/PSU	Vishwaraj Sugar Industries limited .
2	Legal Status (Pvt Ltd/ Public/Government)	Public Limited
3	Title and details of EC (MoEFCC) and validity details	Enclosed copy of EC
4	Number of EC's obtained till date (details of all EC's)	Enclosed copies
5	Have you obtained any corrigendum's/ amendments / expansion etc. of issued EC. If so provide full details	Enclosed copies
6	Location of the Plant/ Mine-- Latitude / Longitude (KML File, Toposheet)	Bellad Bagewadi, Taluka-Hukkeri Dist-Belagavi Karnataka. PIN-591305 Lattitude-16°16'34.4" Longitude-74°42'37.5"
7	Project Address for correspondence (Email, Phone, Fax, Web etc.)	Vishwaraj Sugar Industries limited . Bellad Bagewadi, Taluka-Hukkeri Dist-Belagavi Karnataka. PIN-591305 n Email-info@vsil.co.in
8	Contact Person name and Designation	Mr.Mukeshkumar . Executive Director
9	Contact details of authorised person (Mobile, Office, Fax, Email, Web)	Mobile-9686698931, Email-ed@vsil.co.in
10	Nearest Railway Station, Air Port, Port, Town, Police Station, big hospital, fire station	Ghataprabha
11	Nearest wildlife Sanctury, Eco sensitive Zone, Notified Archeological sites , Forest etc.	Nil
12	Nearest River/ Sea/ canal/ lake/ other water bodies and distance from the plant	Ghataprabha
13	Total Project Area (Sq.Mtrs/ Acres)	531400/132.3
14	Total project Cost (Lakhs/ Crores)	43947.43 Lacs
15	Total capacity (Production/ built up area/ Mining area/ MW etc.)	11000 TCD Sugar cane crushing,39 MWhr Co-Gen,100 KLPD Distillery,75 KLPD Vinegar,15 MTD CO2 plant
16	Date of previous visit by MoEFCC RO Officials	07-Jan-15
17	Brief note about project (Maximum 1-2 A4 size pages)	Attached
18	Project Start date and year	July 2000
19	Has the project gone for expansion (Yes/ No)-- If yes how many times and details	Yes. Attached Details
20	Date of commissioning and start of operations (date and year)	Dec 2001
21	Total number of employees (Regular/ Contractual/ daily Labour)	Permanent-863 Seasonal-43 BVG-51 Total-957
22	Is a doctor/ nurse available with first aid facilities 24x7	Yes
23	Is an ambulance and driver available 24X7	Yes
24	Do you have a fire brigade/ fire fighting arrangements (equipments)	Yes
25	Do you have any accreditations like ISO/ Awards	Applied

26	Security arrangements (Guards/ fencing/ CC TV)	Yes
27	Are you situated in any Industrial Estate/ SEZ/ Park	No
28	what is the nearest village/ human habitat located	Bellad-bagewadi
29	Are you storing any raw material or finished material in bulk in open areas/ yards within or outside the plant area. If yes provide details	No
30	Provide details of submission of latest half yearly compliance report (date of submission) to MoEFCC RO	Enclosed Copy
31	Have you uploaded EC along with latest compliance reports and also consent copies in website. If yes, provide link and if No, provide reasons	Yes . Website: vsil.co.in/our-plant
32	Are you regularly submitting monthly/ quarterly monitoring reports to State PCB. If yes, provide details and If no, provide reasons	Yes. Find Attached Report
33	Please provide latest Environmental Audit Statement (Form V)	Enclosed copies
34	Please provide latest Hazardous waste generation report (Form IV)	Enclosed copies
35	Provide a copy of EMP, R&R Plan and Issues raised during Public hearing	EMP Attached



No.J.17011/48/2000-IA II
Government of India
Ministry of Environment & Forests
IA.Division

Paryavaran Bhavan, CGO Complex,
Lodi Road, New Delhi-110003

Tele No 4363964

Dated 4th May, 2000

To,
The Managing Director,
Vishwanath Sugars Limited,
Bellad Bagewadi Village,
Belgaum - 591305
Karnataka

Subject:- 35 KLPD Distillery Unit at Belgaum, Karnataka by M/s. Vishwanath Sugars - Environmental Clearance.

Sir,

This has reference to your communication No. nil dated 1st August, 2000 and subsequent clarifications furnished vide letter dated 4th November, 2000 and 23rd February, 2001 on the above mentioned project. Ministry of Environment and Forests has carefully examined your proposal for manufacture of 35 KLD of rectified spirit from the new distillery unit at Bellad-Bagewadi in Belgaum, Karnataka. The company has acquired 80.76 ha of land for the above project. No forestland or rehabilitation/resettlement is involved due to land acquisition. The total water requirement for the project is about 1250 m³/day and will be met through Ghataprabha River for which approval from State irrigation Deptt has been obtained. The total cost of the project is about Rs. 25 crores. It is also observed that NOC from Karnataka State Pollution Control Board has been obtained and the Public Hearing Panel has recommended the proposal.

