विलास सहकारी साखर कारखाना लि., युनिट-२

तोंडार, ता. उदगीर, जि. लातूर-४१३५६३(महाराष्ट्र)

Vilas Sahakari Sakhar Karkhana Ltd., Unit-2

Tondar, Tq. Udgir, Dist. Latur - 413563 (MH)

GSTIN. : 27AAATV2893E2Z8
Email : vilassugar2@gmail.com

Phone - 8854020028

Ref No. Vilas Unit-2/Dist/ 123A-E **/2023-24** **Dt.** 21 OCT 2023

To,

The Ministry of Environmental, Forests and Climate Change,
Regional Office {WCZ} Ground Floor,
East Wing, New Secretariat Building Civil Lines,
Nagpur – 440001
E-mail: eccompliance-mh@gov.in

Sub. : **Six-monthly EC compliance report for the period of January to June 2023 of New 60 KLPD distillery project**...

Ref : **Environmental clearance (EC) No. EC22B022MH153158 issued on Dt.24 Aug., 2022 for establishment of New 60 KLPD distillery unit**

Dear Sir,

This has reference to above mentioned EC and its general condition II. As per EC condition, we are submitting herewith six-monthly compliance report for the period of January 2023 to June 2023.

Requesting you to accept the same.

Thanking you,

Yours Faithfully,

Managing Director,
For M/s. Vilas Sahakari Sakhar Karkhana Ltd., – Unit 2

Copy to-

1. **The Member Secretary,**
   State Environment Impact Assessment Authority (SEIAA),
   15th Floor, New Administrative Building,
   Mantralaya, Mumbai 400 032.

2. **The Member Secretary**
   Maharashtra Pollution Control Board,
   Kalpataru Point, 3rd and 4th floor,
   Opp. Cine Planet, Sion Circle, Mumbai-400 022.

ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

Period: January - June 2023

Project: New 60 KLPD molasses-based distillery unit

Of

M/S. VILAS SAHKARI SAKHAR KARKHANA LTD (UNIT II)

EC Identification No.: EC22B022MH153158

File No.: SIA/MH/IND2/59739/2021

Project Type: New

EC issued on: 24 August 2022

ENVIRONMENTAL CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)

Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), Maharashtra)

To,

The Managing Director
VILAS SAHKARI SAKHAR KARKHANA LTD UNIT II
At Tondar Taluka Udgir District Latur Maharashtra -413563

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/MH/IND2/59739/2021 dated 23 Feb 2022. The particulars of the environmental clearance granted to the project are as below.

1.	**EC Identification No.**	**EC22B022MH153158**
2.	**File No.**	SIA/MH/IND2/59739/2021
3.	**Project Type**	New
4.	**Category**	B1
5.	**Project/Activity including Schedule No.**	5(g) Distilleries
6.	**Name of Project**	New 60 KLPD molasses based distillery unit
7.	**Name of Company/Organization**	VILAS SAHKARI SAKHAR KARKHANA LTD UNIT II
8.	**Location of Project**	Maharashtra
9.	**TOR Date**	28 Apr 2021

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 24/08/2022

(e-signed)
Manisha Patankar Mhaiskar
Member Secretary
SEIAA - (Maharashtra)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH.Please quote identification number in all future correspondence.

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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/IND2/59739/2021
Environment & Climate Change Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.

To
M/s. Vilas Sahakari Sakhar Karkhana Ltd., Unit-II
village Tondar, Tal. Udgir, Dist. Latur

Subject: Environmental Clearance for Proposed 60 KLPD molasses-based distillery at village Tondar, Tal. Udgir, Dist. Latur by M/s. Vilas Sahakari Sakhar Karkhana Ltd., Unit-II

Reference: Application no. SIA/MH/IND2/59739/2021

This has reference to your communication on the above mentioned subject. The proposal was considered by the SEAC-1 in its 226th meeting held on 25th & 27th July, 2022 under screening category 5(g), B1 as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 248th (Day-1) meeting of State Level Environment Impact Assessment Authority (SEIAA) held on 17th August 2022.

2. Brief Information of the project submitted by you is as below:-

Sr. no	Particulars Required	Details
1.	Name of the project &Address along with all corner latitude and longitude	M/s. Vilas Sahakari Sakhar Karkhana Ltd., Unit-2 (Distillery Unit) Plot No. 72, Village Tondar, Taluka Udgir, District Latur, Maharashtra, 413563. latitudes & longitudes of corners of the site are as follows: **1.** 18°26'23.20"N & 77° 4'5.58"E; **2.** 18°26'22.20"N &77° 4'11.89"E; **3.** 18°26'16.69"N &77° 4'10.59"E; **4.** 18°26'17.92"N &77° 4'3.40"E
2.	Type of Organization (Private/Government/Semi Government etc.)	Co-oprative
3.	Correspondence Address and contact details of Project Proponent	Plot No. 72, Village Tondar, Taluka Udgir, District Latur, Maharashtra, 413563. E-mail: vikassugar2.mfg@gmail.com
4.	Type of project (ToR/EC/Amendment in ToR/Amendment in EC/Revalidation/Expansion/Process change etc.)	Environmental clearance

5.	Category of project as per EIA Notification 2006 amended from time to time(Pl. mention category A,B,B1,B2 etc. whichever is applicable)	B1
6.	If earlier ToR is obtained pl. mention details (ToR letter No. & Date, SEAC/EAC Meeting No.)	The proposal was considered for grant of ToR in 219th meeting of SEIAA, held on 23rd April, 2021 ToR Proposal no.: - SIA/MH/IND2/59739/2021 ToR granted on.:- 28th April 2021
7.	If earlier EC is obtained pl. mention EC Number & Date	No (Proposal for new distillery unit)
8.	Whether the proposal is a violation case (yes/no)	No
9.	Applicability of CRZ clearance(yes /no)	No
10.	Whether General/Specific Conditions are applicable to the project (Yes/No) If yes pl. give details	No
11.	Whether Scrutiny fees paid as per SEIAA guidelines (Yes/No); If yes pl. give payment details	Yes, Cheque No.: 108069 dated 03/03/2022 (Rs. 4,00,000/-)
12.	Name of accredited Environmental Consultant & address along with Accreditation No. &Validity	Vasantdada Sugar Institute, Manjari (Bk.), Tal: Haveli, Dist. Pune 412307. Accreditation Certificate No.: NABET/EIA/2023/RA 0208 Validity: December 19, 2023
13.	Name of layout plan approving Authority	ADTP
14.	Estimated cost of Project (in Rs. Lakhs)	Rs. 9,328.40 Lakhs
15.	Area of project (in Sq. m.)	Total plot area allocated for proposed distillery unit: 33,735 sq. m. (3.37 ha.) Buit-up area: 12, 045.31 sq. m. (1.20 ha.) Greenbelt: 11,133 sq. m. (1.12 ha.)
16.	Whether 33% greenbelt is provided (Yes/No)	Yes
17.	Area of Green Belt & No. of trees in the proposed project in Sq. m.(Pl. provide 2000 trees per hectare of greenbelt area)	Greenbelt area: Greenbelt: 11,133 sq. m. (1.12 ha.) Proposed plantation: 1,891 trees
18.	Width of internal roads and turning radius	Minimum 6 m width and 9 m turning radius

19.	Details of proposed construction	Total Built-up area of proposed distillery unit = 1.20 ha.

#	Description	Size	Area (in sq.m.)
1	Coal Shed	20 × 15	300
2	Time Office	10 × 5	50
3	Turbine, DG Set	44.8 × 22	985.6
4	Boiler	61.3 × 20.2	1238.26
5	Security Cabin	3 × 3	9
6	Admin Office and Excise Office	15 × 10	150
7	Fire Fighting Pump House	9 × 4	36
8	CPU Unit	55 × 33	1815
9	Under Ground Water Tank With WTP	35 × 16	560
10	Cooling Tower For Evaporator	10.3 × 8	82.4
11	Cooling Tower For Distillation and Dehydration	25 × 6	150
12	Cooling Tower For Fermentation	11.5 × 6.3	72.45
13	MCC + PLC +	24 × 8	192

	Laboratory + Chiller Room		
14	Bulk Storage Section For Ethanol	79 × 50	3950
15	Bulk Storage Section For RS/IS	27 × 21	567
16	Receiver Section For RS/Ethanol/IS	20.2 × 18	363.6
17	Independent Evaporator and ATFD with Tanks	20.8 × 12	249.6
18	Distillation and Dehydration Section Provision	20.8 × 18	374.4
19	Fermentation Section	37.5 × 24	900
	Total		**12,045.31**

20. **List of Raw materials & Storage Details (Pl. add –on in the list if necessary)**

Sr. No	Name of Raw material	Consumption MT/M	Maximum Storage Details	Hazard category	Proposed precautions to prevent accident	Remarks
1.	Molasses B-Heavy **OR** C-Heavy	206 TPD 222 TPD	Existing: 2 Storage tank of 4,000 MT each	Fire (03)	Stored in Mild steel tanks constructed as per guidelines of PESO	-
	Sugar Cane	858 TPD	-	-	-	

	for Juice **OR** Sugar syrup						
2.	Nutrients N, P	100 Kg/D	-	-	-	As per requirement procured from market	
3.	Turkey Red Oil	300 Kg/D	-	-	-		

21. **Production Details**

Sr. No.	Name of product	Proposed capacity MT/M	Name of Product approving authority(like FDA of Pharmaceuticals)
1.	**RS/ENA/anhydrous alcohol (Ethanol)**	**60 KLPD**	**NA**

22. **Water Consumption & Effluent generation (All units in CMD)**

I) Source & Qty. of water requirement (in CMD):
Quantity: 554 m^3/day (after considering recycling), Source: Devarjan Dam

II) Water supply permission obtained (Yes/No) & approving Authority:
Permission available from Latur Irrigation Department.

Particulars	Consumption(CMD)			Loss (CMD)			Effluent Generation (CMD)		
	Existing	Proposed	total	Existing	Proposed	Total	Existing	Proposed	Total
Industrial Process	-	840	840	00	312	312	00	48	48
Industrial Cooling	-	354	354	00	152	152	00	-	-
Boiler	-	475	475	00	22	22	00	-	-
Domestic purpose	-	20	20	00	2	2	00	18	18
Total	-	**1689**	**1689**	**00**	**488**	**488**	**00**	**66**	**66**

23. Quantity of sewage generation (in CMD) — 20 m^3/d

24.	Details of Sewage Treatment and Disposal of treated sewage:	Will be treated in STP
25.	**Details of Effluent Generation (unit CMD)**	
26.	Whether Zero liquid Discharge Effluent Treatment is proposed (Yes/No)	Yes
27.	Brief Description of Effluent Treatment scheme	1) For spent wash: Multi-effect evaporation (MEE) followed by incineration in boiler. 2) For spent lees, condensate and other effluent: CPU containing two stage biological treatment followed by tertiary treatment
28.	Qty. of treated effluent proposed to be sent to CETP (pl. mention Name of CETP and its membershipDetails)	NA

Particulars	**Total**
A: Qty. of effluent generation (CMD)	700 CMD
B: Qty. of high TDS/COD effluent (CMD)	120 CMD
C: Qty. of low TDS/COD effluent (CMD)	580 CMD

29. Please mention parameters of treated effluent to be achieved as per EP Rule,1986 and or stipulated by the SPCB

Parameter	**Inlet (condensate water) Concentration (mg/l)**	**Outlet Concentration (mg/l)**
PH	2.5-4.0	6.5-8.5
TSS	1,000-1,500	<1000
TDS	1,000-3,000	<1000
COD	8,000 – 10,000	<250
BOD	3,500	<100
Heavymetals	-	-
Benzene	-	-
Otherifany	-	-

30. Brief note on proposed rain water harvesting scheme along with budget allocation:

Details of rainwater harvesting and storage

Description Of Catchment Area	**Area**	**Avg Rain-Fall Per Year**	**Run Off coefficient**	**Water Available Per Annum**
	Sq.m.	M	%	Cu.m.
Roof top area	3561	0.801	0.7	**1996.65**

Rain water harvesting is planned mainly from roof top areas of proposed unit and admin building. The rooftop area available for rain water harvesting is

	approx. 3,561 m^2. All water will be collected and channelized to sump well or spray pond. Stored water will be used for various activities, such as cooling tower makeup, molasses dilution etc. **Budget allocation for Rain water harvesting: Rs. 20 lakhs**

31. **Solid Waste Management**

Sr. No	Type of waste	Qty. (Tons/Annum)	Source Of generation	Disposal methods	Pl mention plan to Reduce solid waste generation if any.
1.	Yeast Sludge dry	50	Fermentation process	Used as soil conditioner	-
2.	Ash (from Spentwash + Coal/Bagasse)	Max 14,586	Incineration of effluent in boiler	Sold to brick manufacturers	-
3.	CPU sludge (dry)	70	Wastewater treatment	Used as soil conditioner	-

32. **Hazardous Waste Generation & Disposal (As per HW Rule 2016)**

Sr. No	Category	Particulars	Source of generation (Please include product)	Total Qty. and generation	Method & disposal as per HW rule (2016)
1	5.1	Scrap oil	DG sets, Automobiles etc.	1-1.5 KL/Annum	disposed as per the MPCB guidelines under consent /Hazardous waste authorization

33. **Fuel Consumption**

Sr. no	Type Of fuel	Consumption Qty. (TPD)	Used for Boiler/DG setEtc.	Ash %	SO2%	Air pollution Control/Equipment Provide (Yes/No)
1.	Conc. Spent wash	148.8	Incineration Boiler	18	<0.5	Yes: Electrostatic Precipitator with Stack of 55 m height with 3 m inner diameter
2.	Coal **OR**	50		35	0.3-5	
	Bagasse	87		2	0.05	

34. **Brief Note on Air Pollution Control equipment's**
Stack of 55 m with ESP (Electrostatic precipitator) for proposed 22 TPH incineration boiler

35. **Stack Details (Also include process vent details)**

Section/Unit	Source pollutions	Stack No.	Stack height	Height form ground	Internal Diameter (inch)	Temperature of exhaust gas
Incineration boiler	Combustion of fuel	1	55 m	-	3.0 m	150°C

