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# KUMBHI - KASARI

## Sahakari Sakhar Karkhana Ltd., Kuditre

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

REF. NO.: 1998

DATE: 3 DEC 2020

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 April 2018 to September 2018 And October 2018 to March 2019 w.r.t 5000 TCD Sugar Factory, 19.5 MW Co-gen unit and 30 KLPD molasses based Distillery - **Kumbhi Kasari Sahakari Sakhar Karakhana 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 12<sup>th</sup> 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 27<sup>th</sup> 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 **Kumbhi Kasari Sahakari Sakhar Karakhana Ltd.**, located at Kuditre, Tal- karveer, Dist. Kolhapur. Maharashtra State.

Accordingly, we are submitting a six monthly compliance report for a period of April 2018 to September 2018 and October 2018 to March 2019.

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

Thanking you,  
Yours faithfully,

(Ashok R. Patil)  
Managing Director

21/8/20

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# **Enclosure – I**

**Government of Maharashtra**

SEAC-3012/ CR-321/TC-2  
Environment department  
Room No. 217, 2<sup>nd</sup> floor,  
Mantralaya Annex,  
Mumbai- 400 032.  
Dated: 12<sup>th</sup> 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 78<sup>th</sup> 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 80<sup>th</sup> 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><b>SUGAR MANUFACTURING PROCESS</b></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 &amp; bullock carts. After the weighment of cane it is unloaded by cane unloader on feeder table &amp; dump in to cane carrier. Preparation of cane is done in to fine pieces by cane kicker, leveler &amp; 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 <math>\text{Ca(OH)}_2</math> &amp; <math>\text{SO}_2</math> gas to remove the non sugars &amp; coloring matter. This Sulphur juice is further heated of to 100 °C to 105 °C &amp; Sulphur juice transfer to clarifier for settling of impurities like suspended &amp; colloidal. From clarifier clear juice &amp; 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 <math>\text{SO}_2</math> 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 &amp; 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 &amp; Cold air blowers. Dried sugar crystals separated grade wise from sugar grader &amp; graded sugar filled in 'A' Twill Gunny bags &amp; 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 &amp; 100 TPH at 21 kg/cm<sup>2</sup> &amp; 87 kg/cm<sup>2</sup> pressure &amp; 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&amp;M cost)</p> <p>Capital Cost : 40 Lakhs      O &amp; M Cost : 10 Lakhs</p>
Total Water Requirement	<p>Total water requirement:</p> <p>Fresh water (CMD) : 4800 one time &amp; daily 575 m<sup>3</sup>/day</p> <p>Recycled water (CMD) : 3685 m<sup>3</sup>/day</p> <p>Use of the water:</p> <p>Process (CMD) : 370 m<sup>3</sup>/day.</p> <p>Cooling water (CMD) : 100 m<sup>3</sup>/day.</p> <p>DM Water (CMD): 125 m<sup>3</sup>/day.</p> <p>Drinking (CMD) : 75 m<sup>3</sup>/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 m<sup>3</sup>/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 4mission4 ristic	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 <sup>3</sup> /Day <input type="checkbox"/> Capacity of the ETP (CMD) :- 1500 m <sup>3</sup> /day Amount of treated effluent recycled (CMD): 3685 m <sup>3</sup> /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 <sub>2</sub> , NO <sub>x</sub> , 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 <sub>2</sub>	Boiler	0.012	0.000071	
	3	NO <sub>x</sub>	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 <sub>2</sub> , etc)	Emission standard limit (mg/Nm <sup>3</sup> )	Proposed limit (mg/Nm <sup>3</sup> )	MPCB consent (mg/Nm <sup>3</sup> )			
	SPM	100	150	150			
Ambient Air Quality Data	Pollutant	Permissible standard	Proposed concentration (in ug/m <sup>3</sup> )	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		

		Monitoring and Management		
	5	Occupational Health & Safety	10.0	50.00
	6	Green Belt	2.00	18.94
	7	Rain Water Harvesting	2.00	12.00
		Total	49.25	425.94


3. The proposal has been considered by SEIAA in its 80<sup>th</sup> meeting & decided to accord environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions :

**General Conditions for Pre- construction phase:-**

- (i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.
- (ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.
- (iii) Regular monitoring of the air quality, including SPM & SO<sub>2</sub> 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.
- (iv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.
- (v) Proper Housekeeping programmes shall be implemented.
- (vi) 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.
- (vii) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)
- (viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.
- (ix) Arrangement shall be made that effluent and storm water does not get mixed.
- (x) 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.
- (xi) 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.
- (xii) 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.
- (xiii) Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.