The Ministry of Environment and Forests hereby accords environmental clearance under EIA Notification dated 27th January, 1994 subject to strict compliance of the following conditions

SPECIFIC CONDITION:

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

- ii. The company should carry out necessary process modification to ensure that the quantity of spent wash generated after expansion should not exceed 12 m³/Kl of product as prescribed under EPA.
- iii. The company should ensure compliance of the Ministry's policy dated 24th October 2000 (copy enclosed) regarding treatment of spent wash from distillery units. As reflected in the EMP, the spent wash generated should be used for composting with pressmud/bagasse/agro residue preceded by primary treatment. During monsoon period the treated effluent should be stored in a lined lagoon of a minimum capacity of 90 days. Operation of the distillery unit should be regulated so as to ensure there will be no discharge of treated spent wash into surface water body due to monsoon run off. The spent wash should be stored in impervious lined pits.
- iv. Occupational health surveillance program in the factory must be strengthened to include Lung Function Test, Sputum analysis and chest X-ray for monitoring the health of workers especially those in the bagasse handling sections.
- v. The company must obtain prior permission of the ministry if it chooses to opt for ferti-irrigation using its treated effluent meeting the prescribed standards at a subsequent stage.

GENERAL CONDITIONS :

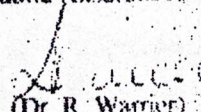
- i. The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- iii. The AAQ should be regularly monitored in respect of SPM, SO₂ and NO_x. The locations of the monitoring stations should be fixed up depending on the wind rose pattern during that period.
- iv. Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.
- v. The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. Green Belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the plant. A minimum of 25% of the total land acquired should be developed as green belt in consultation with the local DFO.

- vii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.
- viii. A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions. The project authorities will provide adequate funds both recurring and non recurring 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 provided should not be diverted for any other purpose.
- ix. The implementation of the project vis-a-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore /State Pollution Control Board/Central Pollution Control Board. A six monthly compliance status report along with the monitored data should be submitted to the monitoring agencies.
- x. The Project Proponent should advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry and Forests at <http://WWW.envfor.nic.in>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bangalore.
- xi. The Project Authorities should inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.

The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.

The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

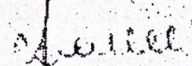

(Dr. R. Warrier)
Additional Director

Copy to -

1. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. Chairman, Karnataka State Pollution Control Board, No. 25, 7th & 8th Floor Public Utility Building, Mahatma Gandhi Road, Bangalore- 560001.

3. Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangalam, Bangalore-560034
4. Secretary, Ecology & Environment Deptt. Government of Karnataka, 644 M.S. Building, Bangalore- 560001
5. Adviser (EI Division), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi
6. Director (Monitoring Cell), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi
7. Guard File
8. Monitoring File
9. Record File

Yours faithfully,



(Dr R Warner)

Additional Director

F. No. J-11011/453/2009-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

E-mail : pb.rastogi@nic.in

Telefax : 011: 2436 7668

Dated 24th November, 2011

To, ✓
Shri Mallikarjun K Pujar, (Director)
M/s Vishwanath Sugar and Steel Industries Limited
Bellad-Bagewadi- 591305, Taluka Hukeri
District Belgum, Karnataka

E-mail : vishwasugars@gmail.com ; Fax : 08333-267211.

Subject: Expansion of Sugar Plant (5,500-11,000 TCD), Molasses based Distillery Unit (35 KLPD to 100 KLPD), ENA Plant (20 KLPD to 75 KLPD) and Co-generation Power Plant (39 MW to 64 MW), establishment of Ethanol Plant (30 KLPD) and D.G. sets (2x1 MW) at Village Bellad-Bagewadi, Taluka Hukeri, District Belgum, Karnataka by M/s Vishwanath Sugar and Steel Industries Limited, Karnataka - Environmental Clearance reg.
Ref. : Your letter no. VSSIL/303/2011-12 dated 19th April, 2011.

Sir,
Kindly refer your letter dated 19th April, 2011 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP report alongwith public hearing report and subsequent communications vide letters dated 30th July, 2011, 18th August, 2011 and 22nd September, 2011 on the above mentioned subject.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for expansion of Sugar Plant (5,500-11,000 TCD), molasses based Distillery Unit (35 KLPD to 100 KLPD), ENA Plant (20 KLPD to 75 KLPD) and Co-generation Power Plant (39 MW to 64 MW), establishment of Ethanol Plant (30 KLPD) and D.G. sets (2x1 MW) at Plot Nos. 136, 139/1, 140/1, 140/2, 140/3, 140/4, 141/1, 148/3, 149/2, 149/3, 150/1, 150/2A, 150/2B, 151/2A, 151/1, 151/2C, 152 at Village Bellad-Bagewadi, Taluka Hukeri, District Belgum, Karnataka. No litigation/ court case is pending against the project. Total project cost is Rs. 175.00 Crores. Total plot area is 132.85 acres. No reserved forest/wildlife sanctuary is located within 10 Km. Distillery, sugar and cogeneration will be operated for 270 days, 200-220 days and 300 days respectively.

3.0 ESP alongwith stack of adequate height will be provided to bagasse/coal fired boiler (100 TPH). Bag filter alongwith stack of adequate height will be provided to coal/bagasse fired boiler (13 TPH). Adequate stack height will be provided to DG set (2x1 MW). Total fresh water requirement from Ghataprabha River, will be increased from 405 m³/day to 800 m³/day, 730 m³/day to 1105 m³/day and 385 m³/day to 1000 m³/day for sugar unit, cogeneration and distillery respectively, after expansion. Spent wash from distillery will be treated in anaerobic digester followed by evaporation unit and bio-composting with pressmud. Effluent from sugar

unit will be treated in the effluent treatment plant (ETP). Bagasse will be used as boiler fuel. Coal boiler ash will be sold to brick manufacturers. Yeast sludge and press mud will be used for bio-composting.

