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KUMBHI - KASARI

Sahakari Sakhar Karkhana Ltd., Kuditre

Tal. : Karvir, Dist. : Kolhapur - 416204 (Maharashtra)

REF. NO.: /861

DATE: 29 JUL 2021

To,
The Regional Officer,
MoEFCC; Western Region (WCZ),
Ground Floor, East Wing,
New Secretariat Building,
Civil Lines, Nagpur - 440001

Sub. : Submission of Six Monthly Environment Compliance report for period October 2020 to March 2021 w.r.t 5000 TCD Sugar Factory, 19.5 MW Co-gen unit and 30 KLPD molasses based Distillery - **M/s Kumbhi Kasari Sahakari Sakhar Karkhana Ltd.**, Kuditre, Tal- karveer, Dist. Kolhapur. Maharashtra.

Ref. : 1. EC granted by Department of Environment, Govt. of Maharashtra; for 5000 TCD Sugar Factory and 19.5 MW Co-generation plant vide Letter No. SEAC-3012/CR-321/TC-2 dated 12th January, 2015. A Copy of EC letter is enclosed at **Enclosure - I** for ready reference.
2. EC granted by MoEFCC; New Delhi IA Division for 30 KLPD Distillery vide Letter No. ENV (NOC) 1087/141/CR-28/D-I dated 27th October 1988. A copy of EC letter is enclosed at **Enclosure - II** for ready reference.

Dear Sir,

This has reference to Environmental Clearance (EC) granted by Department of Environment, Govt. of Maharashtra and MoEFCC; New Delhi vide above-mentioned letter. The same was in respect of our 5000 TCD Sugar Factory, 19.5 MW Co-generation plant and 30 KLPD molasses based distillery by **M/s Kumbhi Kasari Sahakari Sakhar Karkhana Ltd.**, located at Kuditre, Tal- karveer, Dist. Kolhapur. Maharashtra State.

Accordingly, we are submitting a six monthly compliance report for a period of October 2020 to March 2021.

We hope the details furnished by us are in accordance with your requirements.

Thanking you,
Yours faithfully,


Managing Director

M/s Kumbhi Kasari Sahakari Sakhar Karkhana Ltd

21/3

**Pointwise Compliance towards
conditions in Environment
Clearance Granted to 30 KLPD
Distillery**

Brief Summary of the Project

1. Name of Project : **M/s. Kumbhi Kasari Sahakari Sakhar Karakhana Ltd.**
2. Clearance Letter No. & Date : ENV (NOC) 1087/141/CR-28/D-I Dated 27th October 1988 for to 30 KLPD molasses based distillery.
3. Location: District & State/UT : Dist.: Kolhapur, State.: Maharashtra
4. Address for Correspondence : M/s. Kumbhi Kasari Sahakari Sakhar Karakhana Ltd., Kuditre, Tal- karveer, Dist. Kolhapur. Maharashtra.
5. Six Monthly Compliance for Period : October 2020 to March 2021

M/s. Kumbhi Kasari Sahakari Sakhar Karakhana Ltd. is an integrated complex of 5000 TCD Sugar Factory, 19.5 MW Co-gen unit and 30 KLPD Molasses based Distillery. The project site is located at a distance of about 13.6 Km from Kolhapur. Environmental clearance for 30 KLPD Molasses based distillery is issued by MoEFCC; New Delhi IA Division vide letter no: ENV (NOC) 1087/141/CR-28/D-I Dated 27th October 1988. Refer Copy of EC Enclosed at **Enclosure - I**

Six monthly (Period October 2020 to March 2021) Compliance report for 30 KLPD Molasses based Distillery by M/s. Kumbhi Kasari Sahakari Sakhar Karakhana Ltd., Kuditre, Tal- karveer, Dist. Kolhapur. Maharashtra.

Compliance of General Conditions mentioned in Environmental Clearance (EC) letter no: ENV (NOC) 1087/141/CR-28/D-I Dated 27th October 1988 for period **October 2020 to March 2021** presented as follows -

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
A	GENERAL CONDITIONS	
1	Condition No. 1 Distillery should adopt one of the following three technologies of treatment and disposal of spent wash as mentioned below. a)Concentration and incineration process. b)Methane Bio-digester followed by composting. i)Biological Oxygen Demand (BOD) of the effluent after digestion shall not be more than 8000 mg/lit.	The spent wash to the tune of 255 M ³ /day is generated from existing distillery operations. This spent-wash is first subjected to primary treatment in Bio-digester then forwarded to composting along with pressmud and other filler material. HPDE liners of 5 micron followed by briquette lining are done for all the tanks. Also, the compost yards of 7 acres provided as per CREP Norms. Composting is done scientifically, Aero tiller machines are used

	<p>ii)Composting shall be executed in a scientific manner as will be prescribed by MPCBin its consent conditions</p> <p>c)Anaerobic open lagoon followed by composting.</p> <p>i)Lagoons shall be constructed impervious to avoid any leachate and percolations if necessary, by using polyethylene lining.</p> <p>ii)Biological Oxygen Demand (BOD) after lagooning methodfor composting shall not be more than 8000 mg/ltr.</p> <p>iii) Composting shall be executed in a scientific manner as will be prescribed by Maharashtra Pollution Control Board in its consent order</p>	<p>to mix the spentwash with press mud & filler material. Monitoring of spentwash after digester is regularly carried by industry.</p> <p>Total 5 Nos. Storage Tanks with 30 Days Storage capacities (10800 M³) are provided on site. The same has been designed as per CPCB’s technical guidelines. The details of the same are as following.</p> <table><tr><th>Sr. No</th><th>Spentwash Holding tank</th><th>Size (M)</th><th>Total volume (cum)</th></tr><tr><td>1.</td><td>Tank No. 1</td><td>40x40x1</td><td>1600</td></tr><tr><td>2.</td><td>Tank No. 2</td><td>40x40x1</td><td>1600</td></tr><tr><td>3.</td><td>Tank No. 3</td><td>60x35x3</td><td>6300</td></tr><tr><td>4.</td><td>Tank No. 4</td><td>35x20x0.75</td><td>525</td></tr><tr><td>5.</td><td>Tank No. 5</td><td>40x15x1</td><td>600</td></tr><tr><td></td><td></td><td>Total holding capacity</td><td>10800</td></tr></table> <p>Photographs of Molasses storage tank, Bio-methanation plant & composting site is enclosed at Annexure-I.</p>	Sr. No	Spentwash Holding tank	Size (M)	Total volume (cum)	1.	Tank No. 1	40x40x1	1600	2.	Tank No. 2	40x40x1	1600	3.	Tank No. 3	60x35x3	6300	4.	Tank No. 4	35x20x0.75	525	5.	Tank No. 5	40x15x1	600			Total holding capacity	10800
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5.	Tank No. 5	40x15x1	600																											
		Total holding capacity	10800																											
2	<p>Condition No. 2</p> <p>The Maharashtra Pollution Control Board may suitably modify the various terms and conditions of the consent and may impose additional conditions and as may be desired and necessary depending on the location. The distillery should strictly comply and inform the compliance of conditions before commencement of production to Maharashtra Pollution Control Board.</p>	<p>Distillery is strictly comply the terms and conditions imposed in the consent issued by Maharashtra Pollution Control Board.</p>																												
3	<p>Condition No. 3</p> <p>Tree plantation program should be undertaken as indicated in the consent letter granted by Maharashtra Pollution Control Board, on the factory land, in consultation with the Forest Department of the State Government.</p>	<p>The total plot area under Sugar, co-gen and distillery is 238210.00 M² and About is for Green Belt Development area is 78610.00 M² comprising 2505 no. of trees. Work of additional 100 no. of Coconut trees is around distillery plant in year 2021. Showing photographs for existing green belt developed and list of trees planted onsite is enclosed at Annexure –II.</p>																												

**Pointwise Compliance towards
conditions in Environment
Clearance Granted to 5000 TCD
Sugar Factory & 19.5 MW Co-gen
Plant**

Brief Summary of the Project

1. Name of Project : **M/s. Kumbhi Kasari Sahakari Sakhar Karakhana Ltd.**
2. Clearance Letter No. & : SEAC-3012/CR-32/TC-2 dated 12th January 2015 (for date 5000 TCD Sugar & 19.5 MW Co-gen plant).
3. Location: District & : Dist.: Kolhapur. State: Maharashtra.
State/UT
4. Address for : M/s. Kumbhi Kasari Sahakari Sakhar Karakhana Ltd.,
Correspondence Kuditre, Tal- karveer, Dist. Kolhapur. Maharashtra.
5. Six Monthly Compliance : October 2020 to March 2021
for Period

M/s. Kumbhi Kasari Sahakari Sakhar Karakhana Ltd. is an agro-based processing sugar factory established in the year 1960 situated at Kuditre Tal Karvir, Dist. – Kolhapur, having registration No. G/282 of 20-06-1960. The area of operation of the factory comprises of 179 villages in Karvir, Panhala, Gaganbavada, Shahu-wadi and Radhanagri talukas of Kolhapur District. The first trial season was conducted in 1963-64. First expansion was carried out in 1971-72 with the licensed capacity of 1750 TCD and second expansion is carried out in 1982-83 with the licensed capacity of 3000 TCD and third expansion is carried out in 2014-2015 with the licensed capacity of 5000 TCD.

The project site is located at a distance of about 13.6 Km from Kolhapur. Environmental Clearance for 5000 TCD Sugar Factory & 19.5 MW Co-gen plant is issued from Environment Department, Maharashtra vide its letter no SEAC-3012/CR-32/TC-2 dated on 12th January 2015. Refer Copy of EC Enclosed at **Enclosure-I**

Six monthly (Period October 2020 to March 2021) Compliance report for 5000 TCD Sugar Factory & 19.5 MW Co-gen plant by M/s. Kumbhi Kasari Sahakari Sakhar Karakhana Ltd., Kuditre, Tal- karveer, Dist. Kolhapur. Maharashtra.

Compliance of Specific and General Conditions, which are mentioned in Environmental Clearance (EC) letter SEAC-3012/CR-32/TC-2, dated 12.01.2015 for period from **October 2020 to March 2021** presented as follows-

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
A	General Conditions	
1	Condition No. 1 No additional land shall be used / acquired for any activity of the project without obtaining proper permission	Noted. No additional land used / acquired for any activity of the project without obtaining proper and prior permission to concern department.

2	Condition No. 2 For controlling fugitive natural dust, regular sprinkling of water & windshields at appropriate distances in vulnerable areas of the plant shall be ensured.	Water sprinkling is done to suppress fugitive emissions from handling of bagasse, pressmud and ash during crushing season. Further, Molasses, pressmud, ash is transported to disposal sites in covered vehicles.
3	Condition No. 3 Regular monitoring of the air quality, including SPM & SO ₂ levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit report accordingly to MPCB.	Routine monitoring of Ambient Air Quality is done for existing unit. The parameters monitored are PM ₁₀ , PM _{2.5} , SO ₂ and NO _x . Further monitoring reports are regularly submitted to MPCB. Latest ambient air quality monitoring reports is enclosed at Annexure-III .
4	Condition No. 4 Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.	A boiler of 100 TPH and 25 TPH are installed under co-gen from where steam is taken for sugar factory operations are taken. All boiler safety provisions are made and boiler is certified under Factory Act through boiler inspector regularly.
5	Condition No. 5 Proper Housekeeping programmers shall be implemented.	The compliance under above condition is being done.
6	Condition No. 6 In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.	Continuous electricity supplied by in-house 19.5 MW Co-generation plant to pollution control system. In case of power failure situation, industrial activities are immediately shut down along with pollution control system.
7	Condition No. 7 A stack of adequate height based on DG set capacity shall be provided for control and	Two no. of DG sets are provided under existing unit. Diesel @ 100 lit/Hr. is used as fuel during only power failure, DG sets are operated. Stack of 7 M height above the roof level is provided along with silencer.

	dispersion of pollutant from DG set. (If applicable)	Latest ambient air quality monitoring reports is enclosed at Annexure-III .
8	Condition No. 8 A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	Roof top rain water harvesting system is implemented on site The total water made available after rooftop is 2802.29 M ³ . This water stored in 5000 M ³ capacity holding tank, same is used to increase ground water table and also used for cleaning and miscellaneous.
9	Condition No. 9 Arrangement shall be made that effluent and storm water does not get mixed.	Separate gutters are provided for storm water collection. While Effluent is taken through closed pipe to treatment sites.
10	Condition No. 10 Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Ground water sample analysis is done by industry regularly and reports are submitted to MPCB. Latest ambient air quality monitoring reports is enclosed at Annexure-III .
11	Condition No. 11 Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	The overall noise levels in and around the plant area are kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise control generation. Noise monitoring reports for existing unit are enclosed at Annexure-III .
12	Condition No. 12 The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	
13	Condition No. 13 Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried	The total plot area is 2, 38,210 Sq. M. Out of which 10, 07,321 Sq. M. Area is built-up area under Sugar and Co-gen and 44,511 Sq. M area under distillery. Green Belt developed on 78610 Sq. M. area. Work of

	out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	additional 100 no. of Coconut trees is around distillery plant in 2021 year. Showing photographs for existing green belt developed and list of trees planted onsite is enclosed at Annexure –II.
14	Condition No. 14 Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection device shall also be installed at strategic places for early detection and warning.	Sugar factory is an agro-based industry no any hazardous chemicals are used for process also not stored on site. As far, as Sulphur used in process. It is in powder form.
15	Condition No. 15 Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	Periodical medical examinations for all employees are undertaken on regular basis. Onsite record is also maintained. Health checkup reports are enclosed at Annexure IV.
16	Condition No. 16 The Company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Fire extinguishers are installed at strategic places. Fire engine is available with the factory. Photographs of fire extinguishers provided on site is enclosed at Annexure-V.
17	Condition No. 17 The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/ treatment/ storage/ disposal of hazardous wastes.	Hazardous waste generated from sugar and co-generation unit in the form of Used/Spent Oil- 250 Kg/M, Waste/residue containing Oil- 450 Kg/Y and ETP Sludge- 10 MT/Y. Spent Oil and Waste containing Oil is burnt in boilers and ETP Sludge is dried in sludge drying beds and used as manure.
18	Condition No. 18 The company shall undertake following Waste Minimization Measures:	Minimum quantities of chemicals are used in process.

	<ul style="list-style-type: none"> • Metering of quantities of active ingredients to minimize waste. • Reuse of by- products from the process as raw materials or as raw material substitutes in other process. • Maximizing Recoveries. • Use of automated material transfer system to minimize spillage. 	
19	Condition No. 19 Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	Training and drills are conducted for employees on safety and health aspects of chemical handling. Periodical medical examinations for all employees are undertaken on regular basis. Onsite record is also maintained.
20	Condition No. 20 A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Industry is having Environmental Monitoring cell of 5-6 workers and Environmental Officer with M.Sc. (Environment) is heading the environmental cell.
21	Condition No. 21 Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.	Ash to the tune of 600 MT/Month is generated from current operations and same is given to brick manufacturers. Water sprinkling arrangements have been done to avoid fly ash particles from becoming air borne. Also, under proposed green belt plantation programme, plantation shall be done around fly ash storage yard. CPCB guidelines for storage of ash are duly being followed.
22	Condition No. 22 Separate silos will be provided for collecting and storing bottom ash and fly ash.	Fly ash generated is stored in yard. Water sprinkling arrangements have been done to avoid fly ash particles from becoming air borne. In addition, under proposed green belt plantation programme, plantation shall be done around fly ash storage yard. CPCB guidelines for storage of ash are duly being followed.