36. **Energy**
a) Source of power supply: Captive- 2.0 MW Steam turbine generator with proposed incineration boiler
b) Maximum Demand (kVA): 1490 kVA
c) Whether DG sets will be provided (Yes/No): Yes
d) Please Mention if high tension line is passing through the plot: NA
e) If yes, pl. gives details of safety measures adopted: NA

Sr. No	No. of DG sets	Capacity
1.	1 no. (existing with sugar unit)	320 kVA

37. **Details of use of renewable energy with budget allocation**
i) Total Energy Demand: 1.49 MW
ii) Proposed renewable energy source capacity: From sugar unit (bagasse based power generated in the sugar unit will be used partially in distillery
iii) Proposed Budget (in Rs. Lakhs): Rs. 05.00 (for cables, etc.)
iv) Timeline for implementation: Before operation phase

38. **Details of public hearing (if applicable)**
i) Place of public hearing: Project site, Village: Tondar, Tal. Udgir, Dist. Latur, Maharashtra.
ii) Date of public hearing: December 23, 2021
Please fill following details

Sr. No	Issue raised during public hearing	Applicant plan for its compliance/ implementation	Budget allocation for implementation (Rs. In lakhs)	Specific time line of compliance
1.	**Shri. R. U. Patil** The Sub-Regional Officer, MPCB, Latur & convenor:- 60 KLPD production will be taken in the said project and asked whether the required molasses is available with own factory or it will be taken from outside also other than the own factory and weather recording in this regard is in presentation and requested to show the slide.	According to the planning, the proposed distillery will use sugar cane juice/syrup during cane crushing season. Average yield of 70L per ton of cane observed for juice to ethanol. Thus, juice extracted from ~858 TPD of cane will get diverted to the distillery purpose. Remaining 1,642 tons of cane will be used for sugar manufacturing. In such situation, B-heavy molasses estimated to get produced during the seasonal operation will be 15,744 Tons. Considering the requirement of approx. 206 TPD for B-heavy molasses, it is feasible to operate the distillery for 77 off-seasonal days on the own B-heavy molasses. It is estimated that, the proposed distillery will require 19,158 tons of B-heavy molasses, from the	-	Continuous

			market to operate the unit for remaining 93 days (total 330 days = 160 days using juice + 77 own B-heavy molasses + 93 days – B-heavy molasses from Market). If the unit plans to use C-molasses it will require 27,306 tons of C-molasses from the market for off-seasonal operations.		
	2.	**Dr. P. M. Joshi**, The regional officer, MPCB, Aurangabad and public hearing panel member :- asked about the latitude and longitude of the location of said project as previously incidence was happed when the name of the factory was M/s. Priyadarshani Sahakari Sakhar Karkhana and molasses was flowed into the Banshelki dam through Nala.	The present management took the charge of the unit in 2014-15. The same Management is operating sugar and distillery units in Latur district for past several years. The Management is well aware of its environmental responsibilities. Thus, it will take all necessary measures at all levels, to prevent such incidences. The Management assures the Public hearing committee and respective authorities about the same.	30.00	Continuous
	3.	**Dr. Joshi** stated that previously molasses of the sugar factory was flowed.	Earlier, this unit was in operation as M/s. Priyadarshani Sahakari Sakhar Karkhana limited. The incidence mentioned here took place long before taking charge of the said unit by our Management.	-	Continuous
	4.	**Dr. Joshi** further stated that no question of emission of SO2 arise because the fuel is bagasse and the conc. Of SO2 is very less and secondly, the	As communicated during public hearing, the Management has plan to send the ash to brick manufacturing unit only in case of use of coal for incineration purpose.	Rs. 190 lakhs (for fuel and ash handling system)	

	bagasse ash is not given to the kilns and it is given as manure and normally no ash from sugar factory is given to brick kilns, he suggested to see the consent conditions.			
5.	**Shri. Patil** suggested to use coal only when condition is stipulated in consent for the same, otherwise not to use.	Presently, the Management has planned to use coal for incineration process due to technical advantages. It will take approval for the said fuel, in the consent.	-	Continuous
6.	**Q 3. Shri. Pandit Vishwanath Dhage**, r/o Her, Tal. Udgir, Dist. Latur:- stated that farmers will get benefited due to said project employment opportunity will be available to the youths in the area, hence he congratulates the management.	The Management is thankful to Mr. Pandit Vishwanath Dhage for his support to the project. As a policy, the management always prefer local candidates for employment. The same policy will be continued for the proposed distillery project.	-	-
7.	**Q 4. Shri. Sandeep Rajendra Patil**, r/o. Tondar, Tal. Udgir, Dist. Latur :- stated that said project of 60 KLPD production is good for farmers, for youths, for increase in rate of cane, for financial progress, for employment opportunity for the unemployed and as far as pollution is concerned the	The Management is thankful to Mr. Sandeep Rajendra Patil for his support to the project.	-	-

		factory is being operated in very good manner from last five years, that is since it is taken over for operation and no any incidence of pollution is happened at the said factory during the period of 5 years. He stated that he supports the said project and he has given about 560 Ton of sugar cane since the establishment of the factory			

39. EMP (Please mention specific items proposed in EMP along with specific timeline for its implementation)

I) Construction Phase

Sr. No	Attribute	Specific Measure	Budget in (Rs. Lakh)	Remark
1.	Air	Use of electrically operated machinery, Regular maintenance of transportation vehicles, sprinkling of water on roads for dust suppression, sprinkling of water while loading/unloading the dust	12	Basic facilities like Drinking water, Toilets, first aid facility and Safety gears will be provided to construction workers
2.	Water	Minimize wastage of water, Use fresh water with utmost care	08	
3.	Noise	Use of low noise making and preferably electrically operated machineries for construction, regular maintenance of transportation vehicles and other machineries	02	
4.	Soil	Excavated soil will be stacked separately and reused for greenbelt development, Stones and excess soil will be used for foundation or internal roads or levelling purpose within premises.	04	
5.	Solid waste	Segregating of solid waste	04	

6.	Hazardous waste	-	-	
7.	Fuel & energy	-	18	
8.	Safety & Health	Proper safety precautions to avoid accidents and related damages.	3	

II) Operation Phase

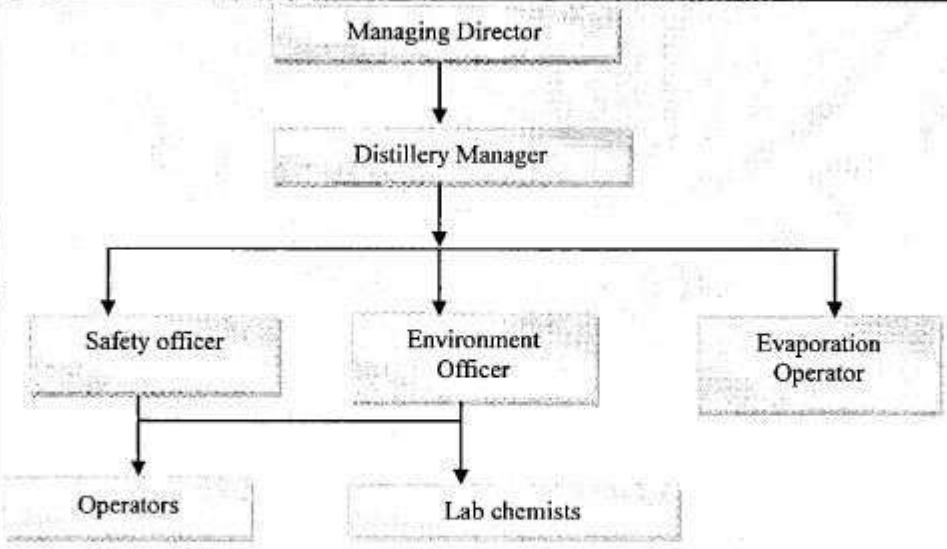
Sr. No	Attribute	Specific Measure	Budget in (Rs. Lakh)	Timeline for implementation	Responsibility
1.	**Air**	ESP to control ash emission through stack with height 55 m. Mechanized system for coal and ash handling. Development of greenbelt.	575	Up-to commissioning	Operation/ maintenance: Distillery manager, chief engineer, civil engineer and environment officer
2.	**Water**	'Zero liquid discharge' will be achieved by implementing - • Stand - alone evaporation (using MEE) as a primary treatment to reduce the spentwash volume • Incineration of concentrated spentwash by burning with coal or bagasse in furnace Spent lees, condensate of MEE and other effluents will be treated in condensate polishing unit (CPU) Rainwater harvesting	2280	Upto commissioning	operation/ maintenance: Distillery manager, chief engineer, and environment officer

	3.	**Noise**	Regular maintenance of machines and factory vehicles. provisions of separate parking for goods and other vehicles, Internal roads will be either asphalted or RCC, levelled, illuminated and will be maintained. Safety sign boards will be placed at strategic locations within premises, development of greenbelt, Provision of	32	Upto commissioning	operation/ maintenance: Distillery manager, civil engineer and environment officer	
	4.	**Soil and Solid waste**	Yeast & CPU sludge will be mixed in to soil. Boiler ash will be given to nearby brick manufacturing unit	80	Continuous after commissioning	Environment officer	
	5.	**Hazardous waste**	The only hazardous waste likely to be generated will be scrap oil from DG set, automobiles, gears etc. This will be stored in leak proof drums in storage yard.	0.50	Continuous	Environment officer	
	6.	**Fuel & energy**	Electricity in case of diesel generator operation	825	Continuous	Distillery Manager and Chief Engineer	
	7.	**Safety & Health**	Proper safety precautions to avoid accidents and related damages.	45	Continuous	Safety officer	

	8.	**Rain water harvesting**	Rain water harvesting is planned mainly from roof top areas of proposed unit and admin building. The rooftop area available for rain water harvesting is approx. 3,561 m2. All water will be collected and channelized to sump well or spray pond. Stored water will be used for various activities, such as cooling tower makeup, molasses dilution etc.	20	Continuous	Distillery Manager, Civil engineer and environment officer		
	9.	**Implementation of recommendation of LCA**	-	-	Continuous	Distillery Manager		-
	10.	**Implementation recommendation HAZOP/Risk Assessment**		-	Continuous	Distillery Manager, Safety officer		-
	11.	**Any other please specify**		-	-	-		-
40.	**Other Relevant Information: (Pl. provide brief note on proposed project)** M/s. Vilas Sahakari Sakhar Karkhana Ltd., Unit-II (VSSKL2) is located at village Tondar, Tal. Udgir, Dist. Latur Pin-413563 on Ahmedpur-Udgir state highway (SH217) around 7 Km from Udgir railway station. This is a cooperative sugar factory. The said unit was formerly started in 2002 under the name Priyadarshini Co-operative Sugar Factory. The factory ran in disarray till 2011, In 2014-15 the sick factory was taken over by the present management and re-operated. Government of India is encouraging ethanol production to boost its ethanol blended petrol project. Therefore, the Management planned to install the ethanol unit. The proposed plant will be based on advanced technology of cascade continuous fermentation with provision to switch over to Fed Batch fermentation when molasses quality is poor and multi-pressure distillation and Molecular Dehydration Technology (MSDH). For treatment and disposal of effluent, the management has decided to install standalone multiple effect spentwash evaporation plant (SMEE). Concentrated spentwash will be incinerated to achieve "ZLD" as per CPCB norms. Electrostatic precipitator will be used as Air pollution control equipment along with stack of 55 m. Proper measure will be taken for Noise, solid waste and occupational health and safety management. The project will generate number of direct and indirect employment also the revenue for local authority as well as to state and central government.						

4 1.	**Details of skill development program within Organization** Since its establishment, the factory has shown concern about the social development of the region. As a part of its social commitment, it has initiated and implemented many activities in the region. Some of them are highlighted below • Sugarcane development: VSSKL, has undertaken various sugarcane development activities in its area of operation. Notable sugar development activities, guidance to farmers to understand financial and management issues related to sugarcane farming. • factory also conducts routine sugarcane cultivation creates awareness amongst farmers and provides information on latest techniques and agricultural practices to the farmers.
4 2.	**Details of environmental Monitoring Cell (Pl. provide organogram with educated Qualification and experience)** In order to maintain the environmental quality within the standards, regular monitoring of air, water/wastewater, soil, noise etc. is essential. It is recommended to constitute a separate Environment Management Cell by including following personnel. It should be established to monitor and control the environmental quality in an around the industrial complex. Members of the cell should be well qualified and experienced in concerned field.

Particulars	Number	Education and experience
Managing Director	One	Graduation and 20+ years
Distillery Manager	One	B.Sc + AVSI with 15+ years
Environment officer/Chemist	One	MSc EnvSci/engineering with 5+ years
Safety Officer	One	B.Sc + Dip in safety with 5 + year experience
Evaporation plant Operator	One	ITI
Lab Chemist	Two	B.Sc.
Operators	Four	ITI/10 + 2



Schematic of Environment Management Cell (EMC)

4 3.	Details of court cases if pending in any Hon'ble court	NO

3. The proposal has been considered by SEIAA in its 248th (Day-1) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions

Specific Conditions:

SEAC Conditions

1. PP to submit point wise compliance of all issues raised during public hearing along with necessary budget provision, responsibility and time lines for its completion.
2. PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.
3. It was observed that, the baseline input data used for air modelling as Total Particulate Matter whereas the parameter for ambient air is PM10 and PM 2.5. PP to submit clarification on the same and if required a random sampling be conducted to correlate input data and ambient air data using air modelling technique.
4. The carbon dioxide emissions from fermentation process will be separated. PP will use a CO2 scrubber for removal of the gas from alcohol stream. Separated CO2 will be either bottled or converted into dry ice or other suitable chemicals.
5. PP to carry out physiochemical analysis report of the compost proposed to be used as manure and obtain approval from the competent Authority so as to ensure its safe use on agricultural land
6. PP to submit details of final disposal of hazardous generated on site.
7. PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so as to reduce operation cost and use of natural resources.
8. PP to mark the location of heavy vehicle parking on the layout map and submit a copy with a view to avoid parking of its own vehicles in public spaces.
9. PP to ensure enclosed storage with impervious flooring of all raw materials and chemicals, no open storage be practiced so as to avoid odour nuisance and its impact on the soil in case of spillage.
10. PP to submit copies of MoU executed with the brick manufacturer for disposal of boiler ash along with their quantities.
11. PP to ensure to utilize CER fund before the commissioning of the manufacturing activity in consultation with the District Collector.
12. PP to complete green belt development with the provision of drip irrigation before the commissioning of the manufacturing activity.
13. PP to provide separate Sewage Treatment Plant for treatment of domestic sewage and ensure to achieve standard parameters issued by the CPCB/MPCB.
14. PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.