4.0 Public hearing/public consultation meeting was held on 28th February, 2011.

5.0 All molasses based distilleries are listed at S.N. 5(g) (i) under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 3rd and 25th meetings held during 15th - 16th September, 2009 and 28th-30th July, 2011 respectively. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- i) All the specific conditions and general conditions specified in the environmental clearance accorded vide Ministry's letter no. J-11011/48/2000-IA-II(I) dated 4th May, 2000 and SEIAA vide 19/IND/2007 dated 16th April, 2008 shall be implemented.
- ii) Distillery unit shall be based on molasses based only and no grain based distillery unit shall be operated.
- iii) Efforts shall be made to reduce PM₁₀ levels in the ambient air and a time bound action plan shall be submitted. As proposed, Electrostatic precipitator (ESP) alongwith stack of adequate height should be provided to boiler (100 TPH) to control particulate emission within 100 mg/Nm³. Bag filter alongwith stack of adequate height should be provided to boiler (13 TPH) to control particulate emission within 100 mg/Nm³. 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 device shall be monitored regularly. Stack monitoring report shall be submitted to the Ministry's Regional Office at Bangalore.
- iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v) 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 & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system 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 regularly monitored and records shall be maintained. The emissions shall conform to the limits prescribed by Karnataka State Pollution Control Board (KSPCB).

- vi) Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emissions.
- vii) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- viii) 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 MOEF, the respective Zonal office of CPCB and the KSPCB. The levels of PM₁₀, PM_{2.5}, SO₂, NO_x and 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.
- ix) Company shall follow good management practices viz. collection of waste yeast sludge from fermentation section in a closed system and proper disposal, reduced volume of effluent by adopting strategic approaches, closed drains carrying spentwash to the treatment units, minimization of fugitive emission from anaerobic treatment, proper collection & handling of excess sludge generated from the anaerobic & aerobic treatment units, minimum retention of treated & untreated spentwash in the lagoons, effective composting of the spentwash by controlled effluent spraying through mechanical system to avoid spillages & 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 odour from the distillery unit.
- x) Total fresh water requirement from Ghataprabha river shall not exceed 10 KL/KL of alcohol (i.e. 1000 m³/day) for distillery, 800 m³/day for sugar unit and 1105 m³/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.
- xi) Spent wash generation should not exceed 10 KI/KI of alcohol. Spent wash from distillery (100 KLPD) will be treated in anaerobic digester followed by evaporation unit and bio-composting. Spentlees, effluent from utilities and cogeneration unit should be treated in effluent treatment plant (ETP) and water quality of treated effluent should meet the norms prescribed by CPCB/SPCB 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.
- xii) Wastewater generation from the sugar unit shall not exceed 100 litres per tonne of cane crushed. Effluent from sugar unit shall be treated in the effluent treatment plant comprising neutralization tank followed by two stage aeration system.
- xiii) As proposed, no effluent from sugar, distillery and co-generation power plant shall be discharged outside the premises and Zero discharge shall be adopted.
- xiv) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

- xv) 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.
- xvi) Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area should be set up. Sampling and trend analysis monitoring must be made on monthly 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.
- xvii) Baggase storage shall be done in such a way that it does not get air borne or fly around due to wind.
- xviii) Company shall submit a copy of Memorandum of Understanding (MoU) with coal supplier for imported coal to the Ministry's Regional Office at Bangalore.
- xix) Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne 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.
- xx) 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 fire from the alcohol storage tank.
- xxi) 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.
- xxii) 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.
- xxiii) 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.
- xxiv) Green belt shall be developed in 33 % of plot area to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO. Thick greenbelt with suitable plant species shall be developed around the proposed distillery to mitigate the odour problem.
- xxv) All the commitments made during the Public Hearing / Public Consultation meeting held on 28th January, 2011 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.

- xxvi) 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 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.

B. GENERAL CONDITIONS:

- i. The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board.
- ii. 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.
- iii. 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.
- iv. 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).
- v. 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.
- vi. The Company shall obtain Authorization for collection, storage and disposal of hazardous waste under the 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.
- vii. During transfer of materials, spillages shall be avoided and gulland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- viii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- ix. 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.

- x. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- xi. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.
- xii. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xiii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiv. 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.
- xv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- xvi. 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 the website of the company.
- xvii. The environmental statement for each financial year ending 31st 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.
- xviii. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the

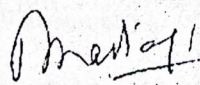
locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

- xix. 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.

8.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

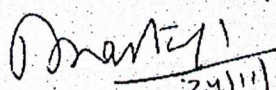
9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

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.


(Dr. P. B. Rastogi)
Director

Copy to :

1. The Secretary, Department of Environment & Ecology, Govt. of Karnataka, Room No. 708, Gate 2, Multi Storied Building, Dr. Ambedkar Veedhi, Bangalore - 560 001 secyenv-fee@karnataka.gov.in
2. The Chief Conservator of Forests, Regional Office (Southern Zone, Bangalore) Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034.
3. The Chairman, Central Pollution Control Board, Pariveshi Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Karnataka State Pollution Control Board, #49, Parisara Bhavana, Church Street, Bangalore-01 (Karnataka).
5. Adviser, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.