23	<p>Condition No. 23</p> <p>Separate funds shall be allocated for implementation of environmental protection measures / EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purpose and year-wise expenditure should reported to the MPCB & this department.</p>	<p>Fully complied, around Rs. 4 Crore are allotted for capital as well as operation and maintenance of pollution control equipments.</p> <table><tr><th>Sr. No.</th><th>Description</th><th>Capital Cost (Rs.) in Crore</th><th>Proposed O & M Cost (Rs.) in Crore</th></tr><tr><td>1.</td><td>Air Pollution Control - APC</td><td>2.0</td><td>0.7</td></tr><tr><td>2.</td><td>Water Pollution Control - ETP</td><td>0.5</td><td>0.3</td></tr><tr><td>3.</td><td>Noise Pollution Control</td><td>0.2</td><td>0.1</td></tr><tr><td>4.</td><td>Environmental Monitoring & Management</td><td>0.05</td><td>0.03</td></tr><tr><td>5.</td><td>Occupational Health</td><td>0.05</td><td>0.02</td></tr><tr><td>6.</td><td>Green Belt</td><td>0.01</td><td>0.025</td></tr><tr><td>7.</td><td>Others (Pl. Specify)</td><td>--</td><td>--</td></tr><tr><td></td><td>Total</td><td>2.76</td><td>1.175</td></tr></table>	Sr. No.	Description	Capital Cost (Rs.) in Crore	Proposed O & M Cost (Rs.) in Crore	1.	Air Pollution Control - APC	2.0	0.7	2.	Water Pollution Control - ETP	0.5	0.3	3.	Noise Pollution Control	0.2	0.1	4.	Environmental Monitoring & Management	0.05	0.03	5.	Occupational Health	0.05	0.02	6.	Green Belt	0.01	0.025	7.	Others (Pl. Specify)	--	--		Total	2.76	1.175
Sr. No.	Description	Capital Cost (Rs.) in Crore	Proposed O & M Cost (Rs.) in Crore																																			
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6.	Green Belt	0.01	0.025																																			
7.	Others (Pl. Specify)	--	--																																			
	Total	2.76	1.175																																			
24	<p>Condition No. 24</p> <p>The project management 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 of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.maharashtra.gov.in</p>	<p>Condition is complied. As per EIA notification within 7 days from the date of issues of the clearance letter, at least in the two local newspapers. An advertisement of accord of EC to our 5000 TCD Sugar & 19.5 MW Co-gen plant has been published in two local newspapers one is local language and English newspaper. Advertisement copy is enclosed at Annexure- VI.</p>																																				

25	<p>Condition No. 25</p> <p>Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.</p>	<p>Industry regularly submits the six monthly compliance reports to regional office Nagpur. Copy latest acknowledgment of six monthly compliance report w.r.t graded of EC for period April 2020 to September 2020 dated 17 December 2020 are enclosed at Annexure-VII.</p>
26	<p>Condition No. 26</p> <p>A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.</p>	<p>The compliance under above condition is being followed.</p>
27	<p>Condition No. 27</p> <p>The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO₂, NO_x, (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>The compliance under above condition is being followed.</p>
28	<p>Condition No. 28</p> <p>The project proponent shall also submit six monthly</p>	<p>Industry regularly submits the six monthly compliance reports to regional office Nagpur. latest</p>

	reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	of six monthly compliance report w.r.t graded of EC for period April 2020 to September 2020 dated 17 December 2020.
29	<p>Condition No. 29</p> <p>The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall be sent to the respective Regional Office of MoEF by e-mail.</p>	<p>The environmental statement for each financial year ending 31st March in Form-V will be submitted to State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, and amended subsequently. Acknowledgements of same are attached at Annexure –VII. The company will also put the status of compliance of environmental clearance conditions on its website and forward it to the Regional Offices of MoEF.</p>

Enclosure – I

महाराष्ट्र शासन

R.T.A.D.

Environment Department

क्रमांक: एम्.ए. (न००) १०८७/१४१/

पर्यावरण विभाग CR-28/D-1.

मंत्रालय, मुंबई ४०० ०३२

दिनांक: 27th October, 1988.

To,

The Managing Director,
M/s. Kumbhi-Kasari Sahakari
Sakhar Karkhana Limited,
P.O. Kuditre, Taluka-Karvir,
Dist. Kolhapur, Pin-416 204.

Sub: M/s. Kumbhi-Kasari S.S.K. Ltd.,
Environment clearance to Distillery.

.....

Sir,

I am directed to refer to your letter No. Distillery/MR/15/86-87/2525 dated 27.1.1987, on the subject mentioned above and to state that the Environment Department of the State Government has no objection from the environmental angle to permit you to manufacture of Rectified Spirit capacity 6,000 K.L./Year (Six Thousand Kilo litres per annum) located at Kuditre, Taluka: Karvir, District: Kolhapur, near to the existing sugar factory subject to the following conditions:-

1) Distillery should adopt one of the following three technologies of treatment and disposal of spent wash as mentioned below:-

a) Concentration and incineration process;

b) Methane Bio-digester followed by composting.

i) Biological oxygen demand (BOD) of the effluent after digestion shall not be more than 8000 mg/ltr.

ii) composting shall be executed in a scientific manner as will be prescribed by MPCB in its consent conditions.

c) Anaerobic open lagoon followed by composting.

i) Lagoons shall be constructed impervious to avoid any leachate and percolation, if necessary, by using polyethylene lining.

ii) Biological oxygen demand (BOD) after digestion or before composting shall not be more than 8000 mg/ltr.

..2.

18) Disposing shall be executed in a scientific manner as will be prescribed by Maharashtra Pollution Control Board, in its consent order.

2) The Maharashtra Pollution Control Board may suitably modify the various terms and conditions of the consent and may impose additional conditions and as may be desired and necessary depending on the location. The Distillery should strictly comply and inform the compliance of conditions before commencement of production to Maharashtra Pollution Control Board.

3) Tree plantation programme should be undertaken as indicated in the consent letter granted by Maharashtra Pollution Control Board, on the factory land, in consultation with the Forest Department of the State Government.

The above permission is without prejudice to any other permission as required under any of the laws, bye-laws or regulations in force and that the Government may impose any additional conditions from time to time for control of pollution, if necessary.

Yours faithfully,

M. G. Patil

(M. G. Patil)

Deputy Secretary to Government.

Distillery production started from 6/2/1993

[Signature]

Distillery Incharge
Kumbhi Keshri Sahakari Sakhar
Karkhana Ltd., Kuditre
Tal. Karveer, Dist. Kolhapur.

Enclosure – II

Government of Maharashtra

SEAC-3012/ CR-321/TC-2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annex,
Mumbai- 400 032.
Dated: 12th January, 2015

To,
Mr. Vishwanath Shinde.
Kuditre, Tal: Karveer,
Dist: Kolhapur

Subject: Environment clearance for proposed Modernization & expansion of sugar & Co-generation Sugar Plant: 3000 TCD to 5000 TCD Co-generation: 2 MW to 19.5 MW at village Kuditre, Tal: Karveer, Dist: Kolhapur

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 78th meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 80th meeting.

2. It is noted that the proposal is considered by SEAC-I under screening category 1 (d) & 5(j) B1 as per EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Name of the Project	Kumbhi Kasari S. S. K. I. d.,
Project Proponent	Name: Mr. Vishwanath Shinde. Address: Kuditre, Tal: Karveer, Dist: Kolhapur Telephone number: 0231-2444222 to 2444226 Mobile number: 09422047387 Email ID: info@kumbhisugar.com
Consultant	SAITECH Research and Development Organisation.
New Project / Expansion in existing project/ Modernization/Diversification in exiting project	Modernization & expansion of sugar & Co-generation units Sugar Plant: 3000 TCD to 5000 TCD Co-generation : 2 MW to 19.5 MW
Activity schedule in the EIA Notification	'B' category under EIA notification activity schedule of 1(d) for Co-generation power plant and 5 (j) for sugar Industry
Area Details	Total Plot area – 60 Hectors. Total Built up area – 33746 m2

TOR given by SEAC?	In the meeting held on 25/03/2014.
Estimated capital cost	Total Project Cost: Rs.123.84 Cr.
Location details of the project :	Latitude:- 16° 36' 47.99"N Longitude:- 74° 22' 27.97"E

	Location: - A/P: Kuditre, Tal: Karveer, Dist: Kolhapur Elevation above Mean Sea Level (metres):- 900 M				
Raw materials (including process chemicals, catalysts, & additives).	List of raw materials to be used	Physical and chemical nature of raw material	Quantity (tonnes/ Month) Full production capacity	Source of materials	Means of transportation (source to storage site) with justification
	Sugar cane		1,50,000		Truck
	Sulphur		75		Truck
	Lime		225		Truck
	Caustic soda		4.0		Truck
Production details	Sugar		19,050		
	Electricity		19.5 MW/hr		
	Molasses		5,250		
	Baggase		43,875		
	Pressmud		5,550		
Process details /manufacturing details	<p>SUGAR MANUFACTURING PROCESS</p> <p>The Sugar industry is an agro based industry. In sugar manufacturing process various stages are occurred during process. Firstly sugar cane is brought to factory site by trucks, tractors & bullock carts. After the weighment of cane it is unloaded by cane unloader on feeder table & dump in to cane carrier. Preparation of cane is done in to fine pieces by cane kicker, leveler & fiberizer. Prepared cane is passed through mill tandem, from which juice is extracted up to 95 % with addition of water 25% on cane, residue of prepared cane is called bagasse used as a fuel for boiler.</p> <p>Extracted juice from mill tandem is called raw juice send for further process. Weighment of raw juice is done by on line mass flow meter, weighed juice is heated up to 70 °C to 75 °C. after heating juice is treated with milk of lime Ca(OH)_2 & SO_2 gas to remove the non sugars & coloring matter. This Sulphur juice is further heated of to 100 °C to 105 °C & Sulphur juice transfer to clarifier for settling of impurities like suspended & colloidal. From clarifier clear juice & muddy juice are get separated, muddy juice send to vacuum filter in which further juice recovered mud.</p> <p>Obtained clear juice from clarifier having brix 15 ° to 17 ° which rise up to 60 ° brix in to evaporator set, this concentrated juice is called syrup. Obtained syrup is bleached by SO_2 gas is called sulphured syrup, this transferred to pan floor.</p> <p>On pan section three massecuite boiling system is followed A-massecuite, B- massecuite & C- massecuite. In the pan sulphur syrup is boiled and a mixture of crystals and mother liquor called as massecuite prepared. This massecuite is stored in Crystallizer. Then it send to centrifugal section through pug mill. At centrifugal section sugar crystals and molasses are</p>				


	<p>separated. Final molasses send to steel tank for storage and other molasses is re-used in process. Sugar crystal are in wet condition dried on hopper with Hot & Cold air blowers. Dried sugar crystals separated grade wise from sugar grader & graded sugar filled in 'A' Twill Gunny bags & then weighed, labled and stitched and then send to sugar godown for storage.</p> <p>b) CO-GENERATION</p> <p>Bagasse would be utilised as a primary fuel for the boiler. The boiler would have steam generating capacity of two 25 TPH & 100 TPH at 21 kg/cm² & 87 kg/cm² pressure & 450°C temperature. The combustion system of boiler is dumping grate with spreader stoker type furnace suitable for firing bagasse at the full rating. The boiler would also supplied with super heater, air heater, and economizer. Boiler heating surface shall be sized to maintain the design conditions throughout the sugar process season without shutting down to clean the water side of the tube.</p> <p>The steam from the boiler is expanded in a single condensating turbine. The turbine will have provision for steam extraction points. The extracted steam from the extraction points would be used to supply process steam to sugar mill and to the deareator at appropriate pressure. The extraction steam system would be designed to supply steam for sugar process and to run the turbines.</p> <p>Fire protection and detection system will be provided in line with the requirement of Tariff Advisory Committee (TAC) and to protect the equipment from fire hazards. This will consist of hydrant systems, automatic and manual high velocity water spray system, medium velocity water spray system, foam system and portable fire extinguishers suitable for the respective areas.</p> <p>Power Evacuation</p> <p>Power from the co-generation plant will be evacuated at 110 kV to the MSEDCL substation through a double circuit transmission line.</p>
Rain Water Harvesting(RWH)	<p>Level of the Ground water table: 4 m</p> <p>Budgetary allocation (Capital cost and O&M cost)</p> <p>Capital Cost : 40 Lakhs O & M Cost : 10 Lakhs</p>
Total Water Requirement	<p>Total water requirement:</p> <p>Fresh water (CMD) : 4800 one time & daily 575 m³/day</p> <p>Recycled water (CMD) : 3685 m³/day</p> <p>Use of the water:</p> <p>Process (CMD) : 370 m³/day.</p> <p>Cooling water (CMD) : 100 m³/day.</p> <p>DM Water (CMD): 125 m³/day.</p> <p>Drinking (CMD) : 75 m³/day.</p> <p>Green belt (CMD) : Treated Water.</p>
Storm water drainage	Natural water drainage pattern : Yes
Sewage generation and treatment	<p>Amount of sewage generation (CMD) : 60 m³/day</p> <p>Proposed treatment for the sewage : Septic Tanks followed by anaerobic filters.</p>

		Capital Cost : 1.00 Lakhs O & M Cost : 0.10 Lakhs				
Effluent characteristic	Sr no	Parameters (ph,bod,cod,havy metal.ect	Inlet effluent characteristic	Outlet effluent 4mission4ristic	Effluent discharge standard (CPCB/MPCB)	
	1	PH	5.0– 5.5	7.0-8.0	5.5-9.0	
	2	TSS	200	<100	<100	
	3	COD	2000	<250	<250	
	4	BOD	1000	<30	<30	
	5	Oil Grease	15	Nil	<10	
	6	TDS	2000	<2100	<2100	
	7	Chloride	300	< 600	< 600	
	8	Sulphate	450	< 1000	< 1000	
ETP details		<input type="checkbox"/> Amount of effluent generation (CMD) : 360 M ³ /Day <input type="checkbox"/> Capacity of the ETP (CMD) :- 1500 m ³ /day Amount of treated effluent recycled (CMD): 3685 m ³ /day for green belt				
Note on ETP technology to be used		Activated Sludge Process				
Disposal of the ETP sludge (If applicable)		Used as manure				
Solid waste Management	Sr no	Source	Type	Quantity	Method of Disposal	
	1	Spent Oil	Inorganic	450 kg/year	Burnt along with bagasse in boilers	
	2	ETP	Organic	10MT/M	Used as manure	
Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _x , CO, etc.)	Sr No	Pollutant	Source of 4mission	Emmision Rate (Kg/hr)	Concentration in flue gas (g/m3)	
	1	SPM	Boiler	36	0.1	
	2	SO ₂	Boiler	0.012	0.000071	
	3	NO _x	Boiler	0.011	0.000065	
Stack emission Details:	Plant section & units	Stack no	Height from ground level (M)	Internal diameter (top)(m)	Emission rate (kg/hr)	Temp.of exhaust
	Process & Co-gen	1 & 2	75 & 30	2.1 & 2.8	36	145 & 100
	Distillery	1	30	0.9	0.9	135
	D.G 700 KVA 2 Nos.	1	7 mtr.abov e roof	0.6	-	-