SEIAA Conditions:

1. PP submitted ADTP plan dated 02.02.2022. As per the said plan total plot area is 52,800.00 m2 and green belt area provided is 17,424.32 m2 i.e. 33 % of total plot area.
2. PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peeple, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts / arborist.
3. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.
4. PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.
5. PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.
6. PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.
7. PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).
8. PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendation of the Audit.
9. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.
10. PP to ensure use of briquette /bio coal/ pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste , not less than 50 % of the total fuel requirement to the boiler.
11. PP to provide roof top Rain Water Harvesting facility.
12. PP to ensure that proposed project is ZLD.

General Conditions:

I. The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded Environmental Clearance and copies of Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at http://parivesh.nic.in

II. The project Proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1st June & 1sr December of each calendar year.

III. Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be

included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.

IV. A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.

V. In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.

VI. PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.

VII. PP to provide separate drains for storm water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.

VIII. Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.

IX. The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.

X. Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.

XI. PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.

XII. The Environmental Statement for each financial year ending on 31st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Manisha Patankar Mhaiskar
(Member Secretary, SEIAA) 23/8/2022

Copy to:

1. Chairman, SEIAA (Maharashtra), Mumbai.
2. Secretary, MoEF & CC, IA- Division MOEF & CC
3. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
4. Regional Office MoEF & CC, Nagpur
5. District Collector, Latur
6. Regional Officer, Maharashtra Pollution Control Board, Aurangabad

Signature Not Verified
Digitally signed by Manisha Patankar Mhaiskar
Member Secretary
Date: 8/24/2022 6:00:03 AM

CONTENT

Point-wise Compliance of EC conditions

#	EC Conditions	Compliance, Reference Documents/ Remarks
A. Specific Conditions by SEAC		
1.	PP to submit point wise compliance of all issues raised during public hearing along with necessary budget provision, responsibility and time lines for its completion	Point wise compliance of all issues raised during public hearing along with necessary budget provision, responsibility and time lines for its completion was submitted to SEAC the same is attached here as annexure-IA
2.	PP to complete rain water harvesting facility before the commissioning of the manufacturing activity.	Rooftop rainwater harvesting system will be install in proposed distillery unit
3.	It was observed that, the baseline input data used for air modelling as Total Particulate Matter whereas the parameter for ambient air is PM 10 and PM 2.5. PP to submit clarification on the same and if required a random sampling be conducted to correlate input data and ambient air data using	Revised dispersion modeling study for PM10 and PM2.5 submitted to SEAC attached here as annexure-IB
4.	The carbon dioxide emissions from fermentation process will be separated. PP will use a CO2 scrubber for removal of the gas from alcohol stream. Separated CO_2 will be either bottled or converted into dry ice or other suitable chemicals	The carbon dioxide emissions from fermentation process will be separated and Separated CO_2 will be either bottled or converted into dry ice or other suitable chemicals
5.	PP to carry out physiochemical analysis report of the compost proposed to be used as manure and obtain	Composting is not adapted as ZLD to dispose of distillery effluent

	approval from the competent Authority so as to ensure its safe use on agricultural land	
6.	PP to submit details of final disposal of hazardous generated on site	No any hazardous waste generates in distillery process, The used oil of DG set will be given to the authorized recycler. Also given the compliance in annexure-I
7.	PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so as to reduce operation cost and use of natural resources	Effluent Treatment system will be ZLD based Detail compliance is attached here as annexure-I
8.	PP to mark the location of heavy vehicle parking on the layout map and submit a copy with a view to avoid parking of its own vehicles in public spaces.	Parking location for heavy vehicles is provided in location. Layout attached as annexure-IC
9.	PP to ensure enclosed storage with impervious flooring of all raw materials and chemicals, no open storage be practiced so as to avoid odour nuisance and its impact on the soil in case of spillage.	Noted, Detail compliance is attached here as annexure-I
10.	PP to submit copies of MoU executed with the brick manufacturer for disposal of boiler ash along with their quantities	MoU with the brick manufacturer for disposal of boiler ash will be executed after operation of unit, ash demand letters attached here as annexure-ID

11.	PP to ensure to utilize CER fund before the commissioning of the manufacturing activity in consultation with the District Collector.	Noted
12.	PP to complete green belt development with the provision of drip irrigation before the commissioning of the manufacturing activity.	Green belt development with the provision of drip irrigation will be provided before the commissioning of the manufacturing activity
13.	PP to provide separate Sewage Treatment Plant for treatment of domestic sewage and ensure to achieve standard parameters issued by the CPCB/MPCB	STP will be installed to treat domestic effluent and ensure to achieve standard parameters issued by the CPCB/MPCB
14.	PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site	Sliding gate will be provided at entry and exit, assurance of the same is given to the Honorable SEAC
B. Specific Conditions by SEIAA		
1.	PP submitted ADTP plan dated 02.02.2022. As per the said plan total plot area is 52,800.00 m2 and green belt area provided is 17,424.32 m2 i.e. 33 % of total plot area	ADTP plan enclosed as annexure-II
2.	PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peeple, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-1 1, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental	The plantation of native and indigenous trees has been initiated, with a focus on implementing the Miyawaki plantation system by maintaining narrow inter-distances. The saplings for these trees are procured from the Forest Department of the Government of Maharashtra.

	Clearance under expert guidance of Miyawaki experts *I* arborist.	
3.	PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.	Noted The primary sources of solid waste generation in the distillery include ash from the boiler, sludge from the CPU, and sludge from the fermentation unit. The sludge from the fermenter is also organic and degradable, as it contains organic nutrients and microelements. Therefore, it will be utilized as a soil-enriching material.
4.	PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time	Noted, will be comply
5.	PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.	In order to address the issue of pollution, comprehensive measures will be implemented to effectively control all sources of fugitive air pollution on site, ensuring compliance with the prescribed standards.

6.	PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil	Noted, Storage will be provided in accordance with the applicable norms and rules.
7.	PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).	Noted and Complied Photograph of ethanol storage attached in annexure-VI
8.	PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendation of the Audit.	The acquisition of approval and license from the Directorate of Industrial Health & Safety (DIHS) for the proposed project shall be pursued, and all conditions stipulated therein shall be diligently implemented
9.	PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.	The installation of a solar-based power generation unit is being provided. This energy will be utilized to illuminate both the office building and the street lights within the premises.
10.	PP to ensure use of briquette /bio coal/ pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste, not less than 50 % of the total fuel requirement to the boiler	Noted

11.	PP to provide roof top Rain Water Harvesting facility.	A rainwater harvesting system has been implemented at the factory site. The purpose of this system is to collect rainwater, which will then be utilized for both process and non-process related activities within the unit.
12.	PP to ensure that proposed project is ZLD	The distillery unit will adhere to ZLD (Zero Liquid Discharge) standards in accordance with the guidelines set by CPCB (Central Pollution Control Board).
C. General Conditions		
I.	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded Environmental Clearance and copies of Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at http://parivesh.nic.in	Noted and complied Copy of the advertisement is enclosed herewith as annexure-III
II.	The project Proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same	Environmental Clearance letter uploaded on factory website (the link given below), EC compliance report including monitoring data of air, water, soil, noise etc. will be

	periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1st June & 1st December of each calendar year.	uploaded on website and the same will be updated periodically. Factory website: http://vilassugar.com Environmental motoring reports enclosed as annexure-IV
III.	Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.	The utilization of the budget allocated for EMP activities is solely dedicated to the intended purpose. No diversion of funds has occurred towards any other activities
IV.	A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards	The factory has established an Environment Management cell (EMC) to oversee and effectively manage all environmental measures implemented Structure of EMC attached as annexure-VII
V.	In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.	Noted. The management will comply with the aforementioned condition

V.	In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.	Noted. The management will comply with the aforementioned condition
VI.	PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.	Noted. The management will comply with the aforementioned condition
VII.	PP to provide separate drains for storm water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.	Noted
VIII.	Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	The factory has organized regular monitoring of groundwater in order to conduct an environmental impact assessment and submit the findings to the Maharashtra Pollution Control Board Groundwater analysis report enclosed here as annexure-IV
IX.	The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.	Factory has carried out the noise level monitoring in factory premises as per environmental (Protection) Act and rules Noise analysis report is enclosed herewith as annexure-IV

X.	Adequate safety measures shall be ensured to limit the risk zone within the	The storage of ethanol shall adhere to the guidelines by PESO.
XI	PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time	Noted, The factory will abide by the said condition
XI I.	The Environmental Statement for each financial year ending on 31st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.	Noted, The factory will comply with the aforementioned condition.
4.	The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the project proponent in the case filed against him, if any or action initiated under EP Act.	Noted.

5.	In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.	Noted. The management will comply with the aforementioned condition.
6.	The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.	Noted.
7.	Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification.2006, amended time to time.	Noted
8.	In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	Noted

9.	The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments	Noted. MPCB has issue Consent to establish under Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 CTE copy enclosed as annexure-V Photographs of stack and ESP installed as APCE, Spentwash storage as per CREP guidelines, CPU, included in annexure-VI
10.	Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

Annexure-I

Vilas Sahakari Sakhar Karkhana Ltd; Unit-2

Tondar,Tq.Udgir, Dist. Latur, (MS)
413563 Ph.No.(02385)231001,
E-mail: vilassugar2@gmail.com

Ref. No. vilas unit-2/ Dist/ 976 /2022-23.

Date: 9 AUG 2022

To
The Member Secretary
Maharashtra State Expert Appraisal Committee – 1
New Administrative Building, 15th Floor,
Opposite Mantralaya, Mumbai 400 023.

Subject: Compliance of queries raised by Honorable SEAC in its 226th meeting held on 26th July 2022 (agenda sr. no. 10) for environmental clearance of M/s. Vilas Sahakari Sakhar Karkhana Limited- Unit 2, village Tondar, Taluka Udgir, Latur

Ref.: Project proposal number: SIA/MH/IND2/59739/2021

Dear Sir/Madam,

With reference to the abovementioned subject, we are submitting herewith Point-wise compliance for the issues raised by Honorable SEAC in its 226th meeting held on 26 July 2022.

Point 1. PP to submit point wise compliance of all issues raised during public hearing along with necessary budget provision, responsibility and time lines for its completion.

Compliance: Point wise compliance of all issues raised during public hearing along with necessary budget provision, responsibility and time lines for its completion attached as **Annexure- I**

Point 2.PP to complete rainwater-harvesting facility before the commissioning of the manufacturing activity.

Compliance: We assure for abiding by this term that, rainwater-harvesting facility will be complete before the commissioning of the manufacturing activity.

Point 3. It was observed that, the baseline input data used for air modelling as Total Particulate Matter whereas the parameter for ambient air is PM10 and PM 2.5. PP to submit clarification on the same and if required a random sampling be conducted to correlate input data and ambient air data using air modelling technique.

Compliance: As per the suggestion of Honorable SEAC, we have calculated GLC for PM 10 and PM2.5.
Isopleth of the same and related details are enclosed as **Annexure II.**

Point 4. The carbon dioxide emissions from fermentation process will be separated. PP will use a CO2 scrubber for removal of the gas from alcohol stream. Separated CO2 will be either bottled or converted into dry ice or other suitable chemicals.

Compliance: We assure Honorable SEAC for abiding by this condition.

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2, Tondar, Tq. Udgir, Dist. Latur

Tondar,Tq.Udgir, Dist. Latur, (MS)
413563 Ph.No.(02385)231001,
E-mail: vilassugar2@gmail.com

Point 5.PP to carry out physiochemical analysis report of the compost proposed to be used as manure and obtain approval from the competent Authority so as to ensure its safe use on agricultural land.

Compliance: Composting is not proposed in this project.

Point 6.PP to submit details of final disposal of hazardous waste generated on site.

Compliance: The only hazardous waste anticipated as scrap oil from DG set, automobiles, gears etc. Since the DG set will run only in case of failure of regular power supply. The quantity of used or scrap oil will be low and assumed to be around 1,000-1,500 LPA (i.e. 1 to 1.5 Kl.). This will be stored in leak proof drums in storage yard. This will be disposed of periodically by burning in boiler furnace along with fuel or disposed-off safely by giving it to authorized hazardous waste oil dealer.

Point 7.PP to provide Zero Liquid Discharge Effluent Treatment Plant. PP to explore possibility to assess techno-economic feasibility of using technology for MEE such as low temperature/mechanical vapour compressor etc. so as to reduce operation cost and use of natural resources.

Compliance: We hereby assure Honorable SEAC for implementation of Zero Liquid Discharge (ZLD) for the said project. The factory management has already proposed several measures to reduce operational cost, save energy and natural resources. The measures include –

- High alcohol percentage in fermented wash can result in substantial reduction in steam consumption. Thus, saving energy (fuel) and water.
- Steam will be used twice. Initially it will be sent to STG for power generation and exhaust steam of STG will be used for distillery operation.
- It is planned to recycle low strength (sober) wastewater generated i.e. process condensate, spent lees and other streams, after treating through condensate polishing unit. It will help to reduce the consumption of fresh water for process and non-process applications. Also Rain water harvesting is planned

Point 8.PP to mark the location of heavy vehicle parking on the layout map and submit a copy with a view to avoid parking of its own vehicles in public spaces.

Compliance: Revised layout showing parking of heavy vehicles - attached as **Annexure III**

Point 9.PP to ensure enclosed storage with impervious flooring of all raw materials and chemicals, no open storage be practiced so as to avoid odour nuisance and its impact on the soil in case of spillage.

Compliance: Now a day, molasses (raw material) is an important by-product of the sugar unit. It is used in distilleries as a feed stock. Hence, presently it is properly stored in two MS tanks in the sugar unit. It is sold to potential buyers as per the demand and market. In case of proposed distillery unit, the Management has planned to install additional molasses storage MS tank of 10,000 ton capacity. It has made provision of Rs. 30.00 lakhs for the safe storage of molasses. The tank will be constructed as per the required standards and guidelines i.e. complying BIS.