(Dr. P. B. Rastogi)
Director

F. No.J-11011/453/2009-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA Division)

Indira Paryavaran Bhawan
Jor Bagh Road, N Delhi - 3
Dated: 11th January, 2019

To
M/s Vishwaraj Sugar Industries Limited
Village Bellad-Bagewadi, Taluka Hukkeri,
District **Belgaum** (Karnataka)

Sub: Expansion of Sugar Plant, Molasses based Distillery, ENA Plant, Co-generation Power Plant and Establishment of Ethanol Plant 30 KLPD by M/s Vishwaraj Sugar Industries Limited at Village Bellad-Bagewadi, Taluka Hukkeri, District Belgaum (Karnataka) - Extension of validity of Environmental Clearance - reg.

Sir,


This refers to your online proposal No. IA/KA/IND/23377/1910 dated 4th October, 2018 for extension of validity of the environmental clearance dated 24th November, 2011 granted by the Ministry in favour of M/s Vishwanath Sugar and Steel Industries Limited for the project 'Expansion of Sugar Plant (5,500 to 11,000 TCD), Molasses based Distillery Unit (35 KLPD to 100 KLPD), ENA Plant (20 KLPD to 75 KLPD) and Co-generation Power Plant (39 MW to 64 MW), establishment of Ethanol Plant 30 KLPD' at Village Bellad-Bagewadi, Taluka Hukkeri, District Belgaum (Karnataka).

2. The said environmental clearance was later transferred in the name of M/s Vishwaraj Sugar Industries Limited vide this Ministry's letter dated 10th September, 2013. Now, the project proponent has requested for extension of validity of the environmental Clearance in view of inability to implement the project due to financial constraints.

3. The proposal was considered by the Expert Appraisal Committee (Industry-2) in the Ministry in its meeting held on 29-31 October, 2018. The Committee has recommended for extension of validity of the environmental clearance dated 24th November, 2011 for a period of three years i.e. till 24th November, 2021, as per the provisions of the EIA Notification, 2006, read with subsequent amendments.

4. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval for extension of validity of the environmental clearance dated 24th November, 2011 to the above project for a period of three years i.e. up to **24th November, 2021**.

5. All other terms and conditions stipulated in the environmental clearance dated 24th November, 2011 shall remain unchanged.


(S K Srivastava)
Scientist E

SYNOPSIS

Name of the Company		VISHWARAJ SUGAR INDUSTRIES LIMITED		
Registered Office		Bellad Bagewadi, Taluka Hukkeri Dist. Belgaum, Karnataka - 591 305		
Constitution		Public Limited Company		
Date of Incorporation		02.05.1995		
Contact		Ph. +91 08333 251251 Fax +91 08333 251322 Email : info@vsil.co.in Website : www.vsil.co.in		
Board of Directors	Name		Designation	
	Umesh V. Katti		Chairman	
	Nikhil U. Katti		Managing Director	
	Mukesh Kumar		Executive Director (Professional Director)	
	Lava Ramesh Katti		Whole Time Director	
	Kush Ramesh Katti		Whole Time Director	
	Surendra S. Khot		Independent Director	
	PramodPratibhaMunnolli		Independent Director	
	BasavarajVeerappaHagaragi		Independent Director	
	ShivanandBasavanneppaTubachi		Independent Director	
	VishnukumarMahadeo Kulkarni		Independent Director	
	Infra - structure details	Land		132.34 Acre
Factory Building		10,671 Sq. Mtr. (built-up area)		
Sugar Godown		13,668.49 Sq. Mtr.		
Administrative office		2,000 Sq. Mtr. (built-up area)		
Staff quarters area		8,328 Sq. Mtr. (built-up area)		
Staff quarters		112 Nos.		
Storage capacity				
Sugar		80,000 MTs.		
Vinegar		30,00,000Ltrs.		
RS		11,70,000Ltrs.		
ENA		10,10,000Ltrs.		
Ethanol		10,00,000 Ltrs		
Products & Capacity	Products	Licensed	Installed	Unit
	Sugar	11,000	10,500	TCD
	Distillation	100	100	KLPD
	IML	5,800	5,800	Boxes/day
	Vinegar	70	70	KLPD
	Power	36.40	36.40	MW

INTRODUCTION

- The Company was incorporated in the year 1995 as a public limited company at Bangaluru, Karnataka.
- The Company has an integrated sugar production facility located at Bellad Bagewadi, Belgaum District in North West Karnataka, which has been classified as a High Recovery Zone for sugar production by the Government of India.
- The Company is engaged in manufacturing of Sugar, Alcoholic Spirits by Distillation including Ethanol, Blending and Bottling of Indian Made Foreign Liquor (IMFL), Generation of Power and manufacture of Vinegar from Alcohol.
- The Company uses modern technology to fully utilize the available resources to ensure maximum crushing capacity and maximizes the production of Sugar. Besides it has installed Continuous Vacuum Pans, which consumes less steam for boiling of sugar syrup.
- In the process of Sugar Production, by-products such as Bagasse and Molasses are produced which are used as raw materials to generate Power and Ethanol production respectively.
- The Company also makes Dehydrated Ethanol for blending with petroleum products.