- (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 1<sup>st</sup> June & 1<sup>st</sup> 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, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectorai 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 31<sup>st</sup> 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, 1<sup>st</sup> 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 )



## **Enclosure – II**

महाराष्ट्र शासन

R.T.A.D.

Environment Department

क्रमांक: एम्‌ए (एन०) 1087/141/

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 and 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.

**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 12<sup>th</sup> 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 : April 2018 to September 2018 And October 2018 to  
for Period March 2019

**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, Gagan Bavada, 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 12<sup>th</sup> January 2015. Refer Copy of EC Enclosed at **Enclosure- I**

**Six monthly (Period April 2018 to September 2018 And October 2018 to March 2019) 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 mentioned in Environmental Clearance (EC) letter SEAC-3012/CR-32/TC-2 dated 12.01.2015 for period from **April 2018 to September 2018 And October 2018 to March 2019** presented as follows-

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
<b>A</b>	<b>General Conditions</b>	
1	<b>Condition No. 1</b> No additional land shall be used / acquired for any activity of the project without obtaining proper permission	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. Refer plot layout enclosed at <b>Annexure-I</b> .
2	<b>Condition No. 2</b> 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, presmud and ash during crushing season. Further, Molasses, pressmud, ash is transported to disposal sites in covered vehicles.
3	<b>Condition No. 3</b> Regular monitoring of the air quality, including SPM & SO <sub>2</sub> 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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> . Further monitoring reports are regularly submitted to MPCB. Refer <b>Annexure-II</b> for latest ambient air quality monitoring reports.
4	<b>Condition No. 4</b> 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	<b>Condition No. 5</b> Proper Housekeeping programmers shall be implemented.	The compliance under above condition is being done.
6	<b>Condition No. 6</b> 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	<b>Condition No. 7</b> A stack of adequate height based on DG set capacity shall	Two no. of DG sets are provided under existing unit. Diesel @ 100 lit/Hr. is used as fuel during only power

	be provided for control and dispersion of pollutant from DG set. (If applicable)	failure, DG sets are operated. Stack of 7 M height above the roof level is provided along with silencer.
8	<b>Condition No. 8</b> 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 M3. This water stored in 5000cum capacity holding tank, same is used to increase ground water table and also used for cleaning and miscellaneous.
9	<b>Condition No. 9</b> 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	<b>Condition No. 10</b> 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. Refer <b>Annexure-II</b> for monitoring reports w.r.t same.
11	<b>Condition No. 11</b> 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 <b>Annexure –II</b> .
12	<b>Condition No. 12</b> 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.	Please refer Point No. 11.
13	<b>Condition No. 13</b> Green belt shall be developed & maintained around the plant periphery. Green Belt	The total plot area under Sugar & co-gen and distillery is 2, 38,210.00 Sq.M Green Belt developed on 78610 Sq. M. area, comprising 2005 no. of trees. The work of

	Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	additional 3000 no. of trees is under process. <b>Annexure - III</b> showing photographs for existing green belt developed and list of trees planted onsite.
14	<b>Condition No. 14</b> 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	<b>Condition No. 15</b> 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 <b>Annexure IV</b> .
16	<b>Condition No. 16</b> 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. Refer <b>Annexure V</b> for photographs of fire extinguishers provided on site.
17	<b>Condition No. 17</b> 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	<b>Condition No. 18</b> The company shall undertake following Waste Minimization Measures:	Minimum quantities of chemicals are used in process.