Emission Standard	Pollutants (SPM, SO ₂ , etc)	Emission standard limit (mg/Nm ³)	Proposed limit (mg/Nm ³)	MPCB consent (mg/Nm ³)			
	SPM	100	150	150			
Ambient Air Quality Data	Pollutant	Permissible standard	Proposed concentration (in ug/m ³)	Remarks			
	SPM	500	250				
	RPM	150	100				
Details of Fuel to be used:	Sr no	Fuel	Daily Consumption (TPD/KLD)		Calorific value (kcal/kg)	% ash	% Sulphur
			Existing	Proposed			
	1	Bagasse	56.32 MT/Hr	52.76 MT/Hr	22000	1	Traces
	<input type="checkbox"/> Source of fuel: own						
Energy	Power supply: <input type="checkbox"/> Existing power requirement: 4 MW Proposed power requirement: 6 MW DG sets: Number and capacity DG sets to be used Proposed 700 KVA 2 nos. Additional Fuels - HSD 90 Lit / hr						
Green Belt Development	<input type="checkbox"/> Green belt area (Sq. m.): 236115 Sq. m Total Green Belt Area: 236115 Sq. m <input type="checkbox"/> Number and species of trees to be planted :- 15000 Nos.						
Details of Pollution Control Systems	Sr no		pollution control system				
	1	Air	ESP & Wet Scrubber				
	2	Water	ETP				
	3	Noise			Adequate measures for control of noise levels will be implemented to maintain noise levels.		
	4	Solid waste			SDB		
Environmental Management plan plan O&M cost (With break up) : Budgetary Allocation	<input type="checkbox"/> Capital cost (With break up) : <input type="checkbox"/> O&M cost (With break up) :						
	Sr no		Recurring Cost per annum Rs. lakh.		Capital Cost Rs. lakhs		
	1	Air Pollution Control	25.00		250.00		
	2	Septic tanks & Soak Pits	0.25		3.00		
	3	Waste water Treatment	5.00		90.00		
	4	Environment	5.00		2.0		

- (xiv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- (xv) Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.
- (xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xviii) The company shall undertake following Waste Minimization Measures :
 - Metering of quantities of active ingredients to minimize waste.
 - Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
 - Maximizing Recoveries.
 - Use of automated material transfer system to minimize spillage.
- (xix) Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- (xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxi) Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash.
- (xxii) Separate silos will be provided for collecting and storing bottom ash and fly ash.
- (xxiii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department
- (xxiv) The project management 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 clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <http://ec.maharashtra.gov.in>
- (xxv) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.
- (xxvi) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- (xxvii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- (xxviii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both

- in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.
- (xxix) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
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. The Environment department reserves the right 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.
 6. **Validity of Environment Clearance:** The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.
 7. 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.
 8. 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.
 9. Any appeal against this environmental 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.


(Ajoy Mehta)
Principal Secretary,
Environment department &
MS, SEIAA

Copy to:

1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.

2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune – 411014. .
3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
6. Regional Office, MPCB, Kolhapur.
7. Collector, Kolhapur
8. Commissioner, Municipal Corporation, Kolhapur
9. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
10. Select file (TC-3)

(EC uploaded on 20/02/2015)

Annexure –I

**Photographs of Composting Site and
Molasses Storage Tanks**

COMPOSTING SITE OF KUMBHI KASARI SSK LTD., KUDITRE



MOLASSES STORAGE TANKS AT KUMBHI KASARI SSK LTD., KUDITRE



Annexure –II

Photographs of Existing Green Belt

PHOTOGRAPHS OF EXISTING GREEN BELT AT KUMBHI KASARI SSK LTD., KUDITRE



PHOTOGRAPHS OF EXISTING GREEN BELT AT KUMBHI KASARI SSK LTD., KUDITRE



Annexure – III

Monitoring Reports



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Format No.:EELRC/F/WAR/84

DRINKING WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-127/12/2019 -20
M/s. Kumbhi Kasari Sahakari Sakhar Karkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2019

SAMPLING DETAILS

01) Location of Sampling	Bore well water (Compost Yard)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	10/12/2019
07) Time of Sampling	13:10PM
08) Date of Received in lab	11/12/2019
09) Analysis Start Date	11/12/2019

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.0	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.58	<1	NTU	IS : 3025 (Part 10):1984
3.	TDS	324.0	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.021	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.59	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness	162.3	<200	mg/ltr	IS : 3025 (Part 21):1983
8.	Total Alkalinity	137.5	<200	mg/ltr	IS : 3025 (Part 13):1964
9.	Sulphate	94.2	<200	mg/ltr	IS : 3025 (Part 24):1986
10.	Nitrate	0.89	<45	mg/ltr	IS : 3025 (Part 34):1988
11.	Fluoride	BDL	<1.5	mg/ltr	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/ltr	IS : 3025 (Part 26):1986
13.	Chloride	95.54	<250	mg/ltr	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	63.3	<75	mg/ltr	IS : 3025 (Part 40):1991
15.	Magnesium (as Mg)	24.12	<30	mg/ltr	IS : 3025 (Part 46)
16.	Chemical Oxygen Demand	16.24	-	mg/ltr	IS:3025 (Part 58) 2006
17.	Biochemical Oxygen Demand, BOD (3 days @27°C)	5.0	-	mg/ltr	IS 3025 (Part 44) : 1993
18.	Sodium as Na	53.5	-	mg/ltr	IS:3025 (Part 45) 1993
19.	Potassium as K	2.8	-	mg/ltr	IS:3025 (Part 45) 1993

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Dhawalgiri Co-op, Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thana Naka, Panvel - 410 206
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Gut No. 1252, Tuljai Nagar
Behind Gharkul Building
No. C-11, Spine Road
Newale Wasti Chikhali
Pune - 411062
09767838931/08668441453



Accreditation & Approvals

ISO 9001: 2015
EMS 14001 : 2015
OHSAS 45001: 2018
NABL & MOEF & CC
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By Govt. of India

Website : www.eelab.in/ eelab@excellentenviro.com



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Microbiological Parameter					
20.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
21.	<i>E.coli.</i>	Absent	Absent	per/100ml	IS 1622:1981

UOM – Unit of Measurement.

“The results pertain to tested portion of sample”

Remark – All above parameter complying with required limit as per IS 10500: 2012 Standards.

Prepared By

Mr. Avinash Deshmukh
(Lab Chemist)

Checked By

Ms. Pinku Sontakke
(Lab Chemist)

Authorized Signatory

Mr. Subhash Mudgadkar
(Business Head)



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Format No. : EELRC/F/AMR/84

AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-925/12/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	Near Main Gate
02) Sampling Procedure	As Per IS:5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	11: 00AM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020
08) Ambient Temperature	25°C
09) Dry Bulb Temperature	25°C
10) Wet Bulb Temperature	20°C
11) Relative Humidity	49% RH

RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	µg/m ³	66.12	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter (PM _{2.5})	µg/m ³	37.50	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO ₂)	µg/m ³	19.9	≤ 80	IS: 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	29.18	≤ 80	IS: 5182(Part 6):2006
5	Ammonia (NH ₃)	µg/m ³	27.56	≤ 400	Method 401 Air sampling and Analysis 3 rd Edition
6	Carbon Monoxide (CO)	mg/m ³	0.060	≤ 04	GC FID Methanizer Method
7	Ozone (O ₃)	µg/m ³	9.4	≤ 180	Method 411 Air sampling and Analysis 3 rd Edition
8	Lead (Pb)	µg/m ³	0.09	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m ³	0.18	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m ³	0.014	≤ 20	APHA 3120 B
11	Benzene (C ₆ H ₆)	µg/m ³	0.050	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	≤ 01	IS: 5182 Part 12:2004

UOM – Unit of Measurement

BDL: Below Detectable Limit

Remark: - All above results are within National Ambient Air Quality Standards, Notification dtd November 18, 2009.

Note: "The results pertain to tested portion of sample"

Prepared By

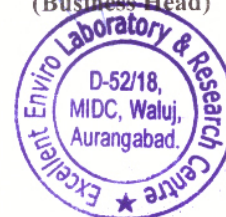
Checked By

Authorized Signatory

Ms. Pinku Sontakke
(Lab Chemist)

Dr. Pournima Thete
(Lab Chemist)

Mr. Subhash Mudgadkar
(Business Head)



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- ❖ OHSAS 45001: 2018
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Format No.:EELRC/F/AMR/84

AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-926/12/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	Near Cane Yard
02) Sampling Procedure	As Per IS : 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	11: 10AM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020
08) Ambient Temperature	25°C
09) Dry Bulb Temperature	25°C
10) Wet Bulb Temperature	20°C
11) Relative Humidity	49% RH

RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	µg/m ³	64.30	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter (PM _{2.5})	µg/m ³	39.45	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO ₂)	µg/m ³	20.52	≤ 80	IS: 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	24.10	≤ 80	IS: 5182(Part 6):2006
5	Ammonia (NH ₃)	µg/m ³	24.4	≤ 400	Method 401 Air sampling and Analysis 3 rd Edition
6	Carbon Monoxide (CO)	mg/m ³	0.09	≤ 04	GC FID Methanizer Method
7	Ozone (O ₃)	µg/m ³	12.31	≤ 180	Method 411 Air sampling and Analysis 3 rd Edition
8	Lead (Pb)	µg/m ³	0.03	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m ³	0.27	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m ³	0.05	≤ 20	APHA 3120 B
11	Benzene (C ₆ H ₆)	µg/m ³	0.02	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	≤ 01	IS: 5182 Part 12:2004

UOM – Unit of Measurement

BDL: Below Detectable Limit

Remark: - All above results are within National Ambient Air Quality Standards, Notification dtd November 18, 2009.

Note: "The results pertain to tested portion of sample"

Prepared By

Checked By

Authorized Signatory

Ms. Pinku Sontakke
(Lab Chemist)

Dr. Pournima Thete
(Lab Chemist)

Mr. Subhash Mudgalkar
(Business Head)



AN "ENVIRONMENTAL LABORATORY"

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Accreditation & Approvals

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Excellent Enviro Laboratory & Research Center

Format No. : EELRC/F/NMR/84

AMBIENT NOISE MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/N-927 to 928/12/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	As Listed Below in the Table
02) Sampling Procedure	As Per IS: 4758
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	11:25 AM


RESULTS

Sr. No.	Test Location	I.D. No.	UOM	Day Time	Night Time	MPCB Limit
1	Near Main Gate	N-927	dB (A)	66.9	57.8	During Day time= 75 dB (A) During Night Time= 70dB(A)
2	Near Cane Yard	N-928	dB (A)	62.30	54.22	


UOM – Unit of Measurement

Remark: The Noise Level is within MPCB normal Limits.

Prepared By

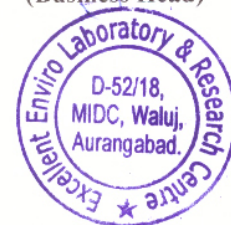

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Checked By


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(Lab Chemist)

Authorized Signatory


Mr. Subhash Mudgadkar
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Format No.: EELRC/F/SMR/84

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-929/12/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	Boiler-1 (100 MT Capacity, 87 kg Boiler Pressure)
02) Sampling Procedure	IS:11255
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	11:40AM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020
08) Material of Stack	RCC
09) Stack Height	80 meter
10) Type of Stack	Round
11) Dimension of Stack	2.4 meter
12) Flue Gas Temperature	347 ⁰ K
13) Differential Pressure	3.7mmWG
14) Velocity	6.79m/sec
15) Stack Area	4.9062m ²
16) Gas volume	95257.39 Nm ³ /hr
17) Fuel Used	Diesel

RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm ³	70.10	≤ 150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	3.22	-
3	Sulphur Dioxide (SO ₂)	Kg/day	4.55	-
4	Oxides of Nitrogen	mg/Nm ³	13.8	-

UOM – Unit of Measurement

Remark: A total particulate matter results are within MPCB Limits.

Note: "The results pertain to tested portion of sample"

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Chemist)

Authorized Signatory

Mr. Subhash Mudgadkar
(Business Head)



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Format No.:EELRC/F/SMR/84

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-930/12/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	Boiler-2 (25MT Capacity, 21 Kg Boiler Pressure)
02) Sampling Procedure	IS:11255
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	12:00PM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020
08) Material of Stack	RCC
09) Stack Height	30 meter
10) Type of Stack	Round
11) Dimension of Stack	3.0 meter
12) Flue Gas Temperature	338 ⁰ K
13) Differential Pressure	3.4mmWG
14) Velocity	6.43m/sec
15) Stack Area	7.065 m ²
16) Gas volume	144356.71Nm ³ /hr
17) Fuel Used	Diesel

RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm ³	65.29	≤ 150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	3.15	-
3	Sulphur Dioxide (SO ₂)	Kg/day	12.40	-
4	Oxides of Nitrogen	mg/Nm ³	16.21	-

UOM – Unit of Measurement

Remark: Total particulate matter results are within MPCB Limits.

Note: "The results pertain to tested portion of sample"

Prepared By

Ms. Pinku Sontakke
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Checked By

Dr. Pournima Thete
(Lab Chemist)

Authorized Signatory

Mr. Subhash Madgadkar
(Business Head)



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WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-931/12/2020 -21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	ETP Inlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	12:35PM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.80	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	7789.14	IS 3025 (Part 58): 2006
3	Suspended Solids (SS)	mg/ltr	1710.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	6322.7	APHA 2540 - C
5	Oil & Grease O&G)	mg/ltr	6.19	IS 3025 (Part 39): 1991
6	Chlorides (as Cl)	mg/ltr	3160.4	APHA 4500 –Cl ⁻ B.
7	Sulphates (as SO ₄)	mg/ltr	1050.8	APHA 4500 – SO ₄ ²⁻ E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	1920.0	IS 3025 (Part 44) : 1993

UOM – Unit of Measurement

Note: "The results pertain to tested portion of sample"

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Chemist)

Authorized Signatory

Mr. Subhash Mudgadkar
(Business Head)



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WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-932/12/2020 -21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Tal-kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	ETP Outlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	12:45PM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	pH	-	7.3	5.5 to 9.0	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	226.5	250.00	IS 3025 (Part 58): 2006
3	Suspended Solids (SS)	mg/ltr	59.10	100.00	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1328.0	2100.00	APHA 2540 - C
5	Oil & Grease (O&G)	mg/ltr	< 1	10.00	IS 3025 (Part 39): 1991
6	Chlorides (as Cl)	mg/ltr	450.7	600.00	APHA 4500 – Cl ⁻ B.
7	Sulphates (as SO ₄)	mg/ltr	681.14	1000.00	APHA 4500 – SO ₄ ²⁻ E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	69.00	100.00	IS 3025 (Part 44) : 1993

UOM – Unit of Measurement

Remark – All above parameter results are within MPCB limit.