PROMOTERS

- **Mr. Umesh Vishwanath Katti** is a Promoter and Director of the Company. He has done his Pre-University Course from K. L. E. Society's Lingaraj College, Belgaum. He has more than 3 decades experience in the sugar industry. He is currently a Cabinet Minister in the Govt of Karnataka holding the portfolio of Food & Civil Supplies and Consumer Affairs. He has continuously been a Member of Karnataka Legislative Assembly since 1985 except for the period 2004-2008
- **Mr. Ramesh Vishwanath Katti** is a Promoter of the Company. He is occupying several prestigious positions like Chairman of The Belagavi District Central Co Operative Bank Limited (Belagavi), Director of Karnataka State Federation of Co-operative Sugar Factories Limited (Bengaluru), Director of Chamber of Commerce and Industries, Belgaum. He was a Member of Parliament from Chikkodi Parliamentary Constituency from 2009-2014
- **Mr. Nikhil Umesh Katti** is a Promoter and Managing Director of the Company. He holds a degree of Masters in Business Administration (MBA) in International Marketing from the University of Wales. He has nearly fourteen (14) years of experience in handling and managing the business especially the distillery unit of the Company.
- **Mr. Lava R. Katti** is a Promoter and Director of the Company. He has done his graduation from College of Business Administration, Hubli in Business Administration in the year 2010 and Masters in Business Administration from University of Wales in the year 2012.

- **Mr. Kush R. Katti** is a Promoter and Director of the Company. He has done his graduation from College of Business Administration, Hubli in Business Administration in the year 2010.

PLANT DETAILS

The present licensed and installed manufacturing capacity for various products is given below:

S. No.	Products	Licensed Capacity	Installed Capacity	Unit
1.	Sugar	11,000	10,500	TCD
2.	Distillation	100	100	KLPD
3.	IML	5800	5800	Boxes/day
4.	Vinegar	70	70	KLPD
5.	Power	36.40	36.40	MW

EXISTING FINANCIAL ARRANGEMENT

(Rs. In Crore)

I	Term Loans	Existing banker	Sanctioned	O/s as on 20.02.2021
	Term Loan	BDCC Bank	40.00	21.67
	Term Loan	BDCC Bank	30.00	15.00
	Term Loan	BDCC Bank	25.00	13.75
	Term Loan	BDCC Bank	22.50	22.50
	Soft Loan	BDCC Bank	18.42	15.35
	Sub Total (A)		135.92	88.27
II	Working Capital	BOI	115.00	96.28
	Working Capital	SBI	60.00	57.75
	FITL Loan	BOI	4.92	4.92
	FITL Loan	SBI	2.82	2.82
	Sub Total (B)		182.74	161.77
	Total (A+B)		318.66	250.04

KEY FINANCIALS INDICATORS

(Rs. In Crore)

Particulars	2018 Audited	2019 Audited	2020 Audited	31.12.2020 (Unaudited)
Turnover	221.81	306.80	376.74	264.73
EBDITA	35.09	26.05	39.77	42.54
Interest	20.83	36.36	41.74	26.56
Depreciation	13.20	13.34	14.57	10.98
PBT	1.06	(23.65)	(16.54)	5.00
PAT	(3.13)	(17.38)	(7.67)	4.17
Cash Generation	14.26	(10.55)	(1.97)	15.99
Share Capital	34.56	34.56	37.56	37.56
Reserve & Surplus	206.48	176.94	184.27	188.44
Networth	241.04	211.50	221.83	225.99
Net block of fixed assets	271.89	275.67	288.37	282.63
Secured Term Loans	49.97	84.94	107.62	91.18
Short Term Borrowings	264.68	253.86	239.09	213.61

VSIL/MoEFCC/HYR-2 /2020-21/002/1298

Date:-02-08-2021

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,

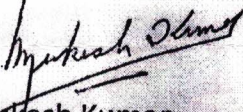
Sub :- Submission of the Half Year Report Reg...
Ref No :- J-11011/453/2009-IA-II(I) Dated 11 Jan 2019

Received by e-mail on
25/08/2021
C/S

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 Oct 2020 to 31 March 2021

Thanking You,
Yours faithfully,


Mukesh Kumar
(Executive Director)




DESDO/SH/21
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forests & Climate Change
क्षेत्रीय कार्यालय, दक्षिण घटक
Regional Office, Southern Zone
केन्द्रीय सदन, चौथा तल, कोरमंगला
Kendriya Sadan, 4th Floor, Koramangala
बंगलूरु/Bengaluru-560 034

VSL
Vishwaraj Sugar
Industries Ltd.

CIN : L85110KA1995PLC017730

VSIL/KSPCB/HWM & Form IV/2020-21/002 597

Date:-14-06-2021

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


Sir,


Sub: - Furnishing Annual Returns (Form-4) & Manifest (Form -10) For the Financial Year 2020-21
Hazardous Waste Details

For your kind perusal please find Form No 4 and Hazardous waste manifest of our industry " Vishwaraj
Sugar Industries Limited" of the season 2020-21.

Thanking You,

Yours faithfully,


Mukesh Kumar


ಸ್ವೀಕೃತಿ ಸಹಾಯಕ
ಕ.ಪ.ಪ.ನಿ.ಮಂ. ಬೆಳಗಾವಿ-2(ಚಕ್ಕೋಡಿ ಕಛೇರಿ)
(INWARD)



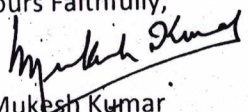
To
 The Environmental Officer
 Regional Office: Belgavi-2
 Karnataka State Pollution Control Board,
 Plot No-3224/3, "Hanuman Nivas",
 1st Floor, B K Collage Road, Chikkodi,
 Belgavi District-591201,

Sub :- Furnishing Annual Returns (Form-4) & Manifest (Form -10) For the Financial Year 2020-21
 Hazardous Waste Details