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2,Tondar,Tq.Udgir,Dist.Latur

Tondar,Tq.Udgir, Dist. Latur, (MS)
413563 Ph.No.(02385)231001,
E-mail: vilassugar2@gmail.com

Considering the same, the Management has taken adequate measure to avoid odour nuisance and its impact on the soil in case of spillage.

Point 10.PP to submit copies of MoU executed with the brick manufacturer for disposal of boiler ash along with their quantities.

Compliance: Boiler ash demand letter from local brick manufacturer is attached as **Annexure IV.** MoU for the same will be done during erection of the project.

Point 11.PP to ensure to utilize CER fund before the commissioning of the manufacturing activity in consultation with the District Collector.

Compliance: We assure Honorable SEAC for abiding by this condition.

Point 12.PP to complete green belt development with the provision of drip irrigation before the commissioning of the manufacturing activity.

Compliance: We assure for greenbelt development – it will be completed as per the plan before the commissioning of the manufacturing activity.The Management will provide drip irrigation/or similar system to save water used for greenbelt.

Point 13.PP to provide separate Sewage Treatment Plant for treatment of domestic sewage and ensure to achieve standard parameters issued by the CPCB/MPCB.

Compliance: Estimated domestic effluent will be 20 m^3/d. We assure that, it will be treated in Sewage Treatment Plant and ensure to achieve standard parameters issued by the MPCB.

Point 14.PP to provide sliding gate at entry and exit to achieve maximum turning radius of vehicle entering the site.

Compliance: We assure Honorable SEAC for abiding by this condition.

Please accept the reply and process it.

Thanking you,
Yours faithfully,
For M/s. Vilas Sahakari Sakhar Karkhana Limited – unit 2

(_____)
Managing Director
Enclosures: As above

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2, Tondar, Tq. Udgir, Dist. Latur

Annexure I

Point wise compliance of all issues raised during public hearing along with necessary budget provision, responsibility and time lines for its completion

#	Issue raised during public hearing	Applicant plan for its compliance/ implementation	Budget allocation (Rs. In lakhs)	Specific time line of compliance
1.	**Shri. R. U. Patil** The Sub-Regional Officer, MPCB, Latur & convenor:- 60 KLPD production will be taken in the said project and asked whether the required molasses is available with own factory or it will be taken from outside also other than the own factory and weather recording in this regard is in presentation and requested to show the slide.	According to the planning, the proposed distillery will use sugar cane juice/syrup during cane crushing season. Average yield of 70L per ton of cane observed for juice to ethanol. Thus, juice extracted from ~858 TPD of cane will get diverted to the distillery purpose. Remaining 1,642 tons of cane will be used for sugar manufacturing. In such situation, B- heavy molasses estimated to get produced during the seasonal operation will be 15,744 Tons. Considering the requirement of approx. 206 TPD for B-heavy molasses, it is feasible to operate the distillery for 77 off-seasonal days on the own B-heavy molasses. It is estimated that, the proposed distillery will require 19,158 tons of B-heavy molasses, from the market to operate the unit for remaining 93 days (total 330 days = 160 days using juice + 77 own B-heavy molasses + 93 days – B-heavy molasses from Market). If the unit plans to use C-molasses it will require 27,306 tons of C-molasses from the market for off-seasonal operations.	-	Continuous

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2, Tondar, Tq. Udgir, Dist. Latur

2.	**Dr. P. M. Joshi,** The regional officer, MPCB, Aurangabad and public hearing panel member :- asked about the latitude and longitude of the location of said project as previously incidence was happed when the name of the factory was M/s. Priyadarshani Sahakari Sakhar Karkhana and molasses was flowed into the Banshelki dam through Nala.	The present management took the charge of the unit in 2014-15. The same Management is operating sugar and distillery units in Latur district for past several years. The Management is well aware of its environmental responsibilities. Thus, it will take all necessary measures at all levels, to prevent such incidences. The Management assures the Public hearing committee and respective authorities about the same. Now a day, molasses (raw material) is an important by-product of the sugar unit. It is used in distilleries as a feed stock. Hence, presently it is properly stored in two MS tanks in the sugar unit. It is sold to potential buyers as per the demand and market. In case of proposed distillery unit, the Management has planned to install additional molasses storage MS tank of 10,000 ton capacity. It has made provision of Rs. 30.00 lakhs for the safe storage of molasses. The tank will be constructed as per the required standards and guidelines i.e. complying BIS. Considering the same, the Management has taken adequate measure to avoid odour nuisance and its impact on the soil in case of spillage.	30.00	Continuous during operation phase
3.	**Dr. Joshi** stated that previously molasses of the sugar factory was flowed.	Earlier, this unit was in operation as M/s. Priyadarshani Sahakari Sakhar Karkhana limited. The incidence mentioned here took place long before taking charge of the said unit by our Management.	-	Continuous

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2, Tondar, Tq. Udgir, Dist. Latur

		As mentioned above, molasses (raw material) is an important by-product of the sugar unit. It is used in distilleries as a feed stock. Hence, it will be properly stored and utilized in the own proposed distillery. Because of such measures, the probability of discharge of molasses will get reduced to almost zero level.		
4.	**Dr. Joshi** further stated that no question of emission of SO2 arise because the fuel is bagasse and the conc. Of SO2 is very less and secondly, the bagasse ash is not given to the kilns and it is given as manure and normally no ash from sugar factory is given to brick kilns, he suggested to see the consent conditions.	As communicated during public hearing, the Management has plan to send the ash to brick manufacturing unit only in case of use of coal for incineration purpose. The Honorable RO, MPCB stated the fact. Bagasse ash is used as a manure and the factory will continue the same practice in case of use of bagasse as a fuel.	Rs. 190 lakhs (for fuel and ash handling system)	Continuous during operation phase
5.	**Shri. Patil** suggested to use coal only when condition is stipulated in consent for the same, otherwise not to use.	Presently, the Management has planned to use coal for incineration process only due to technical advantages. It will take approval for the said fuel, in the consent. Because of high percent of moisture (approx. 50%) in the bagasse, incineration process using it as a fuel causing technical issues. Hence, presently most of the incineration units are using coal. Thus, the management has planned to use coal as a fuel. Later, if the technical/operational problems while using bagasse	-	Continuous during operation phase

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2, Tondar, Tq. Udgir, Dist. Latur

		gets resolved, the management may opt to use it as a fuel.		
6.	**Q 3. Shri. Pandit Vishwanath Dhage**, r/o Her, Tal. Udgir, Dist. Latur:- stated that farmers will get benefited due to said project employment opportunity will be available to the youths in the area, hence he congratulates the management.	The Management is thankful to Mr. Pandit Vishwanath Dhage for his support to the project. As a policy, the management always prefer local candidates for employment. The same policy will be continued for the proposed distillery project.	-	-
7.	**Q 4. Shri. Sandeep Rajendra Patil**, r/o. Tondar, Tal. Udgir, Dist. Latur :- stated that said project of 60 KLPD production is good for farmers, for youths, for increase in rate of cane, for financial progress, for employment opportunity for the unemployed and as far as pollution is concerned the factory is being operated in very good manner from last five years, that is since it is taken over for operation and no any incidence of pollution is happened at the said factory during the period of 5 years. He stated that he supports the said project and he has given about 560 Ton of sugar cane since the establishment of the factory	The Management is thankful to Mr. Sandeep Rajendra Patil for his support to the project.	-	-

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2, Tondar, Tq. Udgir, Dist. Latur

Annexure II

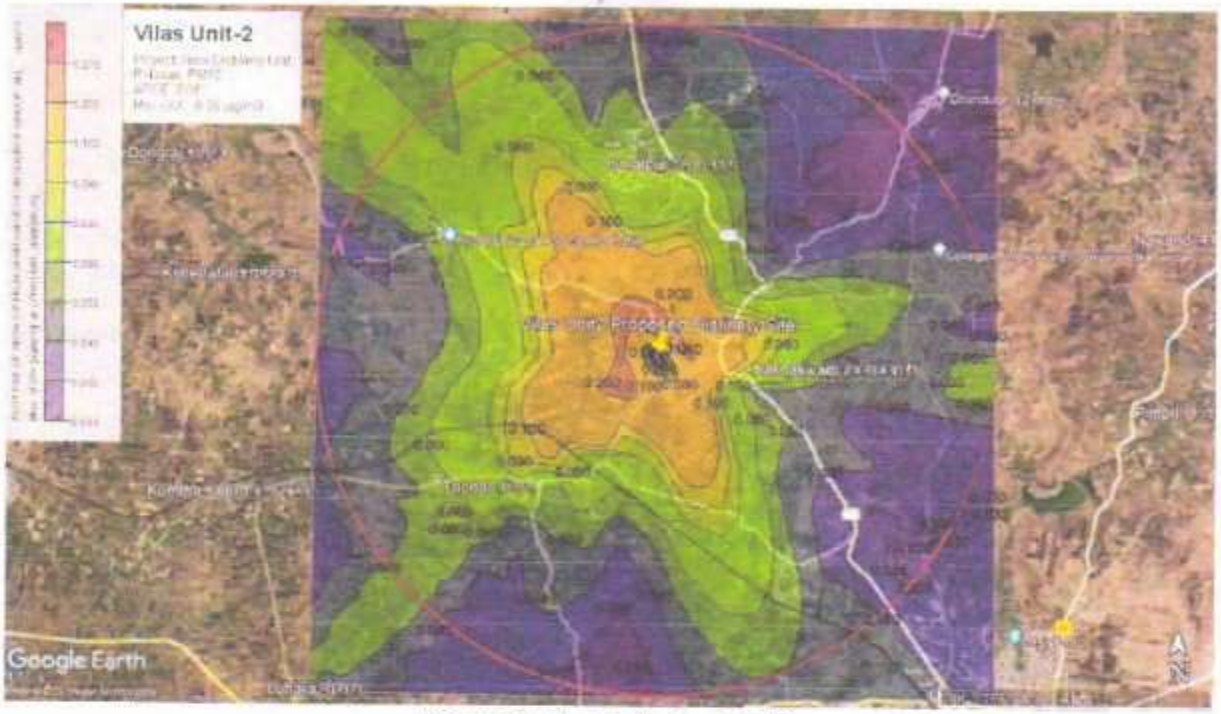


Figure 1: Isopleth for PM10

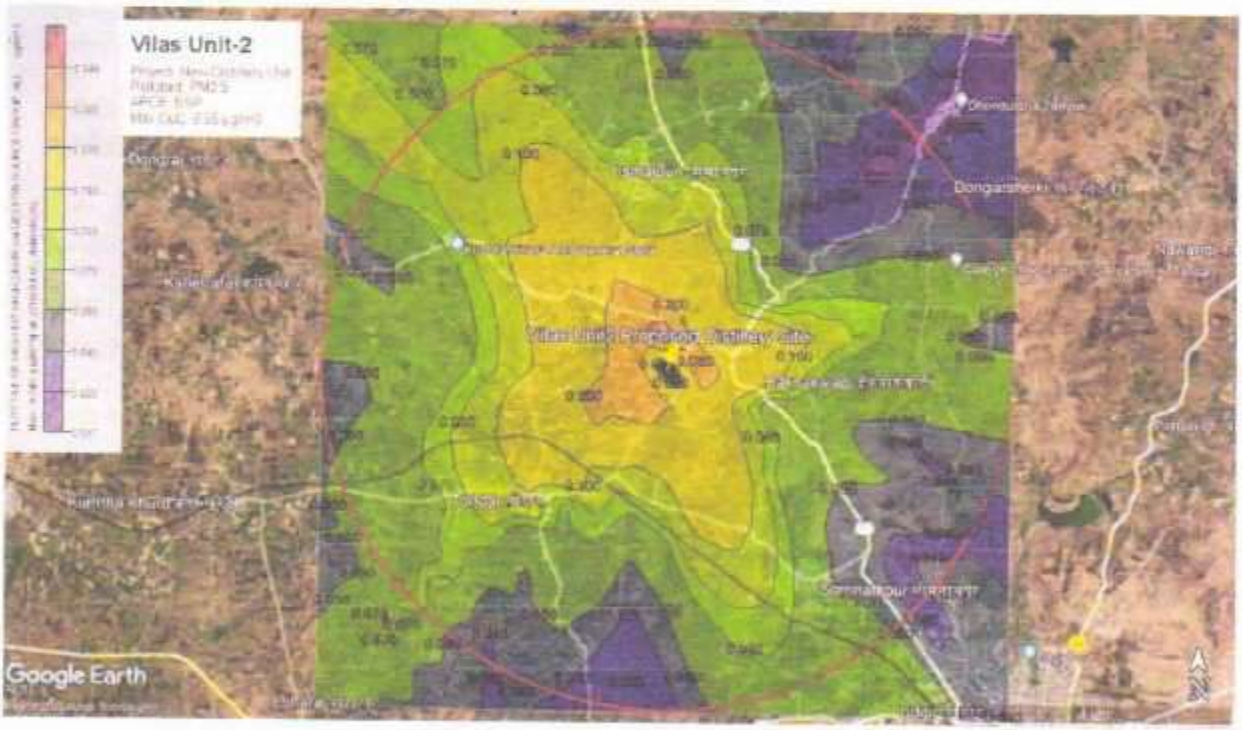


Figure 1: Isopleth for PM2.5

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2, Tondar, Tq. Udgir, Dist. Latur