Note: "The results pertain to tested portion of sample"

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Chemist)

Authorized Signatory

Mr. Subhash Mudgadkar
(Business Head)



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COMPOST SAMPLE ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/SO-933/12/2020 -21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	Compost
02) Sampling Procedure	--
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	14:25 PM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020

RESULTS

Sr. No.	Parameter	Result	UOM
1.	pH (1:5 Suspension)	7.9	---
2.	Moisture	39.10	%
3.	Colour	Blackish Brown	--
4.	Odour	Absence of Foul Smell	--
5.	Bulk Density	0.72	g/cm ³
6.	Total Organic Carbon	24.50	%
7.	Total Nitrogen (as N)	2.10	%
8.	Total Phosphate (as P ₂ O ₅)	4.9	%
9.	Potash (as K ₂ O)	2.9	%
10.	C:N Ratio	15.8	--
11.	Particle Size	80% pass through 4.0 mm Sieve	%

UOM – Unit of Measurement

Prepared By

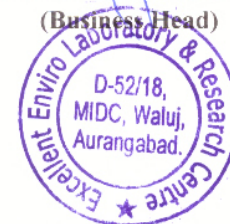
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Checked By

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(Lab Chemist)

Authorized Signatory

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WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-934/12/2020 -21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	Spent Wash
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	14:25 PM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	6.40	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	142060.5	IS 3025 (Part 58): 2006
3	Total Solids (TS)	mg/ltr	15800.0	APHA 2540 - D
4	Potassium (as K)	%	3.40	IS 3025 (Part 2)
5	Chlorides (as Cl)	mg/ltr	6740.2	APHA 4500 – Cl ⁻ B.
6	Sulphates (as SO ₄)	mg/ltr	2370.9	APHA 4500 – SO ₄ ²⁻ E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	38230.0	IS 3025 (Part 44) : 1993

UOM – Unit of Measurement

Note: "The results pertain to tested portion of sample"

Prepared By

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Checked By

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(Lab Chemist)

Authorized Signatory

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WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-935/12/2020 -21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	Spray Pond
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	14:40PM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	6.80	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	207.8	IS 3025 (Part 58): 2006
3	Suspended Solids (SS)	mg/ltr	52.7	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1350.0	APHA 2540 - C
5	Oil & Grease (O&G)	mg/ltr	BDL	IS 3025 (Part 39): 1991
6	Chlorides (as Cl)	mg/ltr	280.5	APHA 4500 – Cl ⁻ B.
7	Sulphates (as SO ₄)	mg/ltr	414.19	APHA 4500 – SO ₄ ²⁻ E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	48.7	IS 3025 (Part 44) : 1993

UOM – Unit of Measurement

Note: "The results pertain to tested portion of sample"

Prepared By

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Checked By

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WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-936/12/2020 -21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	17/12/2020

SAMPLING DETAILS

01) Location of Sampling	Digester Outlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	10/12/2020
05) Time of Sampling	14:50PM
06) Date of Sample Received in Lab	11/12/2020
07) Analysis Start Date	11/12/2020

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.80	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	27340.9	IS 3025 (Part 58): 2006
3	Total Solids (TS)	mg/ltr	8540.6	APHA 2540 - D
4	Potassium (as K)	%	2.0	IS 3025 (Part 2)
5	Chlorides (as Cl)	mg/ltr	4360.5	APHA 4500 – Cl ⁻ B.
6	Sulphates (as SO ₄)	mg/ltr	1480.0	APHA 4500 – SO ₄ ²⁻ E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	6340.0	IS 3025 (Part 44):1993

UOM – Unit of Measurement

Note: "The results pertain to tested portion of sample"

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Chemist)

Authorized Signatory

Mr. Subhash Mudgadkar
(Business Head)



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Excellent Enviro Laboratory & Research Center

Format No. EELRC/LAB/F/069-7.8

AMBIENT NOISE MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/N-57/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	As Listed Below in the Table	
02) Sampling Procedure	IS 4758	
03) Sample Collected By	M/s. Global Enviro Tech Services	
04) Date of Sampling	16/02/2021 to 17/02/2021	
05) Time of Sampling & Sampling Duration	From 11:30 AM of 16/02/2021 to 11:30 PM of 17/02/2021 (24 hrs)	
06) Sampling Duration	24 hrs. Day & Night	
07) Instrument Details	Serial No.	4201
	Make	LUTRON
	Calibration Date	Calibration On: 20/02/2020 Due On: 19/02/2021

RESULTS

Sr. No.	Test Location	I.D. No.	UOM	Day Time	Night Time	MPCB Limit
1	Near Main Gate	N-39	dB (A)	68.20	59.9	During Day time= 75 dB(A) During Night Time= 70dB(A)
2	Near Cane Yard	N-40	dB (A)	65.36	55.1	

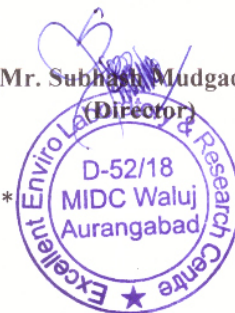
Remark: The Noise Level is within MPCB normal Limits.

Authorized Signatory

(Mr. Subhash Mudgadkar)



(Director)

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



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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-58/03/2020-21
M/s. Kumbhi Kasari Sahkari SakharKarkhana, Tal-Kaveer ,kuditre,Tal-kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-01(Jayvant Shinde)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	13:00 PM
08) Date of Sample Received in lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.0	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.79	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids(TDS)	466.0	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.86	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	8.6	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness(as CaCO ₃)	182.2	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	149.8	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	66.7	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	3.5	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.70	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	BDL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	125.0	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	29.7	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	18.4	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	<i>E.coli.</i>	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM -Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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

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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-59/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Tal-kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-02 (Dattatray Patil)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	13:15 PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.30	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	1.06	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids (TDS)	410	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.89	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.4	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness(as CaCO ₃)	166	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	152	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	69.10	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	4.1	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.79	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	144.0	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	31.4	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	15.1	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	E.coli.	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM -Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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

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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-60/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Tal-kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-03 (Umesh Hande)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	13:20 PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.46	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.64	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids (TDS)	340	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.41	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.8	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness(as CaCO ₃)	191.6	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	152.1	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	62	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	4.5	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.72	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	130	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	25.9	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	17.6	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	E.coli.	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM -Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-61/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Tal-kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-04 (Krishnath Buva)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	13:30 PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.10	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.89	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids(TDS)	467.0	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.45	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.2	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness(as CaCO ₃)	162.5	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	146.5	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	58.12	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	2.15	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.67	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	112.0	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	53.8	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	16.1	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	<i>E.coli.</i>	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM -Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)

(Director)

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

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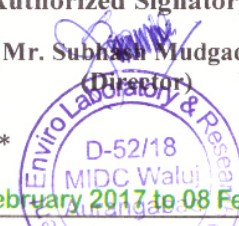
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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-62/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Tal-kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-05(Harijan)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	13:40 PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.4	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.83	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids (TDS)	390.0	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.95	--	μS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.5	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness (as CaCO ₃)	180.8	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	159.0	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	50.0	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	4.9	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.77	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	128.0	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	31.5	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	19.2	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	E.coli.	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM -Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note: - "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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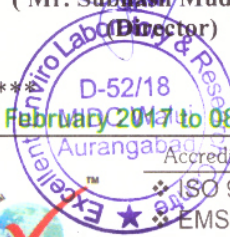
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AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-63/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra- 416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

SAMPLING DETAILS

01) Location of Sampling	Near Cane Yard	
02) Sampling Procedure	IS 5182 Part 5	
03)Sample Volume	SO ₂ : 30 ml×1 no. (Plastic Bottle), NO ₂ : 30 ml×1 no.(Plastic Bottle), PM ₁₀ : Filter Paper: 1×1no, PM _{2.5} : Filter Paper: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Global Enviro Tech Services	
06) Date of Sampling	16/02/2021to 17/02/2021	
07) Time of Sampling & Sampling Duration	From 10:50 AM of 16/02/2021 to 10:50 AM of17/02/2021(24 hrs)	
08) Date of Sample Received in Lab	17/02/2021	
09) Analysis Start Date	18/02/2021	
10) Ambient Temperature	28 ⁰ C	
11) Dry Bulb Temperature	27 ⁰ C	
12) Wet Bulb Temperature	26 ⁰ C	
13) Relative Humidity	42%RH	
14) Instrument Details	Make/Model No.	POLLTECH /PRM -DCAF 2.5/10μ
	Serial No.	0418
	Calibration Date	Calibration on:22/09/2020, Due On:21/09/2021

RESULTS

Sr. No	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	µg/m ³	66.70	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter (PM _{2.5})	µg/m ³	38.64	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO ₂)	µg/m ³	20.04	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	25.8	≤ 80	IS 5182(Part 6):2006
5	Ammonia (NH ₃)	µg/m ³	24.6	≤ 400	Method 401 Air sampling and Analysis 3 rd Edition
6	Carbon Monoxide (CO)	mg/m ³	0.08	≤ 04	GC FID Methanizer Method
7	Ozone (O ₃)	µg/m ³	12.3	≤ 180	Method 411 Air sampling and Analysis 3 rd Edition
8	Lead (Pb)	µg/m ³	0.06	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m ³	0.75	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m ³	0.10	≤ 20	APHA 3120 B
11	Benzene (C ₆ H ₆)	µg/m ³	0.8	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/ m ³	BDL	≤ 01	IS: 5182 Part 12:2004

UOM – Unit of Measurement

Remark: - All above results are within National Ambient Air Quality Standards Notification dtd November 18, 2009.

Note- "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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

AN "ENVIRONMENTAL LABORATORY"

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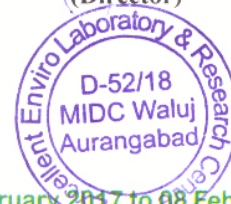
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AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-64/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra- 416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

SAMPLING DETAILS

01) Location of Sampling	Near Main Gate	
02) Sampling Procedure	IS 5182 Part 5	
03)Sample Volume	SO ₂ : 30 ml×1 no. (Plastic Bottle), NO ₂ : 30 ml×1 no.(Plastic Bottle), PM ₁₀ : Filter Paper: 1×1no, PM _{2.5} : Filter Paper: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Global Enviro Tech Services	
06) Date of Sampling	16/02/2021to 17/02/2021	
07) Time of Sampling & Sampling Duration	From 11:00 AM of 16/02/2021 to 11:00 AM of17/02/2021(24 hrs)	
08) Date of Sample Received in Lab	17/02/2021	
09) Analysis Start Date	18/02/2021	
10) Ambient Temperature	28 ⁰ C	
11) Dry Bulb Temperature	27 ⁰ C	
12) Wet Bulb Temperature	26 ⁰ C	
13) Relative Humidity	42%RH	
14) Instrument Details	Make/Model No.	POLLTECH /PRM -DCAF 2.5/10μ
	Serial No.	0418
	Calibration Date	Calibration on:22/09/2020, Due On:21/09/2021

RESULTS

Sr. No	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	µg/m ³	70.2	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter (PM _{2.5})	µg/m ³	41.9	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO ₂)	µg/m ³	28.04	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	23.6	≤ 80	IS 5182(Part 6):2006
5	Ammonia (NH ₃)	µg/m ³	27	≤ 400	Method 401 Air sampling and Analysis 3 rd Edition
6	Carbon Monoxide (CO)	mg/m ³	0.08	≤ 04	GC FID Methanizer Method
7	Ozone (O ₃)	µg/m ³	12.3	≤ 180	Method 411 Air sampling and Analysis 3 rd Edition
8	Lead (Pb)	µg/m ³	0.05	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m ³	0.75	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m ³	0.19	≤ 20	APHA 3120 B
11	Benzene (C ₆ H ₆)	µg/m ³	0.067	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/ m ³	BDL	≤ 01	IS: 5182 Part 12:2004

UOM – Unit of Measurement

Remark: - All above results are within National Ambient Air Quality Standards Notification dtd November 18, 2009.

Note- "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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

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COMPOST ANALYSIS REPORT

Format No. EELRC/LAB/F/069-7.8

Client's Name & Address	Sample Code	EELRC/ABD/SO-65/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Sample Location	Compost Site Well Water
	Container Details	Plastic can 2 Lit
	Sample Collected By	M/s. Global Enviro Tech Services
	Date of Sampling	16/02/2021
	Date of Sample receipt	24/02/2021
	Start Date of Analysis	17/02/2021
	End Date of Analysis	18/02/2021

RESULTS

Sr. No.	Parameters	Unit	Results	Test Methods
1	PH	-	7.38	IS:2720 (Part-26)-1987
2	Moisture Content	%	4.0	IS:2720(Part-2)-2010
3	Colour	--	Blackish Brown	-
4	Odour	--	Absence of Foul Smell	-
5	Bulk Density	g/m ³	0.81	As per Quality Test procedure based on Manual of Soil Testing in India, Department of Agriculture & Corporation, Ministry of Agriculture, GoI, 2011
6	Total Organic Carbon	%	25.05	IS:2720 (Part-22)-1972
7	Total Nitrogen (as N)	mg/ltr	5.23	IS 14684 (1999)
8	Total Phosphate (as P ₂ O ₅)	mg/ltr	5.22	As per Quality Test procedure(ICP)
9	Potash (as K ₂ O)	%	4.19	-
10	C:N Ratio	-	17.4	-

UOM – Unit of Measurement

Note: –“The results pertain to tested portion of sample”

Authorized Signatory

(Mr. Subhash Mudgalkar)

(Director)

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WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-66/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	ETP Inlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr×1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	12:10 PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	Testing Method
1	pH	-	4.50	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	8120.2	IS 3025 (Part-58):2006
3	Suspended Solids (S.S.)	mg/ltr	2050.6	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	6612.8	APHA 2540 - C
5	Oil & Grease	mg/ltr	6.19	IS 3025 (Part-39):1991
6	Chloride	mg/ltr	670.0	APHA 4500 –Cl ⁻ B
7	Sulphate	mg/ltr	1309.0	APHA 4500 – SO ₄ ²⁻ E
8	Biochemical Oxygen Demand (BOD)	mg/ltr	1840.5	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/ EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M /EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM – Unit of Measurement

Note:-“The results pertain to tested portion of sample”

Authorized Signatory

(Mr. Subhash Mudgadkar)

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

AN "ENVIRONMENTAL LABORATORY"

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WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-67/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	ETP Outlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr×1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	12:20PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	MPCB Limits	Testing Method
1	pH	-	6.7	5.5-9.0	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	235.2	250	IS 3025 (Part-58):2006
3	Suspended Solids (S.S.)	mg/ltr	60.18	100	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1367.0	2100	APHA 2540 - C
5	Oil & Grease	mg/ltr	1.0	10	IS 3025 (Part-39):1991
6	Chloride	mg/ltr	478.5	600	APHA 4500 –Cl ⁻ B
7	Sulphate	mg/ltr	710.0	1000	APHA 4500 – SO ₄ ²⁻ E
8	Biochemical Oxygen Demand (BOD)	mg/ltr	71.0	100	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M /EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM – Unit of Measurement

Remark – All parameters are within MPCB limits.

Note:–“The results pertain to tested portion of sample”

Authorized Signatory

(Mr. Subhash Mudgadkar)

(Director)

*****AN ENVIRONMENTAL LABORATORY*****

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Format No. EELRC/LAB/F/069-7.8

SPENT WASH ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-68/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Spent Wash
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr×1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	12:30PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	Testing Method
1	pH	-	5.9	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	14330.2	IS 3025 (Part-58):2006
3	Total Solids (T.S.)	mg/ltr	7125.0	APHA 2540 - D
5	Potassium (K)	%	3.8	IS 3025 (Part-2):2019
6	Chloride	mg/ltr	6259.4	APHA 4500 –Cl ⁻ B
7	Sulphate	mg/ltr	2287.6	APHA 4500 – SO ₄ ²⁻ E
8	Biochemical Oxygen Demand (BOD)	mg/ltr	4299.0	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M /EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM – Unit of Measurement.

Note:-“The results pertain to tested portion of sample”

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-69/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Spray Pond
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr×1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	12:40PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	Testing Method
1	pH	-	6.64	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	220.5	IS 3025 (Part-58):2006
3	Suspended Solids (S.S.)	mg/ltr	61.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1374.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	1.0	IS 3025 (Part-39):1991
6	Sulphate	mg/ltr	447.5	APHA 4500 – SO ₄ ²⁻ E
7	Chloride	mg/ltr	276.02	APHA 4500 –Cl ⁻ B
8	Biochemical Oxygen Demand (BOD)	mg/ltr	42.0	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/ EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M/EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM – Unit of Measurement.