	<ul style="list-style-type: none"> <li>• Metering of quantities of active ingredients to minimize waste.</li> <li>• Reuse of by- products from the process as raw materials or as raw material substitutes in other process.</li> <li>• Maximizing Recoveries.</li> <li>• Use of automated material transfer system to minimize spillage.</li> </ul>	
19	<b>Condition No. 19</b> 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	<b>Condition No. 20</b> 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	<b>Condition No. 21</b> 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	<b>Condition No. 22</b> 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><b>Condition No. 23</b></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 &amp; 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>O &amp; M Cost (Rs.) in Crore</th></tr><tr><td>1.</td><td>Air Pollution Control - APC</td><td>2.0</td><td>0.5</td></tr><tr><td>2.</td><td>Water Pollution Control - ETP</td><td>0.5</td><td>0.2</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 &amp; Management</td><td>0.05</td><td>0.02</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 colspan="2">Total</td><td>2.76</td><td>0.865</td></tr></table>	Sr. No.	Description	Capital Cost (Rs.) in Crore	O & M Cost (Rs.) in Crore	1.	Air Pollution Control - APC	2.0	0.5	2.	Water Pollution Control - ETP	0.5	0.2	3.	Noise Pollution Control	0.2	0.1	4.	Environmental Monitoring & Management	0.05	0.02	5.	Occupational Health	0.05	0.02	6.	Green Belt	0.01	0.025	7.	Others (Pl. Specify)	--	--	Total		2.76	0.865
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7.	Others (Pl. Specify)	--	--																																			
Total		2.76	0.865																																			
24	<p><b>Condition No. 24</b></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 <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a></p>	<p>The compliance under above condition has already been done and copies of the newspaper advertisement have been enclosed at <b>Annexure - VI</b> that may please be referred.</p>																																				
25	<p><b>Condition No. 25</b></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.	The condition is being followed. Industry regularly submits the six monthly compliance reports to regional office.
26	<b>Condition No. 26</b> 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.	The compliance under above condition is being followed.
27	<b>Condition No. 27</b> 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, SO <sub>2</sub> , NO <sub>x</sub> , (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.	The compliance under above condition is being followed.
28	<b>Condition No. 28</b> The project proponent shall also submit six monthly reports on the status of	The compliance under above condition has already been done.

	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.	
29	<p><b>Condition No. 29</b></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>Environmental Audit Report and Hazardous Waste Returns are submitted regularly to respective MPCB office and records are maintained for further reference. Please refer copies of same enclosed at <b>Annexure VII</b>.</p>

**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 27<sup>th</sup> October 1988 for to 30 KLPD molasses based distillery.
3. Location: District & State/UT : Dist.: Kolhapur, State.: Maharashtra
4. Address for Correspondence : Kumbhi Kasari Sahakari Sakhar Karakhana Ltd., Kuditre, Tal- karveer, Dist. Kolhapur, Maharashtra.
5. Six Monthly Compliance for Period : April 2018 to September 2018 And October 2018 to March 2019

**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 27<sup>th</sup> October 1988. Refer Copy of EC Enclosed at **Enclosure I**

### **Six monthly (Period April 2018 to September 2018 And October 2018 to March 2019) Compliance report for 30 KLPD Molasses based Distillery by 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 27<sup>th</sup> October 1988 for period **April 2018 to September 2018 And October 2018 to March 2019** presented as follows -

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
<b>A</b>	<b>GENERAL CONDITIONS</b>	
1	<b>Condition No. 1</b> 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. ii) Composting shall be executed in a scientific manner as will be prescribed by MPCBin its consent conditions	The spent wash to the tune of 255 M <sup>3</sup> /day is generated from existing distillery operations. This spentwash 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 to mix the spentwash with press mud & filler material. Monitoring of spentwash

	<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>after digester is regularly carried by industry.</p> <p>Total 5 Nos. Storage Tanks with 30 Days Storage capacities (10800 M<sup>3</sup>) are provided on site. The same has been designed as per CPCB’s technical guidelines. The details of 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>Refer <b>Annexure VIII</b> for photographs of Molasses storage tank, Bio-methanation plant &amp; composting site.</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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		Total holding capacity	10800																											
2	<p><b>Condition No. 2</b></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><b>Condition No. 3</b></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 &amp; co-gen and distillery is 238210.00 M<sup>2</sup> and green Belt Development area is 78610.00 M<sup>2</sup> comprising 2005 no. of trees. Additional 3000 no. of trees would be planted. The work is under process. <b>Annexure III</b> showing photographs of existing green belt developed and list of trees planted onsite.</p>																												