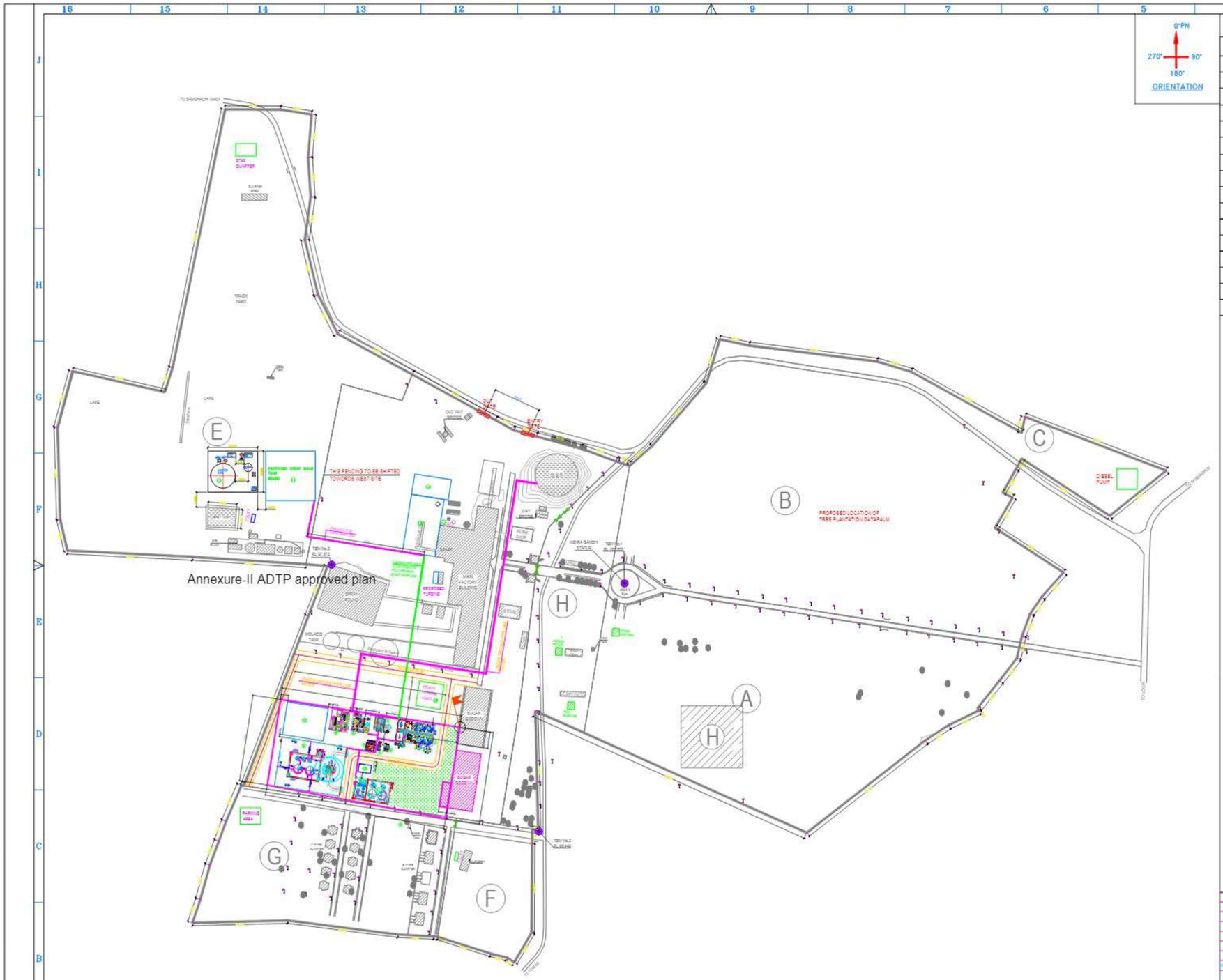
With reference to the revised estimates, the GLC is as follows.

Description	Concentration $\mu g/m^3$	
Pollutants	**PM 10**	**PM2.5**
Maximum rise in GLC	0.28	0.35
Direction of Occurrence and distance	NW (0.5 km)	NW (0.3 to1.5 km)
Coordinates of maximum GLC	18°26' 36.81" N 77°04' 8.4" E	18°26' 36.81" N 77°04' 8.4" E
Baseline Concentration reported nearby maximum incremental GLC	71.03 Hangarga Kudar	25.56 Hangarga Kudar
Maximum rise in GLC at downwind location	0.21	0.27
Total Concentration (Post project scenario)	71.24	25.83
NAAQS	PM_{10} 100	$PM_{2.5}$ 60
*The distance is measured from stack to the receptor of maximum GLC		

Managing Director
Vilas Sahakari Sakhar Karkhana Ltd.
Unit-2, Tondar, Tq. Udgir, Dist. Latur

Annexure-IC

Annexure III



ORIENTATION

0°PN
270°
90°
180°

LEGEND

SR. NO.	DESCRIPTION	SIZE IN MTS.
1	FERMENTATION SECTION+MCC PANEL & COMPRESSOR ROOM	44.50 x 35.500
2	DISTILLATION SECTION+MSDH SECTION	17.50 x 12.50
3	EVAPORATION SECTION	22.50 x 21.50
4	DAILY SPIRIT STORAGE & RECEIVER SECTION	41.00 x 28.00
5	ETHENOL STORAGE SECTION	83.50 x 59.550
6	COOLING TOWER FOR FERMENTATION SECTION	5.410 x 7.090
7	COOLING TOWER FOR DISTILLATION & EVAP. SECTION	15.0 x 10.0
8	COOLING TOWER FOR MSDH SECTION	2.972 x 7.092
9	WTP	25.0 x 22.0
10	PROCESS CONDENSATE TREATMENT PLANT	50.0 x 40.0
11	LAGOON & SETLING PIT	40.00 x 60.00
12	BIOMETHANTION PLANT	54.0 x 51.513
13	BOILER & TURBINE HOUSE	70.0 x 40.0
14	SPRAY DRYER	45.00 x 25.0
15	ADMIN BUILDING	15.00 x 10.0
16	HEAVY VEHICAL YARD	30.00 x 30.0

NOTES:-

1) ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
2) THIS DRAWING IS PRELIMINARY AND MAY CHANGE DURING DETAILED ENGINEERING.
3) INDICATES GREENARY.

CONFIDENTIAL

REV. NO.	DESCRIPTION	DRAWN	CHKD.	APPD.	DATE
0	FOR PROPOSAL ONLY NOT FOR EXECUTION	RMK	RN	NVG	09/08/2022

CLIENT : M/S VILAS SAHAKARI SAKHAR KARKHANA LTD. (UNIT-2)
PLANT : 60 KLPD DISTILLERY PLANT.
LOCATION : TONDAR, TAL-UDGIR, DIST-LATUR. PIN-413563

TITLE : SITE LOCATION PLAN

DO NOT SCALE THE DRAWING

SCALE 1:1000

PIL JOB CODE MKT

DWG. NO. MKT - 1 - SLP1001

SHEET 1 OF 1

REV. 0

CAD FILE NAME MKT-1-SLP1001

I.D. NO. MKT

Annexure-ID

Annexure IV

प्रो.शरद मुरलीधरराव फड

॥ श्री पांडूरंग प्रसन्न ॥

Mob.8412919231
9657098170

विठाई ट्रेडर्स & हार्डवेअर

अधिकृत विक्रेते – विट,सिमेंट,सळई,नागपुरी चौकट,सिमेंट चौकट
खिडक्या,लोखंडी दरवाजे इ.प्रकारचे बांधकाम साहित्य इ.योग्य दरात मिळेल.

* * * * * * तोंडार पाटी,हकनकवाडी ता.उदगीर जि.लातूर * * * * * *

दि :- 25/07/2022

प्रति
माननीय अध्यक्ष/संचालक साहेब
विकास स. सा. का. लि. यु-2 तोंडार.

महोदय,

विषय :- आवश्यक असल्यामुळे राख मिळणे बाबत.

अर्जदार :- श्री. प्रभु शरद मुरलीधर

महोदय, मी हकनवाडी येथील रहिवासी असून माझ्या मालकीच्या गट नं 641 येथे विटभट्टी असून, मला विटभट्टीसाठी राखेची आवश्यकता आहे. त्याबाबत अर्ज यापूर्वी दिलेला आहे. 1100 टन राख मिळणे आपण राख विक्रीचा मी माझ्या स्व:खर्चाने 09 : ना वाहनाद्वारे घेऊन जाणार आहे. तरी मला 1100 टन राख मिळणेबाबत विनंती.

आपला विश्वासू

विठाई ट्रेडर्स
Prop.
प्रोप्रायटर

Distillery Discharge

VIKAS S. S. K. LTD.
Unit-2, Tondar Tq Udgir Dist. Latur
Inward No. 80
Date 02/8/22
Clerk

प्रो. शिवाजी फड   ॥ श्री ॥   Mob.: 9922177110 9356141103

शिवाजी देवराव फड

एस.पी. विट उद्योग, तोंडार पाटी ता. उदगीर जि. लातूर

जा.क्र.   दिनांक : 6.8.2022

४

प्रती,

मा. कार्यकारी संचालक साहेब,

विकास स. सा. का. लि. तोंडार.

ता. उदगीर

अर्जदार :- शिवाजी देवराव फड.

विषय :- आपल्या कारखान्यातील राख मिळणे बाबत.

महोदय,

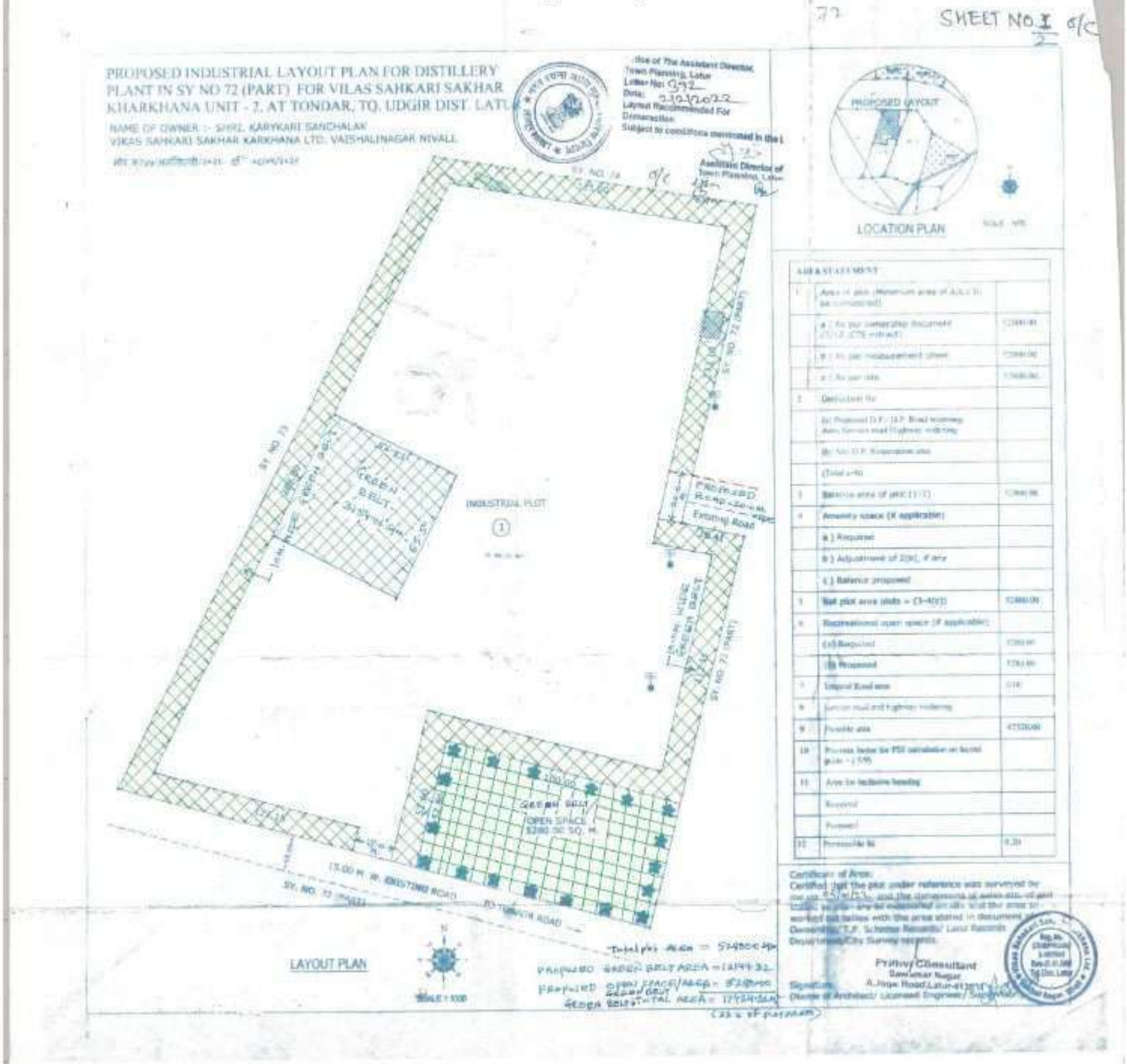
सेवेत विनंती करण्यात येते की वरील विषयास अनुसरून मि शिवाजी देवराव फड राहणार हकुनकवाडी येथील रहिवासी असून माझ्या मालकीची व माझ्या भावांच्या विटभट्टी असून माझ्या विटभट्टी साठी राखेची गरज असून तरी आपल्या कारखान्याची निघालेली राख मला मिळावी. आपण राख दिल्यास मी स्वखर्चाने माझ्या वाहनाने वाहतूक करून नेईन तरी मला 1100 टन राख मिळावी ही नम्र विनंती.

Distillery Incharge

VIKAS S. S. K. LTD.
Unit-2, Tondar Tq. Udgir Dist. Latur
Inward No. 586
Date 8/8/22
Clerk

6.8.2022
आपला विश्वासू
शिवाजी देवराव फड
रा. हकुनकवाडी
ता. उदगीर

Annexure-II: ADTP approved plan



Newspaper advertisement: the project has been accorded Environmental Clearance (Marathi and English)

पुरोगामी विचाराचे

एकमत

page- 8
17 Sep 2022

विलास सहकारी साखर कारखाना लि. युनिट-२,

तोंडार, ता. उदगीर, जि. लातूर (महाराष्ट्र)
फोन : (०२३८५) २३१००१, ई-मेल : vilassugar2@gmail.com

जा.क्र. विलास युनिट-२/सा.प्र./१२९५/२०२२-२३ दि. १६.०९.२०२२

जाहीर सूचना

मे. विलास सहकारी साखर कारखाना लिमिटेड, युनिट-२
प्लॉट नं. ७२ (अ)-१, ७२(आ)-२ ७५ (२)
पो. तोंडार, ता. उदगीर, जि. लातूर, महाराष्ट्र- ४१३ ५६३

आमच्या कारखान्याच्या मळीवर आधारीत नवीन आसवनी उत्पादन क्षमता ६० किलो लिटर प्रतिदिन या प्रकल्पासाठी राज्य पर्यावरण आघात मूल्यांकन प्राधिकरण (State Environment Impact Assessment Authority) यांच्या दिनांक २४.०८.२०२२ च्या पत्रानुसार पर्यावरण विषयक मंजुरी (Environment Clearance) मिळाली आहे. ही मंजुरी ई.आय.ए. अधिसुचना दि. १४ सप्टेंबर २००६ च्या तरतुदीनुसार देण्यात आली असून त्याची प्रत www.parivesh.nic.in या संकेतस्थळावर उपलब्ध आहे. सदर सूचना ही पर्यावरण विषयक मंजुरीतील अटींची पूर्तता करण्यासाठी देण्यात येत आहे.