Note: "The results pertain to tested portion of sample"

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(Mr. Subhash Mudgadkar)
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Accreditation & Approvals

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WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-70/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Digester Outlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr×1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2021
07) Time of Sampling	14:50PM
08) Date of Sample Received in Lab	17/02/2021
09) Analysis Start Date	18/02/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	Testing Method
1	pH	-	6.64	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	27220.8	IS 3025 (Part-58):2006
3	Total Solids (T.S.)	mg/ltr	8310.4	APHA 2540 - D
5	Potassium (K%)	%	3.02	IS 3025 (Part-2):2019
6	Chloride	mg/ltr	4265.4	APHA 4500 –Cl ⁻ B
7	Sulphate	mg/ltr	1311.0	APHA 4500 – SO ₄ ²⁻ E
8	Biochemical Oxygen Demand (BOD)	mg/ltr	4299.0	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M /EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM – Unit of Measurement.

Note:–“The results pertain to tested portion of sample”

Authorized Signatory

(Mr. Subhash Mudgadkar)

(Director)

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

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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-71/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra- 416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Boiler-1 (100 TPH Capacity, 87 kg Boiler Pressure)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no. SO ₂ : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Global Enviro Tech Services	
06) Date of Sampling	16/02/2021	
07) Time of Sampling & Sampling Duration	From 11:40 AM to 12:40 PM (1hr)	
08) Date of Sample Received in Lab	17/02/2021	
09) Analysis Start Date	18/02/2021	
10) Material of Stack	RCC	
11) Stack Height	75 meter	
12) Type of Stack	Round	
13) Diameter of Stack	2.4meter	
14) Flue Gas Temperature	355 ⁰ K	
15) Differential Pressure	3.7 mmWG	
16) Velocity	7.20 m/sec	
17) Stack Area	4.9062 m ²	
18) Gas Volume	89838.38Nm ³ /hr	
19) Fuel Used	Bagasse	
20) Instrument Details	Make/ Model No.	Asha Enviro/350
	Serial No.	SMK-01
	Calibration Date	Calibration on:09/07/2020, Due On:08/07/2021

RESULT

Sr. No.	Parameter	UOM	Results	Limits as Per MPCB Consent	Standard Method
1	Total Particulate Matter	mg/Nm ³	73.09	≤ 150	IS 11255 (Part 1):1985
2	Sulphur Dioxide	Kg/day	4.19	-	IS 11255 (Part 2):1985
3	Oxides Of Nitrogen	mg/Nm ³	16.84	-	IS 11255 (Part 2):1985

UOM: Unit of Measurement

Remark: - Particulate Matter parameter results are within MPCB Limits.

Note: "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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



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Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-72/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra- 416204	Date of Reporting	24/02/2021

SAMPLING DETAILS

01) Location of Sampling	Boiler-2 (25TPH Capacity, 21 Kg Boiler Pressure)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no. SO ₂ : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Global Enviro Tech Services	
06) Date of Sampling	16/02/2021	
07) Time of Sampling & Sampling Duration	From 11:50 AM to 12:50 PM (1hr)	
08) Date of Sample Received in Lab	17/02/2021	
09) Analysis Start Date	18/02/2021	
10) Material of Stack	RCC	
11) Stack Height	75 meter	
12) Type of Stack	Round	
13) Diameter of Stack	2.4meter	
14) Flue Gas Temperature	347 ⁰ K	
15) Differential Pressure	3.7 mmWG	
16) Velocity	6.31 m/sec	
17) Stack Area	7.065m ²	
18) Gas Volume	13848.08 Nm ³ /hr	
19) Fuel Used	Bagasse	
20) Instrument Details	Make/ Model No.	Asha Enviro/350
	Serial No.	SMK-01
	Calibration Date	Calibration on:09/07/2020, Due On:08/07/2021

RESULT

Sr. No.	Parameter	UOM	Results	Limits as Per MPCB Consent	Standard Method
1	Total Particulate Matter	mg/Nm ³	68.12	≤ 150	IS 11255 (Part 1):1985
2	Sulphur Dioxide	Kg/day	4.06	-	IS 11255 (Part 2):1985
3	Oxides Of Nitrogen	mg/Nm ³	15.10	-	IS 11255 (Part 2):1985

UOM: Unit of Measurement

Remarks: - Particulate Matter parameter results are within MPCB Limits.

Note: "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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

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Format No.:EELRC/F/AMR/84

AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-976/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Near Main Gate
02) Sampling Procedure	As Per IS : 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	10:45 AM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021
08) Ambient Temperature	25°C
09) Dry Bulb Temperature	25°C
10) Wet Bulb Temperature	23°C
11) Relative Humidity	46% RH

RESULTS


Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	µg/m ³	69.5	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter (PM _{2.5})	µg/m ³	40.2	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO ₂)	µg/m ³	27.9	≤ 80	IS: 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	22.7	≤ 80	IS: 5182(Part 6):2006
5	Ammonia (NH ₃)	µg/m ³	26.11	≤ 400	Method 401 Air sampling and Analysis 3 rd Edition
6	Carbon Monoxide (CO)	mg/m ³	0.06	≤ 04	GC FID Methanizer Method
7	Ozone (O ₃)	µg/m ³	11.08	≤ 180	Method 411 Air sampling and Analysis 3 rd Edition
8	Lead (Pb)	µg/m ³	0.03	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m ³	0.15	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m ³	0.017	≤ 20	APHA 3120 B
11	Benzene (C ₆ H ₆)	µg/m ³	0.062	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	≤ 01	IS: 5182 Part 12:2004

UOM – Unit of Measurement


Remark: - All above results are within National Ambient Air Quality Standards, Notification dtd November 18, 2009.

Note:-“The results pertain to tested portion of sample”

Prepared By


Ms. Pinku Sontakke
(Lab Chemist)

Checked By


Dr. Pournima Thete
(Lab Manager)

Authorized Signatory


Mr. Subhash Mudgadkar
(Business Head)



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AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-977/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Near Cane Yard
02) Sampling Procedure	As Per IS : 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	11:00 AM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021
08) Ambient Temperature	24°C
09) Dry Bulb Temperature	23°C
10) Wet Bulb Temperature	21°C
11) Relative Humidity	44% RH

RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	µg/m ³	65.18	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter (PM _{2.5})	µg/m ³	37.22	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO ₂)	µg/m ³	19.5	≤ 80	IS: 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	26.41	≤ 80	IS: 5182(Part 6):2006
5	Ammonia (NH ₃)	µg/m ³	25.12	≤ 400	Method 401 Air sampling and Analysis 3 rd Edition
6	Carbon Monoxide (CO)	mg/m ³	0.06	≤ 04	GC FID Methanizer Method
7	Ozone (O ₃)	µg/m ³	13.34	≤ 180	Method 411 Air sampling and Analysis 3 rd Edition
8	Lead (Pb)	µg/m ³	0.02	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m ³	0.70	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m ³	0.09	≤ 20	APHA 3120 B
11	Benzene (C ₆ H ₆)	µg/m ³	0.04	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	≤ 01	IS: 5182 Part 12:2004

UOM – Unit of Measurement

Remark: - All above results are within National Ambient Air Quality Standards, Notification dtd November 18, 2009.

Note:—"The results pertain to tested portion of sample"

Prepared By

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Ms. Pinku Sontakke
(Lab Chemist)

Checked By

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Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

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Mr. Subhash Mudgadkar
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Accreditation & Approvals

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Format No.:EELRC/F/NMR/84

AMBIENT NOISE MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/N-978 to 979/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	As Listed Below in the Table
02) Sampling Procedure	As Per IS: 4758
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	11:20 AM

RESULTS

Sr. No.	Test Location	I.D. No.	UOM	Day Time	Night Time	MPCB Limit
1	Near Main Gate	N-978	dB (A)	67.36	58.7	During Day time= 75 dB(A)
2	Near Cane Yard	N-979	dB (A)	64.12	55.3	During Night Time= 70dB(A)

UOM – Unit of Measurement

Remark: The Noise Level is within MPCB normal Limits.

Prepared By

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(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Mudgadkar
(Business Head)



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Format No.:EELRC/F/SMR/84

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-980/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Boiler-1 (100 MT Capacity, 87 kg Boiler Pressure)
02) Sampling Procedure	IS:11255
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	11:35 AM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021
08) Material of Stack	RCC
09) Stack Height	80 meter
10) Type of Stack	Round
11) Dimension of Stack	2.4 meter
12) Flue Gas Temperature	354 ⁰ K
13) Differential Pressure	3.5mmWG
14) Velocity	6.68m/sec
15) Stack Area	4.9062m ²
16) Gas volume	91594.26Nm ³ /hr
17) Fuel Used	Diesel

RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm ³	72.5	≤ 150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	3.82	-
3	Sulphur Dioxide (SO ₂)	Kg/day	4.20	-
4	Oxides of Nitrogen	mg/Nm ³	15.46	-

UOM – Unit of Measurement

Remark: Total Particulate Matter results are within MPCB Limits.

Note:-“The results pertain to tested portion of sample”

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Mudgadkar
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SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-981/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Boiler-2 (25MT Capacity, 21 Kg Boiler Pressure)
02) Sampling Procedure	IS:11255
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	11:50 AM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021
08) Material of Stack	RCC
09) Stack Height	30 meter
10) Type of Stack	Round
11) Dimension of Stack	3.0 meter
12) Flue Gas Temperature	346 ⁰ K
13) Differential Pressure	3.2mmWG
14) Velocity	6.31m/sec
15) Stack Area	7.065m ²
16) Gas volume	138418.08Nm ³ /hr
17) Fuel Used	Diesel

RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm ³	67.40	≤ 150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	3.26	-
3	Sulphur Dioxide (SO ₂)	Kg/day	12.38	-
4	Oxides of Nitrogen	mg/Nm ³	14.64	-

UOM – Unit of Measurement

Remark: Total Particulate Matter results are within MPCB Limits.

Note:-“The results pertain to tested portion of sample”

Prepared By

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Checked By

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Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-982/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	ETP Inlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	12:15 PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021

RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.48	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	8024.6	IS 3025 (Part 58): 2006
3	Suspended Solids (SS)	mg/ltr	1946.0	APHA 2540 – D
4	Total Dissolved Solids (TDS)	mg/ltr	6572.0	APHA 2540 – C
5	Oil & Grease (O&G)	mg/ltr	7.9	IS 3025 (Part 39): 1991
6	Chlorides (as Cl)	mg/ltr	3589.3	APHA 4500 – Cl ⁻ B.
7	Sulphates (as SO ₄)	mg/ltr	1287.1	APHA 4500 – SO ₄ ²⁻ E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	1950.0	IS 3025 (Part 44) : 1993

UOM – Unit of Measurement

Note:-“The results pertain to tested portion of sample”

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Mudgadkar
(Business Head)



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Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-984/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Karkhana Site -Well Water 01(Shamrao Buva)
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	12:50 PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021

RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	UOM	Standard Method
Physical Parameter					
1.	Colour	1.20	<5	Hazen	IS : 3025 (Part 4)
2.	Turbidity	0.90	<1	NTU	IS : 3025 (Part 10)
3.	Total Dissolved Solids (TDS)	462.0	<500	ppm	IS : 3025 (Part 16)
4.	Electrical Conductivity	0.40	--	µS/cm	IS : 3025 (Part 14)
Chemical Parameter					
6.	pH	7.9	6.5 to 8.5	--	IS : 3025 (Part 11)
7.	Total Hardness (as CaCO ₃)	160.6	<200	mg/lit	IS : 3025 (Part 21)
8.	Total Alkalinity (as CaCO ₃)	143.8	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate (as SO ₄)	56.19	<200	mg/lit	IS : 3025 (Part 24)
10.	Nitrate (as NO ₃)	1.27	<45	mg/lit	IS : 3025 (Part 34)
11.	Fluoride (as F)	0.60	<1.5	mg/lit	IS : 3025 (Part 60)
12.	Residual Chlorine	NIL	0.20	mg/lit	IS : 3025 (Part 26)
13.	Chloride (as Cl)	110.7	<250	mg/lit	IS : 3025 (Part 32)
14.	Calcium (as Ca)	51.2	<75	mg/lit	IS : 3025 (Part 40)
15.	Magnesium (as Mg)	14.5	<30	mg/lit	IS : 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	APHA 9221F
17.	<i>E.coli.</i>	Absent	Absent	per/100ml	APHA 9221F

UOM – Unit of Measurement

Remark – All above parameter complying with required limit as per IS 10500: 2012 Standards.

Note: "The results pertain to tested portion of sample"

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Mudgalkar
(Business Head)

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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-985/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Well Water -02 Near Compost Yard
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	13:00 PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021

RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	UOM	Standard Method
Physical Parameter					
1.	Colour	1.0	<5	Hazen	IS : 3025 (Part 4)
2.	Turbidity	0.52	<1	NTU	IS : 3025 (Part 10)
3.	Total Dissolved Solids (TDS)	430.0	<500	ppm	IS : 3025 (Part 16)
4.	Electrical Conductivity	0.82	--	µS/cm	IS : 3025 (Part 14)
Chemical Parameter					
6.	pH	7.60	6.5 to 8.5	--	IS : 3025 (Part 11)
7.	Total Hardness (as CaCO ₃)	164.6	<200	mg/lit	IS : 3025 (Part 21)
8.	Total Alkalinity (as CaCO ₃)	158.0	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate (as SO ₄)	45.20	<200	mg/lit	IS : 3025 (Part 24)
10.	Nitrate (as NO ₃)	3.47	<45	mg/lit	IS : 3025 (Part 34)
11.	Fluoride (as F)	BDL	<1.5	mg/lit	IS : 3025 (Part 60)
12.	Residual Chlorine	NIL	0.20	mg/lit	IS : 3025 (Part 26)
13.	Chloride (as Cl)	82.50	<250	mg/lit	IS : 3025 (Part 32)
14.	Calcium (as Ca)	32.63	<75	mg/lit	IS : 3025 (Part 40)
15.	Magnesium (as Mg)	13.10	<30	mg/lit	IS : 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100 ml	APHA 9221F
17.	E.coli.	Absent	Absent	per/100ml	APHA 9221F

UOM – Unit of Measurement

Remark – All above parameter complying with required limit as per IS 10500: 2012 Standards.