Name and address of the industry	Category of Hazardous waste generated	Quantity of Hazardous waste as per Authorization issued (MT/Annum)	Quantity of Hazardous Waste stored as on 01-04-2020(MT/Annum)	Quantity of Hazardous Waste Generated during 2020-21 (MT/Annum)	Quantity disposed (TSDF/Re-process/incinerator /Co Processed in cement Kiln/Recycler)(MT/Annum)(2020-21)	Quantity of Hazardous Waste Stored as on 31.03.2021
VISHWARAJ SUGAR INDUSTRIES LTD BELLAD-BAGEWADI-591305 TAL-HUKKERI, DIST- BELAGAVI,	5.1 (Used or Spent Oil)	0.523 MTA	100LTRS	200LTRS	300 LTRS	NIL

Thanking You,

Yours Faithfully,


 Mukesh Kumar
 (Executive Director)

Form 4

[See rules 6(5), 13(8), 16(6) and 20(2)]

Form for Filling Annual Returns

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April 2020 to March 2021]

1. Name and Address of facility :

Vishwaraj Sugar Industries Limited
Bellad Bagewadi, Tal-Hukkeri, Dist-Belagavi-591305

2. Authorization No and Date of Issue: H- 111493 Dated: 17/10/2019

3. Name of the authorized person and full address with telephone, fax number and e-mail.

Name : Mr. Mukesh kumar (Executive Director)

Address: F201.MantriParadise, Apartment, AerakereGate, Bannerghatta Road,
Bengaluru – 560076

Ph. (08333)251251

Fax (08333)251322

E-Mail: ed@vsil.co.in

**4. Production during the year (product wise).wherever applicable Sugarcane
Crushing:908954.56 MT**

Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise

Used spent oil: Cat 5.1 QTY: 0.2 MT

2. Quantity dispatched

(i) To disposal facility: Nil

(ii) To recycler or co-processors or pre- processor: 0.2 MT

(iii) Others: Nil

3. Quantity utilized in- house, if any – Nil

4. Quantity in storage at the end of the year – Nil

Part B. To be filled by Treatment, storage and disposal facility Operators

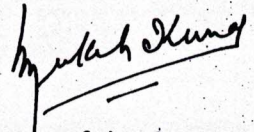
1. Total quantity received – NA
2. Quantity in stock at the beginning of the year – NA
3. Quantity treated – NA
4. Quantity disposed in landfills as such and after treatment – NA
5. Quantity incinerated (if applicable) - NA
6. Quantity processed other than specified above – NA
7. Quantity in storage at the end of the year – NA

Part C: To be filled by recycler or co-processors or other users

1. Quantity of waste received during of the year –NA
 - i) Domestic sources:
 - ii) Imported(if applicable):
2. Quantity in stock at the beginning of the year ---NA
3. Quantity recycled or co- processed or used---- NA
4. Quantity of waste generated ---NA
5. Quantity of waste disposed --- NA
6. Quantity of re-exported (wherever applicable) ---NA
7. Quantity of products dispatched (Wherever applicable) – NA
8. Quantity in storage at the end of the year ---NA

Date: 14 June 2021

Place: Bellad Bagewadi


Signature of the Occupier

Proceedings of Environmental Public Hearing in respect of M/s. Vishwanath Sugars Limited, Bellada Bagewadi Village, Hukkeri Taluk, Belgaum District on 28-02-2011 at 11:00 A.M. in the existing industry premises.

Sl. No.	Name of the officers	Designation
OFFICERS PRESENT		
1	Sri. P.S. Mallapur	Presiding Officer of the public hearing and Additional Deputy Commissioner, Belgaum District, Belgaum
2	Sri. S. K. Vasudeva	Regional Officer, Karnataka State Pollution Control Board, Belgaum
OTHER BOARD OFFICERS PRESENT		
3	Dr. H.R. Putaraju	Asst. Environmental Officer, KSPCB, Belgaum
4	Sri. Pradeep S. Mamdapur	Asst. Environmental Officer, KSPCB, Belgaum
INDUSTRY PROPONENTS PRESENT		
5	Sri. Nikhil U. Katti	Chairman, M/s. Vishwanath Sugars Limited
6	Sri. M.K. Poojar	Managing Director, M/s. Vishwanath Sugars Limited
7	Sri. Mukesh Kumar	Executive Director, M/s. Vishwanath Sugars Limited
8	Sri. A. R. Chale	Environmental Officer of M/s. Vishwanath Sugars Limited
9	Dr. B. Subba Rao	Consultant of the industry
10	Sri. Munavalli	Consultant of the industry

M/s. Vishwanath Sugars Limited is an existing industry engaged in the crushing of sugar cane - 5500TCD, distillery - 35KLPD, co-gen plant - 39MW, IML bottling - 2500Boxes per day and ENA - 20KLD. Now, the industry authority is proposing to increase existing production capacity of crushing of sugar cane from 5500TCD to 11000TCD, distillery - from 35KLPD to 100KLD, co-gen plant from 39MW to 64MW, IML bottling from 2500Boxes per day to 5000Boxes per day and ENA from 20KLD to 75KLD and also they have proposed to establish new ethanol plant of capacity 30KLD and to install 2nos of DG set of capacity 1MW each.

In this connection, the industry authorities have applied for environmental clearance as per the provisions of Environmental Impact Assessment notification dated 14-09-2006 to the Ministry of Environment and Forest, Government of India in the prescribed format. They have also applied for CEE (exp) of the Board for the enhancement of production capacity and for the establishment of new ethanol plant of capacity 30KLD and to install 2nos of DG set of capacity 1MW each and the applications are under process. Further, industry authorities have to obtain environmental clearance from MOEF Government of India as per EIA notification dated 14-09-2006 and is required to go through environmental public hearing. The MOEF, Government of India vide letter dated 08-10-2009 have requested the industry authorities to approach the SPCB to arrange for conduct of Public Hearing. As per the request of the industry authority dated 07-07-2010, the environmental public hearing is being conducted by the Board.