# **Annexure – I**

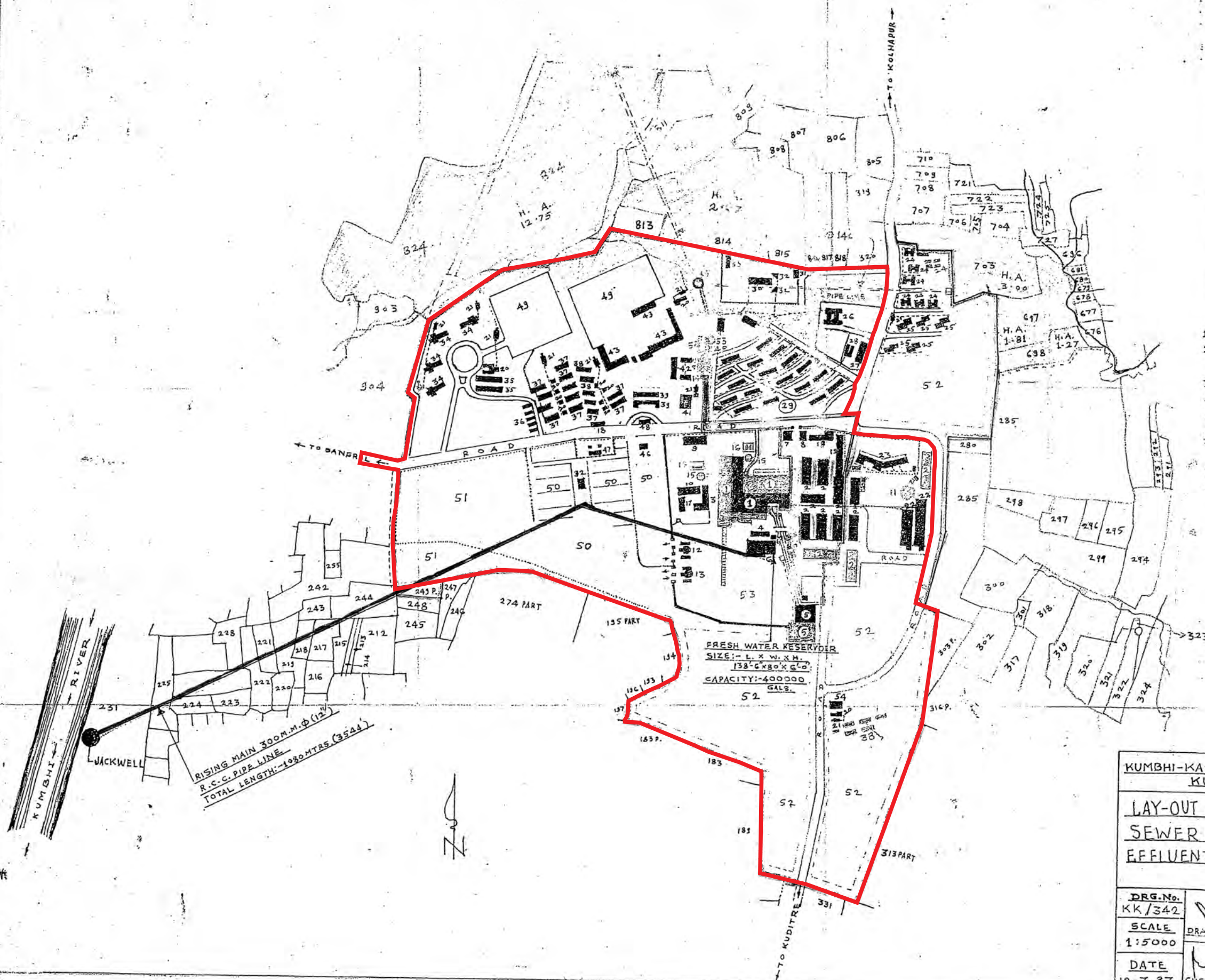
## **Plot Layout**



# REFERENCE

SR.No.	NAME	SR.No.	NAME
1	MAIN FACTORY	23	MAIN OFFICE
2	SUGAR GODOWN	24	B-1 TYPE BUNGLOW
3	GENERAL STORE	25	B-TYPE BUNGLOW
4	SULPHUR STORE	26	DISPENSARY
5	SPRAY POND	27	WORK SHOP
6	WATER RESERVOIR	28	WASHING PLACE RAMP
7	TIME & SECURITY OFFICE	29	INDUSTRIAL HOUSING
8	GODOWN KEEPER OFFICE	30	SCHEME 18 BLOCK
9	FERTILISER GODOWN	31	DAIRY SHED
10	STORE GODOWN	32	DAIRY OFFICE
11	MOLASSES STEEL TANK	33	WATER TANK
12	TRUCK WEIGH BRIDGE	34	FODDER STORE
13	BULLOCK W. WEIGH BRI.	35	VIDHAY NIKETAN DOR. BLOCK
14	OIL & GREASE TRAPS (E.T.P.)	36	-DO- CLASS ROOM CHAL.
15	CHIMNEY	37	-DO- TEMP. CHALI
16	FURNACE OIL TANK	38	SEASONAL E.T. TYPE CHALI No. 14
17	STORE TUBULAR SH.	39	ONE ROOM TENEMENTS
18	TEMP. SHED	40	WATCHMAN CHALI
19	GARAGE OFFICE	41	PUMP HOUSE (E.T.P.)
20	LABORATORY & WASHING	42	CANTEN REST & LUNCH
21	SEPTIC TANK	43	TEMP. SHOP SHEDS
22	MOLASSES TANK	44	SHRI RAM HIGH SCHOOL
43	PLAY GROUND	45	AREATED LAGOON
50	CANE YARD	46	WELL (E.T.P.)
51	PRESSMAD & COMPOST	47	CANE GATE
52	SPACE FOR PROPOSED CONSTRUCTION	48	PETROL PUMP (SUNGH)
56	AREATION TANK (E.T.P.)	49	BUS-STOP (K.M.T.)
		53	CLARIFIER (E.T.P.)
		54	POLICE QUARTER
		55	WATER FILTER PLANT