Note: "The results pertain to tested portion of sample"

Prepared By
Pinku
Ms. Pinku Sontakke
(Lab Chemist)

Checked By
Thete
Dr. Pournima Thete
(Lab Manager)

Authorized Signatory
Subhash
Mr. Subhash Mudgalkar
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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-986/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 03 (Pandu Khorade)
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	13:15 PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021

RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	UOM	Standard Method
Physical Parameter					
1.	Colour	1.0	<5	Hazen	IS : 3025 (Part 4)
2.	Turbidity	0.78	<1	NTU	IS : 3025 (Part 10)
3.	Total Dissolved Solids (TDS)	435.0	<500	ppm	IS : 3025 (Part 16)
4.	Electrical Conductivity	0.80	--	µS/cm	IS : 3025 (Part 14)
Chemical Parameter					
6.	pH	7.76	6.5 to 8.5	--	IS : 3025 (Part 11)
7.	Total Hardness (as CaCO ₃)	177.3	<200	mg/lit	IS : 3025 (Part 21)
8.	Total Alkalinity (as CaCO ₃)	146.8	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate (as SO ₄)	65.9	<200	mg/lit	IS : 3025 (Part 24)
10.	Nitrate (as NO ₃)	2.34	<45	mg/lit	IS : 3025 (Part 34)
11.	Fluoride (as F)	0.68	<1.5	mg/lit	IS : 3025 (Part 60)
12.	Residual Chlorine	NIL	0.20	mg/lit	IS : 3025 (Part 26)
13.	Chloride (as Cl)	110.8	<250	mg/lit	IS : 3025 (Part 32)
14.	Calcium (as Ca)	27.6	<75	mg/lit	IS : 3025 (Part 40)
15.	Magnesium (as Mg)	16.2	<30	mg/lit	IS : 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100 ml	APHA 9221F
17.	<i>E.coli.</i>	Absent	Absent	per/100ml	APHA 9221F

UOM – Unit of Measurement

Remark – All above parameter complying with required limit as per IS 10500: 2012 Standards.

Note:–“The results pertain to tested portion of sample”

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Mudgalkar
(Business Head)

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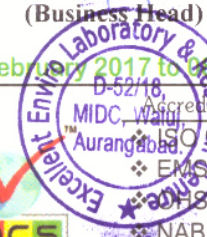
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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-987/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 04 (Dattatray Patil)
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	13:30 PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021

RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	UOM	Standard Method
Physical Parameter					
1.	Color	1.0	<5	Hazen	IS : 3025 (Part 4)
2.	Turbidity	0.76	<1	NTU	IS : 3025 (Part 10)
3.	Total Dissolved Solids (TDS)	458.0	<500	ppm	IS : 3025 (Part 16)
4.	Electrical Conductivity	823.5	--	µS/cm	IS : 3025 (Part 14)
Chemical Parameter					
6.	pH	7.34	6.5 to 8.5	--	IS : 3025 (Part 11)
7.	Total Hardness (as CaCO ₃)	165.4	<200	mg/lit	IS : 3025 (Part 21)
8.	Total Alkalinity (as CaCO ₃)	141.8	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate (as SO ₄)	50.3	<200	mg/lit	IS : 3025 (Part 24)
10.	Nitrate (as NO ₃)	2.01	<45	mg/lit	IS : 3025 (Part 34)
11.	Fluoride (as F)	0.59	<1.5	mg/lit	IS : 3025 (Part 60)
12.	Residual Chlorine	NIL	0.20	mg/lit	IS : 3025 (Part 26)
13.	Chloride (as Cl)	90.40	<250	mg/lit	IS : 3025 (Part 32)
14.	Calcium (as Ca)	36.24	<75	mg/lit	IS : 3025 (Part 40)
15.	Magnesium (as Mg)	10.98	<30	mg/lit	IS : 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/10 0ml	APHA 9221F
17.	<i>E.coli.</i>	Absent	Absent	per/100 ml	APHA 9221F

UOM – Unit of Measurement

Remark – All above parameter complying with required limit as per IS 10500: 2012 Standards.

Note:-“The results pertain to tested portion of sample”

Prepared By

Ms.Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Mudgalkar
(Business Head)

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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-988/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 05 (Shamrao Buva)
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	13:40 PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021

RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	UOM	Standard Method
Physical Parameter					
1.	Color	1.4	<5	Hazen	IS : 3025 (Part 4)
2.	Turbidity	0.68	<1	NTU	IS : 3025 (Part 10)
3.	Total Dissolved Solids (TDS)	460.0	<500	ppm	IS : 3025 (Part 16)
4.	Electrical Conductivity	818.9	--	µS/cm	IS : 3025 (Part 14)
Chemical Parameter					
6.	pH	7.29	6.5 to 8.5	--	IS : 3025 (Part 11)
7.	Total Hardness as (CaCO ₃)	124.7	<200	mg/lit	IS : 3025 (Part 21)
8.	Total Alkalinity as (CaCO ₃)	103.9	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate (as SO ₄)	48.62	<200	mg/lit	IS : 3025 (Part 24)
10.	Nitrate (as NO ₃)	1.72	<45	mg/lit	IS : 3025 (Part 34)
11.	Fluoride (as F)	0.35	<1.5	mg/lit	IS : 3025 (Part 60)
12.	Residual Chlorine	NIL	0.20	mg/lit	IS : 3025 (Part 26)
13.	Chloride (as Cl)	95.63	<250	mg/lit	IS : 3025 (Part 32)
14.	Calcium (as Ca)	26.70	<75	mg/lit	IS : 3025 (Part 40)
15.	Magnesium (as Mg)	9.37	<30	mg/lit	IS : 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	APHA 9221F
17.	<i>E.coli.</i>	Absent	Absent	per/100 ml	APHA 9221F

UOM – Unit of Measurement

Remark – All above parameter complying with required limit as per IS 10500: 2012 Standards.

Note:-“The results pertain to tested portion of sample”

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

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(Lab Manager)

Authorized Signatory

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(Business Head)

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COMPOST SAMPLE ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/SO-989/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS


01) Location of Sampling	Compost
02) Sampling Procedure	-
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	13:50PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021

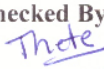
RESULTS


Sr. No.	Parameter	Result	UOM
1.	pH (1:5 Suspension)	7.49	---
2.	Moisture	38.16	%
3.	Colour	Blackish Brown	--
4.	Odour	Absence of Foul Smell	--
5.	Bulk Density	0.61	g/cm ³
6.	Total Organic Carbon	24.10	%
7.	Total Nitrogen (as N)	2.8	%
8.	Total Phosphate (as P ₂ O ₅)	4.18	%
9.	Potash (as K ₂ O)	3.80	%
10.	C:N Ratio	14.57	--
11.	Particle Size	82% pass through 4.0 mm Sieve	%

UOM – Unit of Measurement

Note:-“The results pertain to tested portion of sample”

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Mudgalkar
(Business Head)



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Format No.:EELRC/F/WAR/84

WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-990/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

01) Location of Sampling	Spent Wash
02) Sampling Procedure	APHA 1060 B 23 rd Edition
02) Sample Collected By	M/s. Global Enviro Tech Services
03) Date of Sampling	17/01/2021
04) Time of Sampling	14:10 PM
05) Date of Sample Received in Lab	18/01/2021
06) Analysis Start Date	18/01/2021


RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	6.5	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	13510.6	IS 3025 (Part 58): 2006
3	Total Solids (TS)	mg/ltr	15590.0	APHA 2540 - D
4	Potassium (as K)	%	4.7	APHA 3500-K
5	Chlorides (as Cl)	mg/ltr	6690.4	APHA 4500 – Cl ⁻ B.
6	Sulphates (as SO ₄)	mg/ltr	2284.0	APHA 4500 – SO ₄ ²⁻ E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	33910.0	IS 3025 (Part 44) : 1993


UOM – Unit of Measurement

Note:-“The results pertain to tested portion of sample”


Prepared By


Ms. Pinku Sontakke
(Lab Chemist)

Checked By


Dr. Pournima Thete
(Lab Manager)

Authorized Signatory


Mr. Subhash Mudgadkar
(Business Head)



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WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-991/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

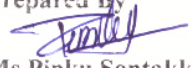
01) Location of Sampling	Spray Pond
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	14:20 PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021

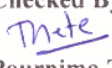
RESULTS


Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	7.12	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	190.4	IS 3025 (Part 58): 2006
3	Suspended Solids (SS)	mg/ltr	59.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1481.0	APHA 2540 - C
5	Oil & Grease (O&G)	mg/ltr	BDL	IS 3025 (Part 39): 1991
6	Chlorides (as Cl)	mg/ltr	270.6	APHA 4500 – Cl ⁻ B.
7	Sulphates (as SO ₄)	mg/ltr	428.9	APHA 4500 – SO ₄ ²⁻ E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	41.0	IS 3025 (Part 44) : 1993

UOM – Unit of Measurement.

Note:-"The results pertain to tested portion of sample"

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Mudgadkar
(Business Head)



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WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-992/01/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal- Karveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	27/01/2021

SAMPLING DETAILS

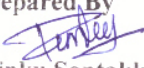
01) Location of Sampling	Digester Outlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	17/01/2021
05) Time of Sampling	14:35 PM
06) Date of Sample Received in Lab	18/01/2021
07) Analysis Start Date	18/01/2021


RESULTS


Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	6.15	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	26630.3	IS 3025 (Part 58): 2006
3	Total Solids (TS)	mg/ltr	8274.8	APHA 2540 - D
4	Potassium (as K)	%	2.70	APHA 3500-K
5	Chlorides (as Cl)	mg/ltr	4139.8	APHA 4500 – Cl ⁻ B.
6	Sulphates (as SO ₄)	mg/ltr	1270.0	APHA 4500 – SO ₄ ²⁻ E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	6045.0	IS 3025 (Part 44) : 1993

UOM – Unit of Measurement

Note:-“The results pertain to tested portion of sample”

Prepared By

Ms. Pinku Sontakke
(Lab Chemist)

Checked By

Dr. Pournima Thete
(Lab Manager)

Authorized Signatory

Mr. Subhash Madgadkar
(Business Head)



AN "ENVIRONMENTAL LABORATORY"

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AMBIENT NOISE MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/N-215 to 216/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

SAMPLING DETAILS		
01) Location of Sampling	As Listed Below in the Table	
02) Sampling Procedure	IS 4758	
03) Sample Collected By	M/s. Global Enviro Tech Services	
04) Date of Sampling	11/03/2021to 12/03/2021	
05) Time of Sampling & Sampling Duration	From 11:30 AM of 11/03/2021to 11:30 PM of 12/03/2021(24 hrs)	
06) Sampling Duration	24 hrs. Day & Night	
07) Instrument Details	Serial No.	4201
	Make	LUTRON
	Calibration Date	Calibration On: 19/02/2021 Due On: 18/02/2022

RESULTS

Sr. No.	Test Location	I.D. No.	UOM	Day Time	Night Time	MPCB Limit
1	Near Main Gate	N-215	dB (A)	69.10	60.33	During Day time= 75 dB(A) During Night Time= 70dB(A)
2	Near Cane Yard	N-216	dB (A)	66.17	55.40	

UOM -Unit of Measurement

Remarks: The Noise Level is within MPCB normal Limits.

Authorized Signatory

(Mr. Subhash Mudgalkar)
(Director)

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



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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-217/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Tal-Kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-01(Pradeep Kharade)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	13:00 PM
08) Date of Sample Received in Lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	2.0	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.40	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids (TDS)	450.6	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.70	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.9	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness(as CaCO ₃)	180.5	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	151.8	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	62.5	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	3.7	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.75	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	BDL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	128	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	35	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	17.6	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	E.coli	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM -Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Chaudhkar)

(Director)

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

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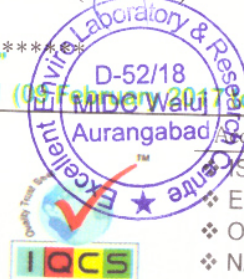
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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-218/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Tal-Kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-02(Harijan)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	13:15 PM
08) Date of Sample Received in lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.45	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	1.30	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids (TDS)	427	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.49	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	8.1	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness(as CaCO ₃)	151	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	149	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	68.40	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	3.9	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.76	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	139.0	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	32.8	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	16.7	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	E.coli.	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM -Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)

(Director)

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

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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-219/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Tal-Kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-03 (Datta Naik)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	13:20 PM
08) Date of Sample Received in Lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	2.10	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.70	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids (TDS)	422	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.30	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	8.04	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness (as CaCO ₃)	170.02	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	154.08	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	77	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	4.55	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.70	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	114	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	27.08	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	18.03	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	E.coli.	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM - Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note: "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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

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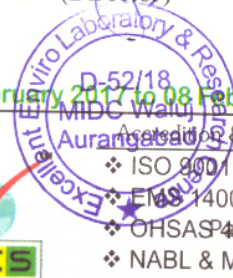
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WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-220/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Tal-Kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-04 (Shamravo Buva)
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	13:30 PM
08) Date of Sample Received in Lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	2.18	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.50	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids(TDS)	390.00	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.50	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.09	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness (as CaCO ₃)	130.0	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	122.02	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	54.07	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	1.70	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.48	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	190	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	16.05	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	19.01	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	E.coli	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM - Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note: "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mndgadkar)
(Director)

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

AN "ENVIRONMENTAL LABORATORY"

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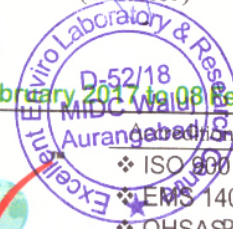
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Excellent Enviro Laboratory & Research Center

Format No. EELRC/LAB/F/068-7.8

WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-221/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Tal-Kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Bore Well Water-05 Jayvant Shinde
02) Sampling Procedure	IS 3025 (Part-1) & IS 1622
03) Sample Volume	2 ltr × 1 no. Plastic Can 65 ml × 1 no. Sterile Glass Bottle
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	13:40 PM
08) Date of Sample Received in lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	2.09	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.60	<1	NTU	IS : 3025 (Part 10):1984
3.	Total Dissolved Solids (TDS)	410	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.56	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.03	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness (as CaCO ₃)	155.06	<200	mg/lit	APHA 2340 C
8.	Total Alkalinity	144.02	<200	mg/lit	IS : 3025 (Part 23)
9.	Sulphate	48.06	<200	mg/lit	IS : 3025 (Part 24):1986
10.	Nitrate	5.01	<45	mg/lit	IS : 3025 (Part 34):1988
11.	Fluoride	0.66	<1.5	mg/lit	IS : 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.2	mg/lit	APHA 22 nd Edition
13.	Chloride	133.0	<250	mg/lit	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	36.07	<75	mg/lit	APHA 3500-Ca B
15.	Magnesium (as Mg)	20.05	<30	mg/lit	APHA 3500-Mg B
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622 (R.A.1996)
17.	E.coli.	Absent	Absent	per/100ml	IS 1622 (R.A.1996)

UOM -Unit of Measurement

Remark: - All Parameters Results are complying with required limits as per 10500:2012 Standards.

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhas Mudgadkar)
(Director)

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

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Format No. EELRC/LAB/F/066-7.8

AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-223/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra- 416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

SAMPLING DETAILS		
01) Location of Sampling	Near Cane Yard	
02) Sampling Procedure	IS 5182 Part 5	
03)Sample Volume	SO ₂ : 30 ml×1 no. (Plastic Bottle), NO ₂ : 30 ml×1 no.(Plastic Bottle), PM ₁₀ : Filter Paper: 1×1no, PM _{2.5} : Filter Paper: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Global Enviro Tech Services	
06) Date of Sampling	11/03/2021	
07) Time of Sampling & Sampling Duration	From 11:30 AM of 11/03/2021 to 11:30 AM of 12/03/2021(24 hrs)	
08) Date of Sample Received in Lab	13/03/2021	
09) Analysis Start Date	13/03/2021	
10) Ambient Temperature	27 ⁰ C	
11) Dry Bulb Temperature	28 ⁰ C	
12) Wet Bulb Temperature	29 ⁰ C	
13) Relative Humidity	49%RH	
14) Instrument Details	Make/Model No.	POLLTECH /PRM -DCAF 2.5/10μ
	Serial No.	0418
	Calibration Date	Calibration on:22/09/2020, Due On:21/09/2021

RESULTS

Sr. No	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	μg/m ³	66.12	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter (PM _{2.5})	μg/m ³	38.5	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO ₂)	μg/m ³	20.04	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO ₂)	μg/m ³	25.8	≤ 80	IS 5182(Part 6):2006
5	Ammonia (NH ₃)	μg/m ³	21.17	≤ 400	Method 401 Air sampling and Analysis 3 rd Edition
6	Carbon Monoxide (CO)	mg/m ³	0.04	≤ 04	GC FID Methanizer Method
7	Ozone (O ₃)	μg/m ³	14.10	≤ 180	Method 411 Air sampling and Analysis 3 rd Edition
8	Lead (Pb)	μg/m ³	BDL	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m ³	0.69	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m ³	0.08	≤ 20	APHA 3120 B
11	Benzene (C ₆ H ₆)	μg/m ³	BDL	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	≤ 01	IS: 5182 Part 12:2004

UOM – Unit of Measurement

Remark: - All above results are within National Ambient Air Quality Standards Notification dtd November 18, 2009.