मे. विलास सहकारी साखर कारखाना लिमिटेड, युनिट-२

Lokmat Times

'India facing highest unemployment rate'

Rahul Gandhi slams BJP during Bharat Jodo Yatra

I am meeting with many youngsters during our Bharat Jodo trip. understanding their expectations from the government, what kind of help they want from us to make their future bright and how many more possibilities can we create for them.
Rahul Gandhi, Senior Congress leader

Rahul to interact with cashew workers, others at Kollam

Vilas Sahakari Sakhar karkhana Ltd.Unit-2
Tondar, Ta Udgir, Dist. Latur (MH)
(02385) 231001 | e-mail: vilassugar2@gmail.com

Public Notice

This is to inform all that, the State Environment Impact Assessment Authority, Government of Maharashtra has granted 'Environmental Clearance' to M/s. VILAS SAHAKARI SAKHAR KARKHANA LTD. UNIT-2, located at Plot No. 72 (A)-1,72(AA)2,75(2) Village Tondar, Tal. Udgir, Dist. Latur, Maharashtra 413563, for its new molasses based distillery of 60 KLPD capacity on August 24, 2022. The 'Environmental Clearance' is granted under the provision of EIA notification dated 14th September 2006. The copy of environmental clearance is available on the web site www.parivesh.nic.in.

This advertisement is published in the public interest, according to the general conditions specified in the 'Environmental Clearance'.

For M/s. VILAS SAHAKARI SAKHAR KARKHANA LTD., (UNIT-2)

Managing Director

Neetal®
NEETAL LABORATORIES
And Environmental Services Pvt. Ltd.
Certifications :
ISO 9001 : 2015
ISO 14001 : 2015
ISO 45001 : 2018

TEST REPORT (Ambient Air)

Report No.	**NLES/22-23/03/AA/RE/237**	**Report Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Discipline	Chemical	**Date & Time of Sampling**	From 10:00 AM of 14/03/2023 to 6:00 PM of 14/03/2023 (8 hrs)
Group	Atmospheric Pollution	**Sampling Procedure**	IS 5182 Part 5
Sub Group	Ambient Air	**Sampling done by**	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Hangarga Kudar	**Dry bulb temperature**	31°C
Wet bulb temperature	20°C	**Relative Humidity**	33 %
Sample Volume	SO_2:30 ml ×1 no. (Plastic Bottle), NO_2:30 ml×1 no. (Plastic Bottle) PM_{10}:1×1no. (Filter Paper), $PM_{2.5}$:1×1no. (Filter Paper)		
Start Date of Analysis	15/03/2023	**End Date of Analysis**	20/03/2023
Instrument Details	Make	**Shree Scientific Equipment and Calibration, Zenver/ ZEN00077567/1018**	
	Instrument ID No.	**NLES/Lab/Inst/03**	
	Calibration Status	**Calibration on: 11/05/2022, Due On 10/05/2023**	

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO_2)	18.3	µg/m³	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO_2)	30.4	µg/m³	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM_{10}	67.8	µg/m³	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter $PM_{2.5}$	24.3	µg/m³	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O_3)	9.6	µg/m³	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH_3)	5.8	µg/m³	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	µg/m³	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m³	≤ 06	
9	Nickel (Ni)	BDL	ng/m³	≤ 20	
10	Carbon Monoxide (CO)	0.21	mg/m³	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m³	≤ 1.0	IS 5182 Part 12
12	Benzene(C_6H_6)	BDL	µg/m³	≤ 05	IS 5182 Part 11

Remark- All above results are within National Ambient Air Quality standards.

Reviewed By
Kalyani
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

**********End of Report**********

Terms and Conditions

- This Report is valid for tested sample only
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, NLES.

Page 1 of 1

TEST REPORT (Ambient Air)

Report No.	**NLES/22-23/03/AA/RE/238**	**Report Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Discipline	Chemical	**Date & Time of Sampling**	From 10:10 AM of 14/03/2023 to 6:10 PM of 14/03/2023 (8 hrs)
Group	Atmospheric Pollution	**Sampling Procedure**	IS 5182 Part 5
Sub Group	Ambient Air	**Sampling done by**	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Haknakwadi	**Dry bulb temperature**	30^0C
Wet bulb temperature	21^0C	**Relative Humidity**	32 %
Sample Volume	SO_2:30 ml ×1 no. (Plastic Bottle), NO_2:30 ml×1 no. (Plastic Bottle) PM_{10}:1×1no. (Filter Paper), $PM_{2.5}$:1×1no. (Filter Paper)		
Start Date of Analysis	15/03/2023	**End Date of Analysis**	20/03/2023
Instrument Details	Make	**Shree Scientific Equipment and Calibration, Zenver/ ZEN00077567/1018**	
	Instrument ID No.	**NLES/Lab/Inst/75**	
	Calibration Status	**Calibration on: 11/05/2022, Due On 10/05/2023**	

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO_2)	17.6	$\mu g/m^3$	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO_2)	31.3	$\mu g/m^3$	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM_{10}	68.4	$\mu g/m^3$	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter $PM_{2.5}$	23.5	$\mu g/m^3$	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O_3)	9.8	$\mu g/m^3$	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH_3)	5.4	$\mu g/m^3$	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	$\mu g/m^3$	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m^3	≤ 06	
9	Nickel (Ni)	BDL	ng/m^3	≤ 20	
10	Carbon Monoxide (CO)	0.23	mg/m^3	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 1.0	IS 5182 Part 12
12	Benzene(C_6H_6)	BDL	$\mu g/m^3$	≤ 05	IS 5182 Part 11

Remark- All above results are within National Ambient Air Quality standards.

Reviewed By
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

**********End of Report**********

Terms and Conditions

- This Report is valid for tested sample only
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, NLES.

Address : H.NO. 43, SANTOSH NAGAR, WAKI BK., TAL. KHED, DIST. PUNE - 410 501
Website : www.neetalenvirolab.com, Email: sales@neetalenvirolab.com / neetalenviro@gmail.com, Mob. 8669699854 / 52

TEST REPORT (Ambient Air)

Report No.	**NLES/22-23/03/AA/RE/239**	**Report Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Discipline	Chemical	**Date & Time of Sampling**	From 10:20 AM of 14/03/2023 to 6:20 PM of 14/03/2023 (8 hrs)
Group	Atmospheric Pollution	**Sampling Procedure**	IS 5182 Part 5
Sub Group	Ambient Air	**Sampling done by**	Neetal Laboratories and Environmental Services Private Limited
Sampling Location	Project Site	**Dry bulb temperature**	31°C
Wet bulb temperature	21°C	**Relative Humidity**	30 %
Sample Volume	SO_2:30 ml ×1 no. (Plastic Bottle), NO_2:30 ml×1 no. (Plastic Bottle) PM_{10}:1×1no. (Filter Paper), $PM_{2.5}$:1×1no. (Filter Paper)		
Start Date of Analysis	15/03/2023	**End Date of Analysis**	20/03/2023
Instrument Details	Make	**Shree Scientific Equipment and Calibration, Zenver/ ZEN00077567/1018**	
	Instrument ID No.	**NLES/Lab/Inst/76**	
	Calibration Status	**Calibration on: 11/05/2022, Due On 10/05/2023**	

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (NAAQ Standards)	Methods
1	Sulphur Dioxide (SO_2)	19.7	$\mu g/m^3$	≤ 80	IS 5182 (Part 2)
2	Oxides of Nitrogen (NO_2)	30.9	$\mu g/m^3$	≤ 80	IS 5182 (Part 6)
3	Particulate Matter PM_{10}	69.6	$\mu g/m^3$	≤ 100	IS 5182 (Part 4), 1999
4	Particulate Matter $PM_{2.5}$	24.2	$\mu g/m^3$	≤ 60	IS 5182 (Part 24), 2019
5	Ozone (O_3)	9.2	$\mu g/m^3$	≤ 180	Method 411, Air Sampling and Analysis, 3rd Edition, 2020
6	Ammonia (NH_3)	6.5	$\mu g/m^3$	≤ 400	Method 401, Air Sampling and Analysis 3rd Edition, 2020
7	Lead (Pb)	BDL	$\mu g/m^3$	≤ 01	Air Sampling and Analysis, 3rd Edition, 2020
8	Arsenic (As)	BDL	ng/m^3	≤ 06	
9	Nickel (Ni)	BDL	ng/m^3	≤ 20	
10	Carbon Monoxide (CO)	0.28	mg/m^3	≤ 04	GC FID Methanizer Method
11	Benzo(a)Pyrene (BaP)	BDL	ng/m^3	≤ 1.0	IS 5182 Part 12
12	Benzene(C_6H_6)	BDL	$\mu g/m^3$	≤ 05	IS 5182 Part 11

Remark- All above results are within National Ambient Air Quality standards.

Reviewed By
Kalyani
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

**********End of Report**********

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TEST REPORT

Report No.	**NLES/22-23/03/NI/RE/240**	**Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Discipline	Chemical		
Group	Atmospheric Pollution		
Sub Group	Ambient Air		
Sample Name	Ambient Noise		
Date of Sampling	14/03/2023 Annexure-II: ADTP approved plan		
Method of Sampling	IS 9989: 1981		
Sampling Duration	24 hrs		
Sampling done by	Neetal Laboratories and Environmental Services Private Limited		
Instrument Details	Make	**LUTRON SL-4023SD**	
	Instrument ID No.	**NLES/Lab/Inst/06**	
	Calibration Status	**Calibration on: 11/05/2022, Due On 10/05/2023**	

Results

Sr. No.	Location	Average Noise Level Reading dB(A)		Limits as per CPCB guidelines
		Day Time	Night Time	
1	Project Site (Near Sugar Unit)	67.5	58.9	Day Time = 75 dB Night Time = 70 dB
2	Project Site (Distillery construction site)	69.2	59.6	
3	Gandipadi	65.6	57.4	

Remark- Noise level results are within Central Pollution Control Board Standards limit.

Reviewed By
Kalyani
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT (Stack Emission)

Report No.	**NLES/22-23/03/ST/RE/241**	**Report Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Discipline	Chemical	**Sample Description**	Stack Material: MS
Group	Pollution & Environment.		Stack Height: 2.5 Mtr
Sub Group	Stack Emission		Stack Type: Round
Date of Sampling	14/03/2023	**Sampling Location**	DG Stack (350 KVA)
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	**Sampling duration**	30 Min
Sample Quantity	Thimble 1 Nos and 30 ml Solution	**Sampling Procedure**	CPCB Guideline on methodologies for source emission monitoring
Start Date of Analysis	15/03/2023	**End Date of Analysis**	20/03/2023
Instrument Details	Make/ Model No.	**Shree Scientific and Calibration /SEM-150,220508**	
	Lab ID	**NLES/Lab/Inst/01**	
	Calibration Date	**Calibration on: 11/05/2022, Due On 10/05/2023**	

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (MPCB Consent)	Methods
1	Flue Gas Temperature	404	°K	--	--
2	Differential Pressure	4.0	mm WG		
3	Velocity	7.66	M/s		
4	Dimensions of Stack	0.1016	Mtr.		
5	Stack Area	0.0081	M^2		
6	Gas Volume	164.81	Nm3/Hr		
7	Total Particulate Matter	8.5	mg/Nm3	≤ 150	IS 11255 (Part 1)
8	Sulphur Dioxide (SO_2)	16.7	mg/Nm3	N.S.	IS 11255 (Part 2)
9	Sulphur Dioxide (SO_2)	0.066	Kg/day	N.S.	IS 11255 (Part 2)
10	Oxides of Nitrogen (Nox)	25.4	mg/Nm3	N.S.	IS 11255 (Part 7)

Remark- All above results are well within MPCB Limit. N.S-Not Specified,

Reviewed By
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No:	**NLES/22-23/03/ST/RE/242**	**Report Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Sample Name	D.G. Insertion	**Date of Sampling**	**14/03/2023**
Sampling done by	Neetal Laboratories and Environmental Services Private Limited		
Instrument Details	Make: **LUTRON SL-4023SD**		
	Instrument ID No.: **NLES/Lab/Inst/06**		
	Calibration Status: **Calibration on: 11/05/2022, Due On 10/05/2023**		

Results

Sr. No.	Locations	Sampling Location	Noise Level dB(A)		Insertion Loss dB(A)		As per MPCB Limit
		0.5 Meter Away from D.G. Set	Acoustic Enclosure Open	Acoustic Enclosure Closed			
1	DG Stack-350 KVA	East	103.1	77.2	25.9	25.6	Min. 25 dB(A)
		West	103.4	76.1	27.3		
		South	103.0	78.5	24.5		
		North	103.4	78.7	24.7		

Remark: Insertion Loss Level is within MPCB Limit.