- 1-BOUNDARY OF FACTORY LAND SHOWN THUS
- 2-STRUCTURES ALREADY CONSTRUCTED SHOWN THUS
- 3-PROPOSED WORK SPACE SHOWN THUS
- 4-WATER SUPPLY LINES SHOWN THUS
- 5-SEWER DRAINS SHOWN THUS
- 6-LAND TO BE IRRIGATED BY DISPOSED EFFLUENTS SHOWN THUS
- 7-STORM WATER DRAINS SHOWN THUS
- 8-EXISTING FENCING



KUMBHI-KASARI SAHAKARI SAKHAR KARKHANA LIMITED  
KUDITRE, TAL-KARVEER, DIST. KOLHAPUR

LAY-OUT OF WATER SUPPLY, STORM DRAINS,  
SEWER DRAINS FOR DOMESTIC AND TRADE  
EFFLUENTS LOCATION OF EFFLUENT AND ITS  
DISPOSAL

DRG.No. KK/342	DRAWN BY	CHECKED BY	CIVIL ENGINEER	CHIEF CHEMIST	MANAGING DIRECTOR
SCALE 1:5000					
DATE 12-7-87					



## PHOTOGRAPHS OF EXISTING UNIT OF KUMBHI KASARI SSK LTD., KUDITRE



# **Annexure – II**

## **Monitoring Reports**



# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/AMR/84

## AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/A-390/11/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Near Main Gate
02) Sampling Procedure	IS 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	24/11/2018
05) Time of Sampling	10:45 AM
06) Date of Sample Received in Lab	26/11/2018
07) Analysis Start Date	26/11/2018
08) Ambient Temperature	22°C
09) Dry Bulb Temperature	22°C
10) Wet Bulb Temperature	16°C
11) Relative Humidity	48% RH

### RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	65.60	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	38.82	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.10	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.32	≤ 80	IS 5182(Part 6):2006
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	< 19.1	≤ 400	Method 401 Air sampling and Analysis 3 <sup>rd</sup> Edition
6	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.03	≤ 04	GC FID Methanizer Method
7	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.8	≤ 180	Method 411 Air sampling and Analysis 3 <sup>rd</sup> Edition
8	Lead (Pb)	µg/m <sup>3</sup>	< 0.05	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m <sup>3</sup>	< 0.04	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m <sup>3</sup>	< 0.006	≤ 20	APHA 3120 B
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.01	≤ 05	IS 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/ m <sup>3</sup>	BDL	≤ 01	IS 5182 Part 12:2004

UOM – Unit of Measurement.

"The results pertain to tested portion of sample"

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

Prepared By

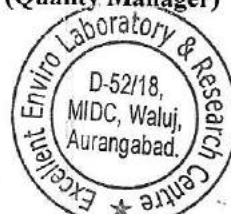
Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)



AN "ENVIRONMENTAL LABORATORY"

Recognised by MOEF & CC, New Delhi, Gazette Notification S.O. 388 (E) Dated February 10, 2017

#### REGISTERED OFFICE :

D-52/18, MIDC Waluj,  
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OHSAS 18001: 2007  
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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/AMR/84

## AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	EEL/A-391/11/2018-19
	Date of Reporting
	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Near Cane Yard
02) Sampling Procedure	IS 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	24/11/2018
05) Time of Sampling	10:55 AM
06) Date of Sample Received in Lab	26/11/2018
07) Analysis Start Date	26/11/2018
08) Ambient Temperature	24°C
09) Dry Bulb Temperature	24°C
10) Wet Bulb Temperature	18°C
11) Relative Humidity	48% RH

### RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	63.10	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	32.64	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	16.84	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.12	≤ 80	IS 5182(Part 6):2006
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	< 19.2	≤ 400	Method 401 Air sampling and Analysis 3 <sup>rd</sup> Edition
6	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.04	≤ 04	GC FID Methanizer Method
7	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.26	≤ 180	Method 411 Air sampling and Analysis 3 <sup>rd</sup> Edition
8	Lead (Pb)	µg/m <sup>3</sup>	< 0.05	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m <sup>3</sup>	< 0.07	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m <sup>3</sup>	< 0.006	≤ 20	APHA 3120 B
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	< 0.01	≤ 05	IS 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/ m <sup>3</sup>	BDL	≤ 01	IS 5182 Part 12:2004

UOM – Unit of Measurement.

"The results pertain to tested portion of sample"

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

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

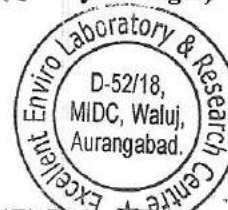
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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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-392 to N-393/11/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### 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	24/11/2018
05) Time of Sampling	11:15 AM

### RESULTS

Sr. No.	Test Location	I.D. No.	UOM	DayTime	Night Time	MPCB Limit
1	Near Main Gate	N-392	dB (A)	64.05	59.10	During Day time= 75 dB(A) During Night Time= 70dB(A)
2	Near Cane Yard	N-393	dB (A)	64.77	58.62	

Remarks: The Noise Level is within MPCB normal Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

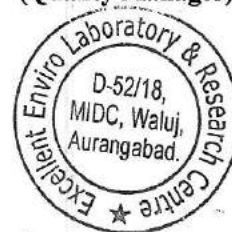
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Format No.:EELRC/F/SMR/84

## SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-394/11/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### 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	24/11/2018
05) Time of Sampling	11:45AM
06) Date of Received in Lab	26/11/2018
07) Analysis Start Date	26/11/2018
08) Material of Stack	MS
09) Stack Height	80 Meter
10) Type of Stack	Round
11) Dimension of Stack	2.4meter
12) Flue Gas Temperature	321 <sup>0</sup> K
13) Differential Pressure	3.1mmWG
14) Velocity	5.98 m/sec
15) Stack Area	4.9062m <sup>2</sup>
16) Gas volume	98052.83 Nm <sup>3</sup> /hr
17) Fuel Used	Diesel

### RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm <sup>3</sup>	92.10	≤ 150
2	Sulphur Dioxide	mg/Nm <sup>3</sup>	2.58	-
3	Sulphur Dioxide	Kg/day	6.07	-
4	Oxides of Nitrogen	mg/Nm <sup>3</sup>	14.8	-

"The results pertain to tested portion of sample"

Remark: Total particulate matter results is within MPCB Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/SMR/84

## SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-395/11/2018-19
M/s. KumbhiKasariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### 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	24/11/2018
05) Time of Sampling	12:15 PM
06) Date of Received in Lab	26/11/2018
07) Analysis Start Date	26/11/2018
08) Material of Stack	MS
09) Stack Height	30 Meter
10) Type of Stack	Round
11) Dimension of Stack	3.0meter
12) Flue Gas Temperature	314 <sup>0</sup> K
13) Differential Pressure	3.2 mmWG
14) Velocity	6.0 m/sec
15) Stack Area	7.065m <sup>2</sup>
16) Gas volume	144828.0 Nm <sup>3</sup> /hr
17) Fuel Used	Diesel

### RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm <sup>3</sup>	64.52	≤ 150
2	Sulphur Dioxide	mg/Nm <sup>3</sup>	4.2	-
3	Sulphur Dioxide	Kg/day	14.98	-
4	Oxides of Nitrogen	mg/Nm <sup>3</sup>	12.54	-

"The results pertain to tested portion of sample"

Remark: Total particulate matter results is within MPCB Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

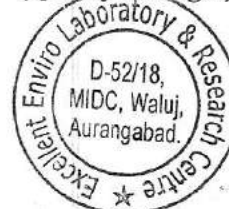
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Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
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Format No.: EELRC/F/WAR/84

## WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-396/11/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	ETP Inlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	13:00 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	Ph	-	5.57	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	7440.0	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	1663.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	4162.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	8.5	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	1274.97	APHA 4500 - ClB.
7	Sulphates	mg/ltr	1933.6	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	1448.0	IS 3025 (Part 44): 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

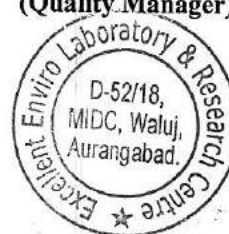
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Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

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Ms. Karishma Marwadi  
(Quality Manager)



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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-397/11/2018-19
M/s. KumbhiKasariSakharKarkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	ETP Outlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	13:10 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	pH	-	6.31	5.5 to 9.0	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	218.0	250.00	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	86.0	100.00	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1034.0	2100.00	APHA 2540 - C
5	Oil & Grease	mg/ltr	< 1	10.00	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	384.97	600.00	APHA 4500 - ClB.
7	Sulphates	mg/ltr	610.0	1000.00	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	72.0	100.00	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

"The results pertain to tested portion of sample"

Remark - All aboveparameter results are within MPCB limit.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

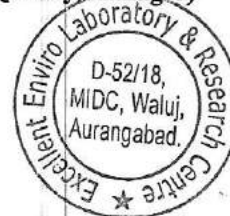
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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Format No.:EELRC/F/WAR/84

## DRINKING WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-398/11/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### 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	24/11/2018
07) Time of Sampling	13:30 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### 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	0.24	<1	NTU	IS : 3025 (Part 10):1984
3.	TDS	320.8	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.020	--	µS/cm	IS : 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.6	6.5 to 8.5	--	IS : 3025 (Part 11):1984
7.	Total Hardness	148.0	<200	mg/ltr	IS : 3025 (Part 21):1983
8.	Total Alkalinity	120.4	<200	mg/ltr	IS : 3025 (Part 13):1964
9.	Sulphate	90.0	<200	mg/ltr	IS : 3025 (Part 24):1986
10.	Nitrate	1.0	<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	82.60	<250	mg/ltr	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	56.18	<75	mg/ltr	IS : 3025 (Part 40):1991
15.	Magnesium (as Mg)	26.64	<30	mg/ltr	IS : 3025 (Part 46)
16.	Chemical Oxygen Demand	20.8	-	mg/ltr	IS:3025 (Part 58) 2006
17.	Biochemical Oxygen Demand, BOD (3 days @27°C)	7.0	-	mg/ltr	IS 3025 (Part 44) : 1993
18.	Sodium as Na	62.6	-	mg/ltr	IS:3025 (Part 45) 1993
19.	Potassium as K	3.4	-	mg/ltr	IS:3025 (Part 45) 1993