Note- "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhas Mudgalkar)
(Director)

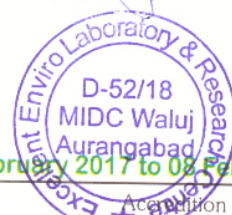
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Format No. EELRC/LAB/F/072-7.8

COMPOST REPORT

Client's Name & Address	Sample Code	EELRC/ABD/SO-224/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Sample Name	Compost
	Sample Location	Compost Site Well Water
	Container Details	Plastic can 2 Lit
	Sample Collected By	M/s. Global Enviro Tech Services
	Date of Sampling	11/03/2021
	Date of Sample receipt	12/03/2021
	Start Date of Analysis	12/03/2021
	End Date of Analysis	18/03/2021

RESULTS

Sr. No.	Parameters	Unit	Results	Test Methods
1	PH	-	6.18	IS:2720 (Part-26)-1987
2	Moisture Content	%	5.09	IS:2720(Part-2)-2010
3	Colour	--	Blackish Brown	IS3025(Part-4)
4	Odour	--	Absence of Foul Smell	IS3025(Part-5)
5	Bulk Density	g/m ³	0.60	As per Quality Test procedure based on Manual of Soil Testing in India, Department of Agriculture & Corporation, Ministry of Agriculture, GoI, 2011
6	Total Organic Carbon	%	27.08	IS:2720 (Part-22)-1972
7	Total Nitrogen (as N)	mg/ltr	1.2	IS 14684 (1999)
8	Total Phosphate (as P ₂ O ₅)	mg/ltr	4.20	As per Quality Test procedure(ICP)
9	Potash (as K ₂ O)	%	3.07	-
10	C:N Ratio	-	16.02	-

UOM – Unit of Measurement

Note: -“The results pertain to tested portion of sample”

Authorized Signatory

(Mr. Subhash Mungadkar)
(Director)

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

AN "ENVIRONMENTAL LABORATORY"

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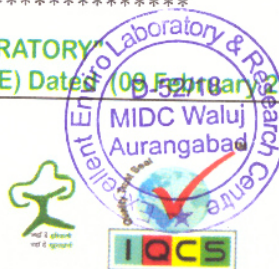
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Format No. EELRC/LAB/F/069-7.8

WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-225/03/2020-21
M/s. Kumbhi Kasari Sakhari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	ETP Inlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr x 1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	14:50PM
08) Date of Sample Received in Lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	Testing Method
1	pH	-	4.30	APHA 4500 - H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	5751.09	IS 3025 (Part-58):2006
3	Suspended Solids (S.S.)	mg/ltr	2270.05	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	6822.4	APHA 2540 - C
5	Oil & Grease	mg/ltr	7.10	IS 3025 (Part-39):1991
6	Chloride	mg/ltr	620.0	APHA 4500-Cl-B
7	Sulphate	mg/ltr	1407.0	APHA 4500 - SO ₄ ²⁻ E
8	Biochemical Oxygen Demand (BOD)	mg/ltr	1917.03	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/ EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M/EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM - Unit of Measurement

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash M. Gadkar)
(Director)

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

AN "ENVIRONMENTAL LABORATORY"

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Format No. EELRC/LAB/F/069-7.8

WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-226/03/2020-21
M/s. Kumbhi Kasari Sakhari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	ETP Outlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr×1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	14:50PM
08) Date of Sample Received in Lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	MPCB Limits	Testing Method
1	pH	-	8.04	5.5-9.0	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	165.0	250	IS 3025 (Part-58):2006
3	Suspended Solids (S.S.)	mg/ltr	62.27	100	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1460.0	2100	APHA 2540 - C
5	Oil & Grease	mg/ltr	0.5	10	IS 3025 (Part-39):1991
6	Chloride	mg/ltr	430.00	600	APHA 4500 –Cl ⁻ B
7	Sulphate	mg/ltr	814.0	1000	APHA 4500 – SO ₄ ²⁻ E
8	Biochemical Oxygen Demand (BOD)	mg/ltr	55.0	100	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M /EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM – Unit of Measurement

Remark – All parameters are within MPCB limits.

Note: "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Jagadkar)
(Director)

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

AN "ENVIRONMENTAL LABORATORY"

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Excellent Enviro Laboratory & Research Center

Format No. EELRC/LAB/F069-7.3

SPENT WASH ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-227/03/2020-21
M/s. Kumbhi Kasari Sahkari SakharKarkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Spent Wash
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr×1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	14:50PM
08) Date of Received in Lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	Testing Method
1	pH	-	6.02	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	14568	IS 3025 (Part-58):2006
3	Total Solids (T.S.)	mg/ltr	7241.0	APHA 2540 - D
5	Potassium (K%)	mg/ltr	4.01	IS 3025 (Part-2):2019
6	Chloride	mg/ltr	6310	APHA 4500 – Cl ⁻ B
7	Sulphate	mg/ltr	2350	APHA 4500 – SO ₄ ²⁻ E
8	Biochemical Oxygen Demand (BOD)	mg/ltr	4354.0	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/ EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M/EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM – Unit of Measurement.

Note:-“The results pertain to tested portion of sample”

Authorized Signatory

(Mr. Subhash Madgadkar)
(Director)

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* 09767838931/08668441453



Accreditation & Approvals

- ❖ ISO 9001: 2015
- ❖ EMS 14001 : 2015
- ❖ OHSAS 18001: 2015
- ❖ NABL & MOEF & CC approved laboratory By Govt. of India

Website : www.eelab.in/eelab@excellentenviro.com
info@excellentenviro.com



Excellent Enviro Laboratory & Research Center

Format No. EELRC/LAB/F/069-7.8

WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-228/03/2020-21
M/s. Kumbhi Kasari Sakhari Sakhar Karkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Spray Pond
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr x 1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	14:50PM
08) Date of Sample Received in Lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	Testing Method
1	pH	-	6.30	APHA 4500 - H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	190.5	IS 3025 (Part-58):2006
3	Suspended Solids (S.S.)	mg/ltr	62.7	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1405.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	1.0	IS 3025 (Part-39):1991
6	Sulphate	mg/ltr	450.09	APHA 4500 - SO ₄ ²⁻ E
7	Chloride	mg/ltr	292.07	APHA 4500 - Cl ⁻ B
8	Biochemical Oxygen Demand (BOD)	mg/ltr	46.05	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/ EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M/EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM - Unit of Measurement

Note:-"The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mangadkar)

(Director)

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

AN "ENVIRONMENTAL LABORATORY"

Recognised by MOEF & CC, New Delhi, Gazette Notification S.O. 388 (E) Dated 09 February 2017 to 08 February 2022

REGISTERED OFFICE :
D-52/18, MIDC Waluj,
Aurangabad - 431 136.
Tel. 0240-6641879
* 07745069991
08668441453

MUMBAI OFFICE
Dhawalgiri Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thana Naka, Panvel - 410 206
* 08652671991/08668441453

PUNE OFFICE
Gut No. 1252, Tuljai Nagar
Behind Gharkul Building
No. C-11, Spine Road
Newale Wasti Chikhali
Pune - 411062
* 09767838931/08668441453



Accreditation & Approvals

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Excellent Enviro Laboratory & Research Center

Format No. EELRC/LAB/F/069-7.8

WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-229/03/2020-21
M/s. Kumbhi Kasari Sahkari SakharKarkhana, Tal-Kaveer, kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Digester Outlet
02) Sampling Procedure	APHA 1060 B 23 rd Edition
03) Sample Volume	2 ltr×1 no. Plastic Can
04) Sample Status (Sealed/Unsealed)	Sealed
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	11/03/2021
07) Time of Sampling	14:50PM
08) Date of Sample Received in Lab	12/03/2021
09) Analysis Start Date	13/03/2021
10) Sampling Type	Grab Sampling

RESULT

Sr. No.	Parameter	UOM	Results of Sample	Testing Method
1	pH	-	5.09	APHA 4500 – H ⁺ B
2	Chemical Oxygen Demand (COD)	mg/ltr	14360.0	IS 3025 (Part-58):2006
3	Total Solids (T.S.)	mg/ltr	8409.04	APHA 2540 - D
5	Potassium (K%)	mg/ltr	3.50	IS 3025 (Part-2):2019
6	Chloride	mg/ltr	4370.02	APHA 4500 – Cl ⁻ B
7	Sulphate	mg/ltr	1422.0	APHA 4500 – SO ₄ ²⁻ E
8	Biochemical Oxygen Demand (BOD)	mg/ltr	4411.0	IS 3025 (Part-44):1993

INSTRUMENT DETAILS

Name of Equipment	Sr. No.	Model No.	Make	Calibration Date
pH Meter	18060131	EE/LAB/INS/001	ESICO	Calibration On: 27/06/2020, Due On: 26/06/2021
Weighing Balance	3138284	CX220/EELRC/EQP/E WB/08	CITIZON	Calibration On: 23/01/2021, Due On: 22/01/2022
BOD Incubator	61231	BTL/EELRC/EQP/BO D/04	BIO TECHNO LAB	Calibration On: 23/01/2021, Due On: 22/01/2022
Hot Air Oven	70933	BTI-29/EELRC/EQP/HAO/03	BIO TECHNIQUES INDIA	Calibration On: 23/01/2021, Due On: 22/01/2022
COD Digester	ST006	COD 2015 M /EE LRC/EQP/COD/05	SPECTRALAB	Calibration On: 23/01/2021, Due On: 22/01/2022
UV Spectrophotometer	A116352036 62	-	TOSHVIN ANALYTICAL	Calibration On: 06/07/2020, Due On: 06/07/2021

UOM – Unit of Measurement

Note:-“The results pertain to tested portion of sample”

Authorized Signatory

(Mr. Subhash Mangadkar)
(Director)

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



AN "ENVIRONMENTAL LABORATORY"

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D-52/18, MIDC Waluj,
Aurangabad - 431 136.
Tel. 0240-6641879
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MUMBAI OFFICE
Dhawalgiri Co-op. Hsg. Society,
Building No.1, Flat No. B-3,
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Thana Naka, Panvel - 410 206
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Gut No. 1252, Tuljai Nagar
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Accreditation & Approvals

- ❖ ISO 9001: 2015
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Website : www.eelab.in/eelab@excellentenviro.com
info@excellentenviro.com

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-230/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

01) Location of Sampling	Boiler-1 (100 TPH Capacity, 87 kg Boiler Pressure)	
02) Sampling Procedure	IS 11255	
03) Sample Volume	Thimble: 1×1no. SO ₂ : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Global Enviro Tech Services	
06) Date of Sampling	11/03/2021	
07) Time of Sampling & Sampling Duration	From 11:40 AM to 12:40 PM (1hr)	
08) Date of Sample Received in Lab	12/03/2021	
09) Analysis Start Date	13/03/2021	
10) Material of Stack	RCC	
11) Stack Height	75 meter	
12) Type of Stack	Round	
13) Diameter of Stack	2.4 meter	
14) Flue Gas Temperature	355 ⁰ K	
15) Differential Pressure	3.7 mmWG	
16) Velocity	7.20 m/sec	
17) Stack Area	4.9062 m ²	
18) Gas Volume	89838.38Nm ³ /hr	
19) Fuel Used	Bagasse	
20) Instrument Details	Make/ Model No.	Asha Enviro/350
	Serial No.	SMK-01
	Calibration Date	Calibration on:09/07/2020, Due On:08/07/2021

RESULT

Sr. No.	Parameter	UOM	Results	Limits as Per MPCB Consent	Standard Method
1	Total Particulate Matter	mg/Nm ³	71.08	≤ 150	IS 11255 (Part 1):1985
2	Sulphur Dioxide	Kg/day	3.10	-	IS 11255 (Part 2):1985
3	Oxides Of Nitrogen	mg/Nm ³	4.85	-	IS 11255 (Part 2):1985

UOM: Unit of Measurement

Remark: - Particulate Matter parameter results are within MPCB Limits.

Note: "The results pertain to tested portion of sample"

Authorized Signatory



(Mr. Subhash Mudgadkar)
(Director)

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



AN "ENVIRONMENTAL LABORATORY"

Recognised by MOEF & CC, New Delhi, Gazette Notification S.O. 388 (E) Dated (09 February 2017 to 08 February 2022)

REGISTERED OFFICE : D-52/18, MIDC Waluj, Aurangabad - 431 136. Tel. 0240-6641879 ☎ 07745069991 08668441453	MUMBAI OFFICE Dhawalgiri Co-op. Hsg. Society, Building No.1, Flat No. B-3, Near Peace Park Hotel, Thana Naka, Panvel - 410 206 ☎ 08652671991/08668441453	PUNE OFFICE Gut No. 1252, Tuljai Nagar Behind Gharkul Building No. C-11, Spine Road Newale Wasti Chikhali Pune - 411062 ☎ 09767838931/08668441453	Accreditation & Approvals ❖ ISO 9001: 2015 ❖ EMS 14001 : 2015 ❖ OHSAS 18001: 2018 ❖ NABL & MOEF & CC approved laboratory By Govt. of India
	Website : www.eelab.in/eelab@excellentenviro.com info@excellentenviro.com		 



Excellent Enviro Laboratory & Research Center

Format No. EELRC/LAB/F/067-7.8

SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-231/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

SAMPLING DETAILS		
01) Location of Sampling	Boiler-2 (25TPH Capacity, 21 Kg Boiler Pressure)	
02) Sampling Procedure	IS 11255	
03)Sample Volume	Thimble: 1×1no. SO ₂ : 30 ml ×1 no. (Plastic Bottle)	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Global Enviro Tech Services	
06) Date of Sampling	11/03/2021	
07) Time of Sampling & Sampling Duration	From 11:50 AM to 12:50 PM (1hr)	
08) Date of Sample Received in Lab	12/03/2021	
09) Analysis Start Date	13/03/2021	
10) Material of Stack	RCC	
11) Stack Height	75 meter	
12) Type of Stack	Round	
13) Diameter of Stack	2.4 meter	
14) Flue Gas Temperature	347 ⁰ K	
15) Differential Pressure	3.7 mmWG	
16) Velocity	6.31 m/sec	
17) Stack Area	7.065m ²	
18) Gas Volume	13848.08 Nm ³ /hr	
19) Fuel Used	Bagasse	
20) Instrument Details	Make/ Model No.	Asha Enviro/350
	Serial No.	SMK-01
	Calibration Date	Calibration on:09/07/2020, Due On:08/07/2021

RESULT

Sr. No.	Parameter	UOM	Results	Limits as Per MPCB Consent	Standard Method
1	Total Particulate Matter	mg/Nm ³	68.12	≤ 150	IS 11255 (Part 1):1985
2	Sulphur Dioxide	Kg/day	4.06	-	IS 11255 (Part 2):1985
3	Oxides Of Nitrogen	mg/Nm ³	3.07	-	IS 11255 (Part 2):1985

UOM: Unit of Measurement

Remarks: - Particulate Matter parameter results are within MPCB Limits.