Reviewed By
Kalyani
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No:	**NLES/22-23/03/GW/RE/243**	**Report Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Discipline	Chemical	**Date of Sample Collection**	14/03/2023
Group	Water	**Sample Quantity**	02 Liter Plastic can + 100 ml Sterile Glass Bottle
Sub Group	Ground Water	**Sampling Procedure**	APHA 1060
Sample Description	Haknakwadi	**Sample Status**	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	**Environmental Condition for sample storage and Analysis**	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	15/03/2023	**End Date of Analysis**	20/03/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (IS 10500:2012) Max	Methods
1	Colour	1.0	Hazen	5	IS: 3025 Part-4
2	pH at 25°C	7.26	-	6.5 to 8.5	APHA 4500 H^+ A, 23rd Ed. 2017
3	Turbidity	0.86	NTU	1	IS: 3025 Part-10
4	Total Dissolved Solids	678.0	mg/l	500	APHA 2540 C, 23rd Ed. 2017
5	Chloride (as Cl)	152.4	mg/l	250	APHA 4500 Cl-, B 23rd Ed. 2017
6	Residual Chlorine as Cl	<0.10	mg/l	Min 0.2	IS 3025 Part 26 (Rev.1, RA 2014)
7	Calcium	102.3	mg/l	75	APHA 3500 Ca B, 23rd Ed. 2017
8	Magnesium	35.6	mg/l	30	APHA 3500 Mg A, 23rd Ed. 2017
9	Sulphate (as SO4)	78.9	mg/l	200	APHA 4500 SO4 E, 23rd Ed. 2017
10	Total Alkalinity (as CaCO3)	269.5	mg/l	200	APHA 2320 B, 23rd Ed. 2017
11	Total Hardness (as CaCO3)	390.7	mg/l	200	APHA 2340 B, 23rd Ed. 2017
12	Nitrate (as NO_3)	1.17	mg/l	45	APHA 4500 NO3- B 23rd Ed. 2017
13	Fluoride (as F)	0.15	mg/l	1.0	APHA 4500 F^- D 23rd Ed. 2017
14	Total Suspended Solids (TSS) at 103°C to 105°C	9.0	mg/l	N.S	APHA2540, D, 23rd Ed. 2017
15	Phosphate (as PO_4^{2-})	0.26	mg/l	N.S	APHA 4500 P-B ,23rd Ed. 2017.
16	Silica (as SiO_2)	13.5	mg/l	N.S	IS 3025 (Part 35)
17	Dissolved Oxygen	4.6	mg/l	N.S	IS 3025 (Part 38)
18	Total Kjeldahl Nitrogen	2.8	mg/l	N.S	IS 3025 (Part 34)
19	Chemical Oxygen Demand(COD)	15.5	mg/l	N.S	IS 3025 (Part 58), 2006
20	Biochemical Oxygen Demand (BOD)	5.0	mg/l	N.S	IS 3025 (Part 44), 2019
21	Iron (as Fe)	0.25	mg/l	1.0	APHA 3111B, 23rd Ed. 2017
22	Sodium (as Na)	9.4	mg/l	N.S	APHA 3500 Na-B 23rd Ed. 2017.
23	Potassium (as K)	1.32	mg/l	N.S	APHA 3500 K-B 23rd Ed. 2017.
24	Aluminum (as Al)	<0.01	mg/l	0.03	APHA 3100 D 23rd Ed. 2017.

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25	Copper (as Cu)	<0.01	mg/l	0.05	APHA 3111B 23rd Ed. 2017.
26	Boron (as B)	<0.1	mg/l	0.5	APHA. ,4500-B, 23rd Ed. 2017
27	Total Arsenic (as As)	<0.01	mg/l	0.01	APHA 3114 C 23rd Ed. 2017
28	Total Chromium (as Cr)	<0.01	mg/l	0.05	APHA 3114 C 23rd Ed. 2017
29	Total Coliform	Absent	per/100ml	Absent	IS 1622(R.A.1996)
30	E.coli	Absent	MPN/100ml	Absent	IS 1622(R.A.1996)
Remark: The above water sample is not Comply with required limit as per 10500:2012 & based on the above test parameters, it is suitable for drinking purpose. N.S-Not Specified .					

Reviewed By
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

**********End of Report**********

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Website : www.neetalenvirolab.com, Email: sales@neetalenvirolab.com / neetalenviro@gmail.com, Mob. 8669699854 / 52

TEST REPORT

Report No:	**NLES/22-23/03/GW/RE/244**	**Report Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Discipline	Chemical	**Date of Sample Collection**	14/03/2023
Group	Water	**Sample Quantity**	02 Liter Plastic can + 100 ml Sterile Glass Bottle
Sub Group	Ground Water	**Sampling Procedure**	APHA 1060
Sample Description	Gandipati	**Sample Status**	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	**Environmental Condition for sample storage and Analysis**	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	15/03/2023	**End Date of Analysis**	20/03/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (IS 10500:2012) Max	Methods
1	Colour	1.0	Hazen	5	IS: 3025 Part-4
2	pH at 25°C	7.89	-	6.5 to 8.5	APHA 4500 H^+ A, 23rd Ed. 2017
3	Turbidity	1.54	NTU	1	IS: 3025 Part-10
4	Total Dissolved Solids	542	mg/l	500	APHA 2540 C, 23rd Ed. 2017
5	Chloride (as Cl)	133.9	mg/l	250	APHA 4500 Cl-, B 23rd Ed. 2017
6	Residual Chlorine as Cl	<0.10	mg/l	Min 0.2	IS 3025 Part 26 (Rev.1, RA 2014)
7	Calcium	87.8	mg/l	75	APHA 3500 Ca B, 23rd Ed. 2017
8	Magnesium	27.6	mg/l	30	APHA 3500 Mg A, 23rd Ed. 2017
9	Sulphate (as SO4)	71.2	mg/l	200	APHA 4500 SO4 E, 23rd Ed. 2017
10	Total Alkalinity (as CaCO3)	252.6	mg/l	200	APHA 2320 B, 23rd Ed. 2017
11	Total Hardness (as CaCO3)	321.5	mg/l	200	APHA 2340 B, 23rd Ed. 2017
12	Nitrate (as NO_3)	1.24	mg/l	45	APHA 4500 NO3- B 23rd Ed. 2017
13	Fluoride (as F)	0.45	mg/l	1.0	APHA 4500 F- D 23rd Ed. 2017
14	Total Suspended Solids (TSS) at 103°C to 105°C	12.0	mg/l	N.S	APHA2540, D, 23rd Ed. 2017
15	Phosphate (as PO_4^{2-})	0.43	mg/l	N.S	APHA 4500 P-B ,23rd Ed. 2017.
16	Silica (as SiO_2)	10.4	mg/l	N.S	IS 3025 (Part 35)
17	Dissolved Oxygen	4.7	mg/l	N.S	IS 3025 (Part 38)
18	Total Kjeldahl Nitrogen	3.6	mg/l	N.S	IS 3025 (Part 34)
19	Chemical Oxygen Demand(COD)	10.5	mg/l	N.S	IS 3025 (Part 58), 2006
20	Biochemical Oxygen Demand (BOD)	<5.0	mg/l	N.S	IS 3025 (Part 44), 2019
21	Iron (as Fe)	0.29	mg/l	1.0	APHA 3111B, 23rd Ed. 2017
22	Sodium (as Na)	8.3	mg/l	N.S	APHA 3500 Na-B 23rd Ed. 2017.
23	Potassium (as K)	1.04	mg/l	N.S	APHA 3500 K-B 23rd Ed. 2017.
24	Aluminum (as Al)	<0.01	mg/l	0.03	APHA 3100 D 23rd Ed. 2017.

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Website : www.neetalenvirolab.com, Email: sales@neetalenvirolab.com / neetalenviro@gmail.com, Mob. 8669699854 / 52

25	Copper (as Cu)	<0.01	mg/l	0.05	APHA 3111B 23rd Ed. 2017.
26	Boron (as B)	<0.1	mg/l	0.5	APHA. ,4500-B, 23rd Ed. 2017
27	Total Arsenic (as As)	<0.01	mg/l	0.01	APHA 3114 C 23rd Ed. 2017
28	Total Chromium (as Cr)	<0.01	mg/l	0.05	APHA 3114 C 23rd Ed. 2017
29	Total Coliform	Absent	per/100ml	Absent	IS 1622(R.A.1996)
30	E.coli	Absent	MPN/100ml	Absent	IS 1622(R.A.1996)
Remark: The above water sample is not Comply with required limit as per 10500:2012 & based on the above test parameters, it is suitable for drinking purpose. N.S-Not Specified .					

Reviewed By
Kalyani
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

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TEST REPORT

Report No:	**NLES/22-23/03/GW/RE/245**	**Report Issue Date**	**20/03/2023**
Name and Address of Customer	**M/s. Vilas Sahakari Sakhar Karkhana Limited, (Unit-II)** Village-Tondar, Tal-Udgir, Dist-Latur, Maharashtra-413563.		
Discipline	Chemical	**Date of Sample Collection**	14/03/2023
Group	Water	**Sample Quantity**	02 Liter Plastic can + 100 ml Sterile Glass Bottle
Sub Group	Ground Water	**Sampling Procedure**	APHA 1060
Sample Description	Tondar	**Sample Status**	Sealed
Sampling done by	Neetal Laboratories and Environmental Services Private Limited	**Environmental Condition for sample storage and Analysis**	Temperature: 25 °C ±5 °C & Humidity: 30 % to 80 % RH
Start Date of Analysis	15/03/2023	**End Date of Analysis**	20/03/2023

Results

Sr. No.	Parameters	Results	Unit(s)	Specifications (IS 10500:2012) Max	Methods
1	Colour	1.0	Hazen	5	IS: 3025 Part-4
2	pH at 25°C	8.26	-	6.5 to 8.5	APHA 4500 H^+ A, 23rd Ed. 2017
3	Turbidity	1.32	NTU	1	IS: 3025 Part-10
4	Total Dissolved Solids	623	mg/l	500	APHA 2540 C, 23rd Ed. 2017
5	Chloride (as Cl)	142.5	mg/l	250	APHA 4500 Cl-, B 23rd Ed. 2017
6	Residual Chlorine as Cl	<0.10	mg/l	Min 0.2	IS 3025 Part 26 (Rev.1, RA 2014)
7	Calcium	81.5	mg/l	75	APHA 3500 Ca B, 23rd Ed. 2017
8	Magnesium	25.7	mg/l	30	APHA 3500 Mg A, 23rd Ed. 2017
9	Sulphate (as SO4)	23.4	mg/l	200	APHA 4500 SO4 E, 23rd Ed. 2017
10	Total Alkalinity (as CaCO3)	243.8	mg/l	200	APHA 2320 B, 23rd Ed. 2017
11	Total Hardness (as CaCO3)	318.7	mg/l	200	APHA 2340 B, 23rd Ed. 2017
12	Nitrate (as NO_3)	1.62	mg/l	45	APHA 4500 NO3- B 23rd Ed. 2017
13	Fluoride (as F)	0.53	mg/l	1.0	APHA 4500 F- D 23rd Ed. 2017
14	Total Suspended Solids (TSS) at 103°C to 105°C	14.0	mg/l	N.S	APHA2540, D, 23rd Ed. 2017
15	Phosphate (as PO_4^{2-})	0.37	mg/l	N.S	APHA 4500 P-B ,23rd Ed. 2017.
16	Silica (as SiO_2)	15.4	mg/l	N.S	IS 3025 (Part 35)
17	Dissolved Oxygen	4.9	mg/l	N.S	IS 3025 (Part 38)
18	Total Kjeldahl Nitrogen	3.72	mg/l	N.S	IS 3025 (Part 34)
19	Chemical Oxygen Demand(COD)	19.8	mg/l	N.S	IS 3025 (Part 58), 2006
20	Biochemical Oxygen Demand	7.0	mg/l	N.S	IS 3025 (Part 44), 2019
21	Iron (as Fe)	0.38	mg/l	1.0	APHA 3111B, 23rd Ed. 2017
22	Sodium (as Na)	12.3	mg/l	N.S	APHA 3500 Na-B 23rd Ed. 2017.
23	Potassium (as K)	1.59	mg/l	N.S	APHA 3500 K-B 23rd Ed. 2017.
24	Aluminum (as Al)	<0.01	mg/l	0.03	APHA 3100 D 23rd Ed. 2017.

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25	Copper (as Cu)	<0.01	mg/l	0.05	APHA 3111B 23rd Ed. 2017.
26	Boron (as B)	<0.1	mg/l	0.5	APHA. ,4500-B, 23rd Ed. 2017
27	Total Arsenic (as As)	<0.01	mg/l	0.01	APHA 3114 C 23rd Ed. 2017
28	Total Chromium (as Cr)	<0.01	mg/l	0.05	APHA 3114 C 23rd Ed. 2017
29	Total Coliform	Absent	per/100ml	Absent	IS 1622(R.A.1996)
30	E.coli	Absent	MPN/100ml	Absent	IS 1622(R.A.1996)
Remark: The above water sample is not Comply with required limit as per 10500:2012 & based on the above test parameters, it is suitable for drinking purpose. N.S-Not Specified					

Reviewed By
Kalyani
(Ms. Kalyani Gore)
(Technical Manager)

Neetal Laboratories And Environmental Services Pvt. Ltd. PUNE

Authorized Signatory
(Mr. Abhishek Tope)
(Quality Manager)

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MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010706/24010437
Fax: 24023516
Website: http://mpcb.gov.in
Email: cac-cell@mpcb.gov.in

Kalpataru Point, 2nd and 4th floor, Opp. Cine Planet Cinema, Near Sion Circle, Sion (E), Mumbai-400022

RED/L.S.I (R60)
No:- Format1.0/CAC/UAN No.MPCB-CONSENT-0000103502/CE - 2108000624

Date: 10/08/2021

To,
Vilas Sahakari Sakhar Karkhana Ltd., Unit-2,
72, At.post Tondar,
Udgir, Latur.

Your Service is Our Duty

Sub: Consent to to establish in the name of M/s. Vilas Sahakari Sakhar Karkhana Ltd. Unit 2. for 60 KLPD molasses base distillery unit, under RED category.

Ref:
1. Earlier consent grant by the Board No:-Format1.0/CAC/UAN No.MPCB-CONSENT-0000087403/CR-2011000849 dtd. 12.11.2020.
2. Minutes of 22nd CAC meeting held on 02.02.2021 & 05.02.2021.