Accordingly, as per procedure the Board has issued public hearing notification 30 days prior to public hearing dated 28-01-2011 in the "Prajavani" and in the "The Hindu" news papers. The draft Rapid Environment Impact Assessment (REIA) report and executive summary along with applications were kept in the following designated places as per the notification

Sl. No.	Name of the place
1	Deputy Commissioner Office, Belgaum
2	Chief Executive officer, Zilla Panchayat, Belgaum

[Signature]
28/2/11



3	District Industries centre, Belgaum
4	Town Panchayat, Hukkeri, Belgaum District
5	Village Panchayat Office, Belladabagewadi
6	Regional Office, KSPCB, Belgaum
7	South Zonal office, Ministry of Environment and Forest, Bangalore
8	Help Desk, KSPCB, Bangalore

The Deputy Commissioner, Belgaum has authorized additional Deputy Commissioner, Belgaum to preside over the meeting and to conduct the transaction required under the law. Further, the Regional Senior Environmental Officer, Dharwad has authorized Regional Officer, Karnataka State Pollution Control Board, Belgaum to conduct the public hearing required under the law and forward the proceedings to the Board.

Sri. S.K. Vasudeva Regional Officer, Karnataka State Pollution Control Board, Belgaum welcomed the officers, representatives of industry authorities and public. Further, he informed that, the M/s. Vishwanatha Sugars Ltd. has made the proposal for increase of sugar cane crushing capacity from 5500TCD to 11,000TCD, distillery from 35KLPD to 100KLD, cogen plant from 39MW to 64MW, IML bottling of capacity from 2500Boxes per day to 5000Boxes per day and ENA from 20KLD to 75KLD and also they have proposed to establish new ethanol plant of capacity 30KLD and to install 2nos of DG set of capacity 1MW each. He informed that, the project attracts Environmental Clearance from Ministry of Environment of Forest Government of India as per Sl. No. 5(g) and 5(i) of the schedule and the meeting is being conducted as per the Government Order and explained the need of such a public hearing in respect of this industry premises. Further, he informed M/s. Vishwanatha Sugars Limited to make power point presentation about the proposed expansion of production of existing products and for the installation of 30KLD ethanol plant and also requested the public to offer their opinions and/or suggestions on environmental issues and also requested M/s. Vishwanatha Sugars Limited to reply to the queries, objections and suggestions of the villagers.

On Behalf the industry authority Dr. B. Subbha Rao and his colleague from M/s. Water and Waste Water Research Center, Sangli made a brief power point presentation in Kannada about the salient features of proposed expansion activities and the Environmental management plan. The brief highlights of the presentation are as follows:

1. They have proposed to enhance the production capacities of crushing of sugar cane from 5500TCD to 11,000TCD, distillery from 35KLPD to 100KLD, cogen plant from 39MW to 64MW, IML bottling of capacity from 2500Boxes per day to 5000Boxes per day and ENA from 20KLD to 75KLD and also they have proposed to establish new ethanol plant of capacity 30KLD and to install 2nos of DG set of capacity 1MW each.
2. The cost of the expansion of project is 180.06cores and they have proposed to expand all the above activities in the existing premises of the industry.
3. The industrial effluent generated from the expanded sugar cane crushing plant is proposed to be treated in the existing ETP of capacity 1000KLD.
4. Further, the effluent generated from the co-gen plant i.e., DM plant, boiler blow down is also proposed to be collected in separate tank and proposed to be used on land for irrigation.
5. The effluents from IMPL bottling section is also proposed to be treated in the existing sugar plant ETP.

6. The effluent generated from the distillery plant after expansion is proposed to be treated in an anaerobic digester followed by concentration in multiple effect evaporators and composting. The condensate is collected separately and treated in RO plant.
7. The domestic effluents are proposed to be treated in the existing septic tank and soak pits.
8. It is also proposed to provide required chimney heights and air pollution control equipments to the Boilers and DG sets.

After the presentation was over the Regional Officer, Karnataka State Pollution Control Board, Belgaum requested the Public offer views/comments/objections as related to Environmental aspects. The following public expressed their opinions/suggestions:---

Sl. No.	Name of the public	Village	Suggestions
1	Sri. Siddappa Yellappa Malakari	Sarpur	He informed that Hukkeri taluk is suffering from the electricity and requested the industry authority, to provide power supply generated from the co-gen plant for the local villages and solve power problems in the area.
2	Sri. Halappa Rayappa Rajapuri	Hullolli	He expressed that, farmers are using chemical fertilizers to grow the sugar cane and other crops and facing lot of problems. He has requested to supply the compost generated from the industry to the local farmers.
3	Sri. Vishwanath Gurusidda Palli	Hullolli	He informed that lot of facilities has been provided by the industry and no objection for expansion of the existing production capacity of the industry.
4	Sri. Raju Ammanagi	B. K. Sirahatti	He also expressed that lot of facilities has been provided by the industry and no problem from the industry and no objection for expansion of the existing production capacity of the industry.
5	Sri. Kallappa Siddappa Banni	Belladabagewadi	He also expressed that lot of facilities has been provided by the industry and cane is cutting in time. Further, he informed that, power generated from the industry has to supply to the local farmers.
6	Sri. Kadappa Ishwar Ammanagi	Gudas	He informed that the industry authorities are helping to poor peoples and cane is cutting in time and no objection for expansion of the existing production capacity of the industry.
7	Sri. Sadashiv S. Teli	Jangaliahal	He expressed that, the industry authorities provided schools and has requested the industry to open polytechnic in area and help to education.