Note: "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgadkar)
(Director)

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

AN "ENVIRONMENTAL LABORATORY"

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REGISTERED OFFICE :

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Tel. 0240-6641879
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08668441453

MUMBAI OFFICE

Dhawalgi Co-op. Hsg. Society.
Building No.1, Flat No. B-3,
Near Peace Park Hotel,
Thana Naka, Panvel - 410 206
* 08652671991/08668441453

PUNE OFFICE

Gut No. 1252, Tuljai Nagar
Behind Gharkul Building
No. C-11, Spine Road
Newale Wasti Chikhali
Pune - 411062
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Website : www.eelab.in/eelab@excellentenviro.com
info@excellentenviro.com



Accreditation & Approvals

- ❖ ISO 9001: 2015
- ❖ EMS 14001 : 2015
- ❖ OHSAS 18001:2007
- ❖ NABL & MOEF & CC approved laboratory By Govt. of India



Excellent Enviro Laboratory & Research Center

Format No. EELRC/LAB/F/066-7.8

AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-222/03/2020-21
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, Kuditre, Kolhapur, Maharashtra-416204	Date of Reporting	20/03/2021

SAMPLING DETAILS

SAMPLING DETAILS		
01) Location of Sampling	Near Main Gate	
02) Sampling Procedure	IS 5182 Part 5	
03)Sample Volume	SO ₂ : 30 ml×1 no. (Plastic Bottle), NO ₂ : 30 ml×1 no.(Plastic Bottle), PM ₁₀ : Filter Paper: 1×1no, PM _{2.5} : Filter Paper: 1×1no.	
04) Sample Status (Sealed/Unsealed)	Sealed	
05) Sample Collected By	M/s. Global Enviro Tech Services	
06) Date of Sampling	11/03/2021	
07) Time of Sampling & Sampling Duration	From 10:50 AM of 11/03/2021 to 10:50 AM of12/03/2021(24 hrs)	
08) Date of Sample Received in Lab	13/03/2021	
09) Analysis Start Date	13/03/2021	
10) Ambient Temperature	29 ⁰ C	
11) Dry Bulb Temperature	26 ⁰ C	
12) Wet Bulb Temperature	27 ⁰ C	
13) Relative Humidity	48%RH	
14) Instrument Details	Make/Model No.	POLLTECH /PRM -DCAF 2.5/10μ
	Serial No.	0418
	Calibration Date	Calibration on:22/09/2020, Due On:21/09/2021

RESULTS

Sr. No	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter (PM ₁₀)	μg/m ³	68.6	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter (PM _{2.5})	μg/m ³	39.3	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO ₂)	μg/m ³	21.6	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO ₂)	μg/m ³	24.9	≤ 80	IS 5182 (Part 6): 2006
5	Ammonia (NH ₃)	μg/m ³	25.1	≤ 400	Method 401 Air sampling and Analysis 3 rd Edition
6	Carbon Monoxide (CO)	mg/m ³	0.07	≤ 04	GC FID Methanizer Method
7	Ozone (O ₃)	μg/m ³	11.2	≤ 180	Method 411 Air sampling and Analysis 3 rd Edition
8	Lead (Pb)	μg/m ³	0.05	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m ³	0.81	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m ³	0.16	≤ 20	APHA 3120 B
11	Benzene (C ₆ H ₆)	μg/m ³	0.70	≤ 05	IS: 5182 Part 11: 2006
12	Benzo (a) Pyrene (BaP)	ng/ m ³	BDL	≤ 01	IS: 5182 Part 12: 2004

UOM – Unit of Measurement

Remark: - All above results are within National Ambient Air Quality Standards Notification dtd November 18, 2009.

Note- "The results pertain to tested portion of sample"

Authorized Signatory

(Mr. Subhash Mudgalkar)
(Director)

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

AN "ENVIRONMENTAL LABORATORY"

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Accreditation & Approvals

- ❖ ISO 9001: 2015
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Website : www.eelab.in/eelab@excellentenviro.com
info@excellentenviro.com

Annexure – IV

Health Checkup Reports of Workers

DR. ARVIND A. MANE

M.B.B.S., D.P.H., A.F.I.H. (Mumbai)

Certifying Surgeon for Factories
Kolhapur / Sangli / Raigad District
Under Govt. of Maharashtra Factories Rules



Dalitmitra Dr. Ashokrao Mane Foundation

**Mane Care Diagnostic &
Research Center**


ORTHOPAEDIC | E.N.T. | MEDICINE | PSYCHIATRIC | GENERAL SURGERY | PHYSIOTHERAPY | I.C.U. | GYNECOLOGY

WORKER MEDICAL SUMMERY SHEET

Kumbhi-Kasari S S K Ltd Kuditre

Blood Sugar

SR.NO	WORKER NAME	AGE	OBSERVATION	REMARK
8	MARUTI L. PATIL	53	BSL(R)184	Please Confirm With Fasting PP
9	MARUTI S. YADAV	42	*BSL(R)266	Please Confirm With Fasting PP
18	JAYSING G. DESAI	44	*BSL(R)152	Please Confirm With Fasting PP
26	PANDIT S. CHOUGULE	49	*BSL(R)350	Please Confirm With Fasting PP
50	PANDURANG G. CHAVANE	59	*BSL(R)250	Please Confirm With Fasting PP
55	PANDURANG B. TALSKAR	58	*BSL(R)233	Please Confirm With Fasting PP
62	SADASHIV M. MIRAJKAR	45	*BSL(R)284	Please Confirm With Fasting PP
72	DINKAR S. METE	50	*BSL(R)173	Please Confirm With Fasting PP
76	MAHADEV S. KADAM	51	*BSL(R)223	Please Confirm With Fasting PP
105	RAJARAM S. PATIL	53	*BSL(R)173	Please Confirm With Fasting PP
107	SHANKAR D. CHOUGULE	54	*BSL(R)233	Please Confirm With Fasting PP
*BSL(R)=Blood Sugar Level Random				

AUDIOGRAM

SR.NO	WORKER NAME	AGE	OBSERVATION	REMARK
98	UTTAM G. PATIL	47	Mild Hearing Loss(R)	Use PPE
3	BAPU R. KASHID	45	Mild Hearing Loss(R)	Use PPE
33	NANDAV D. PATIL	54	Mild Hearing Loss(L)	Use PPE
36	PANDURANG D. MUGADE	57	Mild Hearing Loss(R)	Use PPE
41	EKNATH S. WATKAE	55	Mild Hearing Loss(L)	Use PPE
48	SHIVAJI A. PATIL	48	Mild Hearing Loss(R)	Use PPE
55	PANDURANG B. TALSKAE	58	Mild Hearing Loss(R)	Use PPE

DR. ARVIND A. MANE

M.B.B.S., D.P.H., A.F.I.H. (Mumbai)

Certifying Surgeon For Factories

Kolhapur District

JAYSINGPUR :- 10th Lane, Laxmi Road, Behind S.T. Stand, Jaysingpur Tal. Shirol, Dist. Kolhapur 416101. Mob : 9260171111 Office : 9623711777

PANVEL (Navi Mumbai) :- Sparsh Super-Speciality Hospital, Mission Compound, Opposite Orion Mall, 410206. Mob. : 9260171111 Office : 9623711777

57	NAMASO H. PATIL	57	Mild Hearing Loss(L)	Use PPE
63	ANANDA R. MANE	55	Mild Hearing Loss(R)	Use PPE
64	BHIWAJI D. PATIL	51	Mild Hearing Loss(R)	Use PPE
69	SHIVAJI D. SHIANGAN	49	Mild Hearing Loss(R)	Use PPE
83	YUVRAJ M. PATIL	54	Mild Hearing Loss(R)	Use PPE
93	VINAYAK S. KUMBHAR	39	Mild Hearing Loss(R)	Use PPE

SPIROMETRY

Sr.NO	WORKER NAME	AGE	OBSERVATION	REMARK
55	PANDURANG B. TALASKAR	58	Mild Restriction	Symptomatic Treatment
99	RANRAO D. VARUTE	58	Mild Restriction	Stop Addiction
122	PANDURANG S. NALWADE	52	Mild Restriction	Symptomatic Treatment


DR. ARVIND A. MANE

M.B.B.S., D.P.H.A.F.I.H. (Mumbai)

Certifying Surgeon For Factories

Kolhapur District

Under Govt. of Maharashtra Factories Rule

Annexure – V

Photographs of Fire Extinguishers

FIRE EXTINGUISHERS INSTALLED AT KUMBHI KASARI SSK LTD., KUDITRE

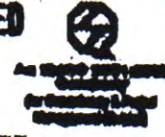


Annexure – VI

News Paper Advertisement



NATIONAL BUILDINGS CONSTRUCTION CORPORATION LIMITED
(A Government of India Enterprise)
CIN-L74899DL1960GOI003335



SBG Office (Police Works) Mahipalpur, New Delhi - 110037
e-mail: delhi2.nbcc@nic.in

NOTICE INVITING APPLICATION FOR EXPRESSION OF INTEREST

NIT No. NBCC/CGM/MAHIPALPUR/2015/07

Dated: 12.01.2015

NBCC invites Expression of Interest from reputed and experienced firms for Designing, Building, Testing, Commissioning and Operations of Tier III Data Centers for Govt. of India Project, in the manner as described in the detailed tender notice available on websites: www.tenderwizard.com/NBCC and www.eprocure.gov.in. Estimated Cost: Rs. 70 crore & Last date of submission: 10.02.2015. Corrigendum / Addendum if any, to this publication would appear only on above websites and not be published. COM (Reg.) 0944

पर्यावरण मंत्रालय, मुंबई एस.ई.एसी-३०९२/
सी.आर.३२९/टीसी-२ दि.१२ जानेवारी २०१५
नुसार मे. कुंभी कासारी सह. साखर कारखाना
लि. कुडीत्रे ता. करवीर जि. कोल्हापूर कारखान्यास
वाढीव गाळप क्षमता ३००० मे. टना वरून ५०००
मे. टन प्रतिदिन व १९.५ मेगावॅट कोजन प्रकल्पास
मंजूरी दिली असून सदरचे पत्र
<http://eemaharashtra.gov.in> या
वेबसाईट वरती उपलब्ध आहे.

महाराष्ट्र टाईम्स, कोल्हापूर, शनिवार, १६ जानेवारी १५

Annexure – VII

Environmental Status Report



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000024265

Submitted Date

10-07-2020

Company Information

Company Name

Kumbhi Kasari SSK.Ltd,Kuditre

Application UAN number

NA

Address

A/P- Kuditre,Tal- Karvir,Dist- Kolhapur

Plot no

274,275,276,277,278,279

Taluka

Dist- Kolhapur

Village

Kuditre

Capital Investment (In lakhs)

24309.54

Scale

L.S.I

City

Kolhapur

Pincode

416204

Person Name

Ashok R. Patil

Designation

Managing Director

Telephone Number

02312444222

Fax Number

02312444220

Email

md@kumbhisugar.com

Region

SRO-Kolhapur

Industry Category

Red

Industry Type

R12 Sugar (excluding Khandsari)

Last Environmental statement submitted online

yes

Consent Number

MPCB-CONSENT- 0000074922/
CR-2001000900 Dt.14/01/2020 ACdated
03.12.2018

Consent Issue Date

14/01/2020

Consent Valid Upto

31/07/2020

Product Information

Product Name

Sugar

Consent Quantity

66675

Actual Quantity

63364

UOM

MT/A

By-product Information

By Product Name

Bagasse

Consent Quantity

153499

Actual Quantity

139115

UOM

MT/A

Press mud

19294

17423

MT/A

Molasses

18375

19400

MT/A

Electricity (Co-gen)

19.5

15.50

Mwh

1) Water Consumption in m3/day

Water Consumption for Process

Consent Quantity in m3/day

1000

Actual Quantity in m3/day

370

Cooling

600

190

Domestic

75

75

All others	0	0
Total	1675	635

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	360	360	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Sugar	0.570	0.613	CMD

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Sugar Cane	7.62	7.77	Ton/Ton
Lime	0.0108	0.0115	Ton/Ton
Sulpher	0.0031	0.0036	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bagasse	132930	124733	MT/A

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
BOD	12.96	36	Nil	100	NA
COD	51.84	144	Nil	250	NA
Oil & Grease	0,0	0.0	Nil	10	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
TPM	1469	142	Nil	150	NA

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	1.06	0.89	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Boiler Ash	2600	2495	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
ETP Sludge	9	8	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	1.06	0.89	MT/A

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	1.06	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Boiler ash	2600	MT/A	NA

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Recycling of Condeset water	600	NA	NA	NA	7.0	NA

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
None	None	NA

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
None	None	NA
None	None	NA

Any other particulars in respect of environmental protection and abatement of pollution.

Particulars

NA

Name & Designation

Ashok R. Patil (Managing Director)



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2020

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000024291

Submitted Date

13-07-2020

Company Information

Company Name

Kumbhi Kasari SSK.Ltd,Kuditre

Application UAN number

NA

Address

A/P- Kuditre

Plot no

304,305 & 306

Taluka

Karvir

Village

Kuditre

Capital Investment (In lakhs)

2544.32

Scale

L.S.I

City

Kolhapur

Pincode

416204

Person Name

Ashok R. Patil

Designation

Managing Director

Telephone Number

02312444222

Fax Number

02312444220

Email

info@kumbhisugar.com

Region

SRO-Kolhapur

Industry Category

Red

Industry Type

R60 Distillery (molasses / grain /yeast based)

Last Environmental statement submitted online

yes

Consent Number

BO/CAC-CELL/UAN
No.0000075555/CR-2003000163

Consent Issue Date

03/03/2020

Consent Valid Upto

31/08/2020

Product Information

Product Name

Industrial Alcohol OR ENA

Consent Quantity

4380

Actual Quantity

4382

UOM

KL/A

By-product Information

By Product Name

Fusel Oil

Consent Quantity

8.76

Actual Quantity

0.30

UOM

KL/A

1) Water Consumption in m3/day

Water Consumption for Process

Consent Quantity in m3/day

265

Actual Quantity in m3/day

265

Cooling

67

67

Domestic

1.7

1.7

All others

0.0

0.0

Total

333.7

333.7

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	255	255	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Industrial Alcohol OR ENA	8.62	8.49	KL/A

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Molasses	3.65	3.62	Ton/Ton
Urea	0.00038	0.00091	Ton/Ton
Antifoam	0.0010	0.0011	Ton/Ton
Steam	4.95	4.66	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Steam Taken from Sugar factory	NA	NA	MT/A

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)**[A] Water**

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Compost	NA	NA	NA	NA	Spentwash is converted in to manure (Compost)

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
NA	NA	NA	NA	NA	Steam is taken from sugar factory

HAZARDOUS WASTES**1) From Process**

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	MT/A

SOLID WASTES**1) From Process**

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
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2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	NA	NA	MT/A

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
0	NA	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Yeast Sludge	100	MT/A	NA

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
Recycling of Condeset water	42	NA	NA	NA	5.0	NA

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Modification in distillation	Reduced effluent quantity	700

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
None	None	NA

Any other particulars in respect of environmental protection and abatement of pollution.

Particulars

Nil

Name & Designation

Ashok R. Patil (Managing Director)