Your application No.MPCB-CONSENT-0000103502 Dated 03.12.2020

For: Consent to Establish under Section 25 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **The consent to establish is granted for a period up to commissioning of the unit or up to 5 year whichever is earlier.**
2. **The capital investment of the project is Rs.90.2151 Crs. (As per C.A Certificate submitted by industry Existing-Rs. 90.1715 Crs + Expansion/Increase in C.I. - Rs. 90.2151480 Crs)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Rectified Spirit	60	KL/D
2	ENA	60	KL/D
3	Ethanol	54.28	KL/D
By Products			
4	Impure Spirit (By-product)	3	KL/D
5	Fusel Oil (By-product)	3	KL/D

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	480	As per Schedule-I	MEE followed by Incineration Boiler.
2.	Domestic effluent	8	As per Schedule-I	On land for gardening

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	1	Boiler	1	As per Schedule -II

6. **Non-Hazardous Wastes:**

Sr No	Type of Waste	Quantity	UoM	Treatment	Disposal
1	Yeast Sludge	10	KL/D	NA	Incineration in Incineration boiler
2	Fly Ash	28.5	MT/Day	NA	Sale to Brick manufacturer for reuse
3	CPU Sludge	28	MT/Day	Dewatering	Incineration in Incineration boiler
4	Discarded Containers	200	Nos./Y	Sale	Authorized Person

7. **Conditions under Hazardous & Other Wastes (M & T M) Rules 2016 for treatment and disposal of hazardous waste:**

Sr No	Category No./ Type	Quantity	UoM	Treatment	Disposal
1	5.1 Used or spent oil	100	Ltr/A	Incineration in Incineration Boiler	Incineration in Incineration Boiler

8. The Board reserves the right to review, amend, suspend, revoke this consent and the same shall be binding on the industry.
9. This consent should not be construed as exemption from obtaining necessary NOC/ permission from any other Government authorities.
10. The applicant should not take any effective steps for implementation of the project before obtaining Environmental Clearance as per EIA Notification 2006 and amendments thereto. As per Para 2 of EIA notification dated- 14.09.2006, the effective steps include starting of any construction work or preparation of land by the project management. However as clarified by the MoEF vide office memorandum no. J-1103/41/2006-IA.II(I); Dated- 19/08/2010, fencing of the site to protect it from getting encroached and construction of temporary shed(s) for the guard(s) & acquisition of land not be treated as an effective step.
11. This consent is issued pursuant to the decision of the 22nd Consent Appraisal Committee Meeting held on 02.02.2021 & 05.02.2021.
12. Industry shall install online continuous monitoring system as per CPCB guidelines & data to be transmitted directly from Data Logger to Board server .

13. The applicant shall obtain Consent to Operate from Maharashtra Pollution Control Board before actual commencement of the Unit/Activity. (Establish)
14. Industry shall not take any effective steps prior to obtaining Environment Clearance and submit BG of Rs. 5 lakh towards compliance of same and consent conditions
15. Industry shall achieve ZLD for Spent wash generated by concentration and Incineration Boiler.

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok Shingare IAS),
Member Secretary

Received Consent fee of -

Sr.No	Amount(Rs.)	Transaction/DR.No.	Date	Transaction Type
1	125000.00	MPCB-DR-3187	10/12/2020	NEFT

Copy to:

1. Regional Officer, MPCB, Aurangabad and Sub-Regional Officer, MPCB, Latur
   - They are directed to ensure the compliance of the consent conditions.
2. Chief Accounts Officer, MPCB,Sion, Mumbai
3. CAC-CC desk - for record & website updation.

SCHEDULE-I

Terms & conditions for compliance of Water Pollution Control:

1.Conditions for Trade effluent:

A] You have proposed to provide comprehensive treatment for volume reduction consisting of Multiple Effect Evaporator followed by incineration boiler of capacity 22 TPH. So as to achieve zero liquid discharge.

B] Industry shall provide CPU for recycle/reuse of treated effluent.

C] Industry shall install Online Continuous Emission Monitoring System (OCEMS) before 1st Operate and shall transmit Online Continuous Emission Monitoring System (OCEMS) data to Board's Server directly from data logger without any intermediate server.

2.Conditions for Sewage/ Domestic effluent:

i. You shall provide sewage treatment plant for the treatment of CMD sewage generation due to expansion and provide including disinfection facility.

ii. The industry shall operate sewage treatment system to treat the sewage/ domestic effluent so as to achieve the standards as prescribed by the board/under EP Act, 1986 and rules made thereunder from time to time whichever is stringent.

Sr.No	Parameter	Concentration not to exceed(in mg/l except for pH
1.	pH	6.5-9.0
2.	BOD	30
3.	TSS	100

iii. The sewage shall be treated by using septic tank and soak pit and overflow if any shall be used on-land for gardening/irrigation.

4. The Applicant shall comply with the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and as amended, by installing water meters and other provisions as contained in the said act:

Sr. No.	*Purpose for water consumed*	*Water consumption quantity (CMD)*
1.	Industrial Cooling, spraying in mine pits or boiler feed	111.00
2.	Domestic purpose	10.00
3.	Processing whereby water gets polluted & pollutants are easily biodegradable	556.00
4.	Processing whereby water gets polluted & pollutants are not easily biodegradable and are toxic	0.00
5.	Gardening	14

5. The Applicant shall provide Specific Water Pollution control system as per the conditions of EP Act, 1986 and rule made there under from time to time/ Environmental Clearance.

SCHEDULE-II

Terms & conditions for compliance of Air Pollution Control:

1. As per your application, you have proposed to provide the Air pollution control (APC) system and also to erect following stack (s) to observe the following fuel pattern:

Stack No.	Stack Attached To	APC System	Height in Mtrs.	Type of Fuel	Quantity & UoM
1	Boiler	ESP	66	Coal+Spentwash	2164 MT/Hr

2. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
3. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.
4. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
5. The applicant shall operate and maintain above mentioned air pollution control system, so as to achieve the level of pollutants to the following standards:

Particulate matter	Not to exceed	150 mg/Nm3

6. Storage of raw materials, coal etc. shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
7. The industry shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules, 1986 and connected to MPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
8. The industry shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office MPCB.
9. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
10. Industry shall provide Online Continuous Emission Monitoring System (OCEMS) i.e. flow meter and night vision camera to ensure the Zero Liquid Discharge (ZLD) of spent wash and OCEMS for Boiler stack for PM parameter.

SCHEDULE-III
Details of Bank Guarantees:

Sr. No.	Consent (C2E/ C2O /C2R)	Amt of BG Imposed	Submission Period	Purpose of BG	Compliance Period	Validity Date
1	C to E	500000	15 days	Towards not to take any effective steps prior to obtaining Environment Clearance and compliance of consent conditions.	up to 1st operate	up to 1st operate

BG Forfeiture History

Srno.	Consent (C2E/C2O/C2R)	Amount of BG imposed	Submission Period	Purpose of BG	Amount of BG Forfeiture	Reason of BG Forfeiture
NA						

BG Return details

Srno.	Consent (C2E/C2O/C2R)	BG imposed	Purpose of BG	Amount of BG Returned
NA				

SCHEDULE-IV
General Conditions:

1. The Energy source for lighting purpose shall preferably be LED based
2. The PP shall harvest rainwater from roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial applications within the plant
3. Conditions for D.G. Set
   a) Noise from the D.G. Set should be controlled by providing an acoustic enclosure or by treating the room acoustically.
   b) Industry should provide acoustic enclosure for control of noise. The acoustic enclosure/ acoustic treatment of the room should be designed for minimum 25 dB (A) insertion loss or for meeting the ambient noise standards, whichever is on higher side. A suitable exhaust muffler with insertion loss of 25 dB (A) shall also be provided. The measurement of insertion loss will be done at different points at 0.5 meters from acoustic enclosure/room and then average.
   c) Industry should make efforts to bring down noise level due to DG set, outside industrial premises, within ambient noise requirements by proper sitting and control measures.
   d) Installation of DG Set must be strictly in compliance with recommendations of DG Set manufacturer.
   e) A proper routine and preventive maintenance procedure for DG set should be set and followed in consultation with the DG manufacturer which would help to prevent noise levels of DG set from deteriorating with use.
   f) D.G. Set shall be operated only in case of power failure.

g) The applicant should not cause any nuisance in the surrounding area due to operation of D.G. Set.

h) The applicant shall comply with the notification of MoEFCC, India on Environment (Protection) second Amendment Rules vide GSR 371(E) dated 17.05.2002 and its amendments regarding noise limit for generator sets run with diesel.

4. The applicant shall maintain good housekeeping.
5. The non-hazardous solid waste arising in the factory premises, sweepings, etc. be disposed of scientifically so as not to cause any nuisance / pollution. The applicant shall take necessary permissions from civic authorities for disposal of solid waste.
6. The applicant shall not change or alter the quantity, quality, the rate of discharge, temperature or the mode of the effluent/emissions or hazardous wastes or control equipments provided for without previous written permission of the Board. The industry will not carry out any activity, for which this consent has not been granted/without prior consent of the Board.
7. The industry shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
8. The industry shall submit quarterly statement in respect of industries obligation towards consent and pollution control compliance's duly supported with documentary evidences (format can downloaded from MPCB official site).
9. The industry shall submit official e-mail address and any change will be duly informed to the MPCB.
10. The industry shall achieve the National Ambient Air Quality standards prescribed vide Government of India, Notification No. B-29016/20/90/PCI-L dated. 18.11.2009 as amended.
11. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions. The Applicant shall obtain prior consent of the Board to take steps to establish the unit or establish any treatment and disposal system or an extension or addition thereto.
12. The industry shall ensure replacement of pollution control system or its parts after expiry of its expected life as defined by manufacturer so as to ensure the compliance of standards and safety of the operation thereof.
13. The PP shall provide personal protection equipment as per norms of Factory Act
14. Industry should monitor effluent quality, stack emissions and ambient air quality monthly/quarterly.
15. Whenever due to any accident or other unforeseen act or even, such emissions occur or is apprehended to occur in excess of standards laid down, such information shall be forthwith Reported to Board, concerned Police Station, office of Directorate of Health Services, Department of Explosives, Inspectorate of Factories and Local Body. In case of failure of pollution control equipments, the production process connected to it shall be stopped.
16. The applicant shall provide an alternate electric power source sufficient to operate all pollution control facilities installed to maintain compliance with the terms and conditions of the consent. In the absence, the applicant shall stop, reduce or otherwise, control production to abide by terms and conditions of this consent.
17. The industry shall recycle/reprocess/reuse/recover Hazardous Waste as per the provision contain in the Hazardous and Other Wastes (M & TM) Rules 2016, which can be recycled /processed /reused /recovered and only waste which has to be incinerated shall go to incineration and waste which can be used for land filling and cannot be recycled/reprocessed etc. should go for that purpose, in order to reduce load on incineration and landfill site/environment.
18. An inspection book shall be opened and made available to the Board's officers during their visit to the applicant.

19. Industry shall strictly comply with the Water (P&CP) Act, 1974, Air (P&CP) Act, 1981 and Environmental Protection Act, 1986 and industry specific standard under EP Rules 1986 which are available on MPCB website (www.mpcb.gov.in).
20. Separate drainage system shall be provided for collection of trade and sewage effluents. Terminal manholes shall be provided at the end of the collection system with arrangement for measuring the flow. No effluent shall be admitted in the pipes/sewers downstream of the terminal manholes. No effluent shall find its way other than in designed and provided collection system.
21. Neither storm water nor discharge from other premises shall be allowed to mix with the effluents from the factory.
22. The industry should not cause any nuisance in surrounding area.
23. The industry shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standard in respect of noise to less than 75 dB (A) during day time and 70 dB (A) during night time. Day time is reckoned in between 6 a.m. and 10 p.m. and night time is reckoned between 10 p.m. and 6 a.m.
24. The industry shall create the Environmental Cell by appointing an Environmental Engineer, Chemist and Agriculture expert for looking after day to day activities related to Environment and irrigation field where treated effluent is used for irrigation.
25. The applicant shall provide ports in the chimney/(s) and facilities such as ladder, platform etc. for monitoring the air emissions and the same shall be open for inspection to/and for use of the Board's Staff. The chimney(s) vents attached to various sources of emission shall be designated by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
26. The industry should comply with the Hazardous and Other Wastes (M & TM) Rules, 2016 and submit the Annual Returns as per Rule 6(5) & 20(2) of Hazardous and Other Wastes (M & TM) Rules, 2016 for the preceding year April to March in Form-IV by 30th June of every year.
27. The applicant shall install a separate meter showing the consumption of energy for operation of domestic and industrial effluent treatment plants and air pollution control system. A register showing consumption of chemicals used for treatment shall be maintained.
28. The applicant shall bring minimum 33% of the available open land under green coverage/ plantation. The applicant shall submit a yearly statement by 30th September every year on available open plot area, number of trees surviving as on 31st March of the year and number of trees planted by September end.
29. The Board reserves its rights to review plans, specifications or other data relating to plant setup for the treatment of waterworks for the purification thereof & the system for the disposal of sewage or trade effluent or in connection with the grant of any consent conditions.
30. The firm shall submit to this office, the 30th day of September every year, the Environment Statement Report for the financial year ending 31st March in the prescribed FORM-V as per the provisions of Rule 14 of the Environment (Protection) (second Amendment) Rules, 1992.
31. The Applicant shall obtain necessary prior permission for providing additional control equipment with necessary specifications and operation thereof or alteration or replacement/alteration well before its life come to an end or erection of new pollution control equipment.

32. The Board reserves its rights to vary all or any of the condition in the consent, if due to any technological improvement or otherwise such variation (including the change of any control equipment, other in whole or in part is necessary).
33. The applicant shall provide facility for collection of environmental samples and samples of trade and sewage effluents, air emissions and hazardous waste to the Board staff at the terminal or designated points and shall pay to the Board for the services rendered in this behalf.

For and on behalf of the
Maharashtra Pollution Control Board.

(Ashok Shingare IAS),
Member Secretary

Photograph: Ethanol storage as per PESO norms

Photograph: Under construction Spentwash storage tank as per CREP guidelines

Photograph: Under construction CPU

Photograph: APCE- Stack with ESP

Annexure-VII: Environment Management Cell (EMC)

Particulars	Number
Managing Director	One
Distillery Manager	One
Environment officer/Chemist	One
Safety Officer	One
Evaporation plant Operator	One
Lab Chemist	Two
Operators	Two- Four