8	Sri. Siddappa Chennappa Rakshi Patil		of local children's He informed that the industry is generating waste water and same has to treated and collected in the industry premises. Further, he informed that treated effluent can be supplied for the local farmers for cultivation of crops.
9	Sri. Rangappa Hanumanth Nayak	Kadahatti	He informed that crushing capacity of sugar cane has to be increased immediately and purchase sugar cane from the local farmers instead of sending it to other industry.
10	Sri. Allappa Payappa Halkarni	Kadahatti	He expressed that lot of facilities has been provided by the industry and loan is given to farmers in time and supported the industry expansion.
11	Sri. Ramgouda Kadappa Duradundi	Sirdan	He expressed that lot of facilities has been provided by the industry and sugar cane bill is paid in time. There is no problems from the industry and supported the industry expansion.
12	Sri. Bahubali Bujappa Muroli	Bellada Bagewadi	He informed that industry is using molasses for production and not discharging the same outside and no other problems from industry and he supported the industry.
13	Sri. Shivappa Kenchappa Kargar	Vijaynagar	He also supported the industry expansion.
14	Sri. Pundalik Lingappa Karnate	Kabbur	He also supported the industry expansion.

Sri. Nikhil Katti, Chairman of the industry while replying to the issues raised by the public informed that at present compost generated from the industry is supplied to farmers registered with the industry and same is to be continued. Further, he informed that the treated effluent from the sugar industry is being used for irrigation on own land and excess is proposed to be supplied to the farmers.

Others who participated in the meeting have not raised any question objection and supported the expansion of existing production capacity of the industry. The Additional Deputy Commissioner, Belgaum District, Belgaum has summarized the salient points of the proceedings and meeting was concluded with vote of thanks from Dr. H. R. Puttaraju, AEO, Karnataka State Pollution Control Board, Belgaum.

Environmental Officer
KSPCB, Belgaum

Additional Deputy Commissioner
Belgaum District, Belgaum

Vishwanath Sugar and
Steel Industries Limited
Bellad-Bagewadi-591 305

26 MAR 2011

Inward

No. 04 Dept. M.D.

ANNEXURE III

PUBLIC HEARING DETAILS

Sr. No	Name of the Public & Village	Suggestions / Concern	Response of the Industry
01.	Shri.Siddappa Yellappa Malakari, Sarpur	Power storage in this Region is very acute and it is requested that vishwanath sugars and steel Industries Ltd. shall supply power from the Cogeneration unit to the farmers of the villages in Hukeri Taluk.	The Power Distribution is not controlled by the Industry. However, the concern of the farmers shall be conveyed to the Karnataka state Government.
02.	Shri.Kallappa Siddappa Banni, Belladabagewadi.	Expressed that the Industry is providing lot of facilities to farmers and harvesting cane in time. He suggested further that power shall be supplied to the farmers.	same as above
03.	Shri.Halappa Rayappa Rajapuri, Hullolli.	He suggested that the Industry shall supply compost to local farmers only.	"Compost" is sold to local farmers and if any excess is there, it is sold to nearby farmers.
04.	Shri.Vishwanath Gurusidda patil, Hullolli.	As the Industry is providing lot of facilities, no objection to expansion.	No comments
05.	Shri.Raju Ammanagi, Shri.B.K.Sirahatti,	same as above	-- do --
06.	Shri.Kadappa Ishwar Ammanagi, Gudas	No objection for expansion as the Industry harvests cane in time and helps poor farmers.	-- do --
07.	Shri.Sadashiv S.Teli, Jangatiahal.	The Industry established schools in the area and should also set up a polytechnic in the area and help technical education to local children.	There is a polytechnic within 15km radius and hence the company is instrumental in establishing a ITI college for the benefit of the rural students to become skilled craftsmanship.
08.	Shri.Siddappa Chennappa patil, Rakshi.	The treated waste water should be supplied to farmers for cultivation of crops.	The treated waste water is given to local farmers after obtaining their consent.
09.	Shri.Rangappa Hanumath Nayak, Kadahatti	Suggested to increase the crushing capacity immediately and purchase the sugar cane from local farmers as otherwise the farmers are sending to other factories causing delay in crushing.	The crushing capacity is increased to 8500 TCD now and subsequently it will be increased to 11000 TCD.



Sr.No.	Name of the Public & Village	Suggestions / Concern	Response of the Industry
10.	Shri.Allappa Payappa Halkarni, Kadahatti.	Industry provides loan to farmers and also gives lot of facilities such as fertilizers, seeds etc. on differed payment. Expansion of the Industry is supported.	No comments
11.	Shri.Ramgouda Kadappa Duradundi, Sirdan.	Same as above.	-- do --
12.	Shri.Bahubali Bujappa Munoli, Bellad-Bagewadi.	Molasses from the sugar unit are used for production of spirit supported the expansion of the Industry.	-- do --
13.	Shri.Shivappa Kenchappa Kangar, Vijaynagar.	Supported the Expansion of the Units.	-- do --
14.	Shri.Pudalik Lingappa Kamate, Kabhur.	Same as above	-- do --