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# Excellent Enviro Laboratory & Research Center

3

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

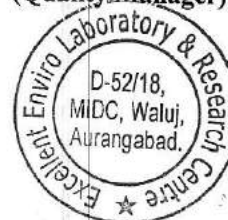
Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)



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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-399/11/2018-19
M/s. KumbhiKasariSakharKarkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Karkhana Site - Well Water- 01 (Mahadev Mali)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	13:50 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### 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	0.76	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	410.8	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.026	--	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	118.6	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	142.0	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	154.8	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.38	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	90.10	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	70.6	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	18.4	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

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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-400/11/2018-19
M/s. KumbhiKasariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Karkhana Site -Well Water – 02 (KrishnathPatil)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	14:00 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.1	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.82	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	484.0	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.034	--	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	174.2	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	118.6	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	134.8	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.1	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.40	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	99.20	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	71.4	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	22.8	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

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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-401/11/2018-19
M/s. KumbhiKasariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 01 (JayvantShinde)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	14:20 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.4	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.94	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	464.20	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.28	--	µS/cm	IS 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.6	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	184.64	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	176.40	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	104.0	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.4	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.22	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	142.80	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	54.46	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	16.86	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

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Ms. Karishma Marwadi  
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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/34

## WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-402/11/2018-19
M/s. KumbhiKasariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 02 (KrishmatBuva)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	14:30 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.6	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.86	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	470.42	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.18	--	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	174.8	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	162.4	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	134.8	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.0	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.44	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	199.60	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	58.68	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	20.50	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

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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-403/11/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 03 (ShomrooBuva)
02) Sampling Procedure	-
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	24/11/2018
05) Time of Sampling	14:40 PM
06) Date of Received in lab	26/11/2018
07) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.4	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.89	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	434.2	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.22	--	µS/cm	IS 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.6	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	156.4	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	130.2	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	68.6	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.4	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.52	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	130.0	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	68.4	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	28.2	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)

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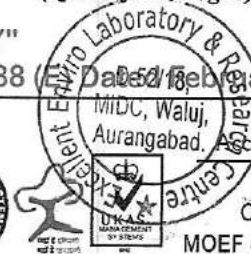
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## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-404/11/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Spent Wash
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	15:00 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.62	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	120264.0	IS 3025 (Part 58): 2006
3	Total Solids (T.S.)	mg/ltr	12984.0	APHA 2540 - D
4	K %	%	2.1	APHA 3500 -K
5	Chlorides	mg/ltr	6592.0	APHA 4500 -ClB.
6	Sulphates	mg/ltr	2284.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	41421.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

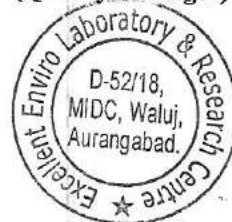
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Ms. Karishma Marwadi  
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## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-405/11/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Spray Pond
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	15:10 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	6.4	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	234.0	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	260.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1472.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	BDL	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	127.60	APHA 4500 - ClB.
7	Sulphates	mg/ltr	199.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	52.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

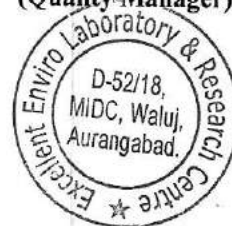
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(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)


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Recognised by MOEF &amp; CC, New Delhi, Gazette Notification S.O. 388 (E) Dated February 10, 2017

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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-406/11/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	03/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Digester Outlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	24/11/2018
07) Time of Sampling	15:20 PM
08) Date of Received in lab	26/11/2018
09) Analysis Start Date	26/11/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.2	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	28775.0	IS 3025 (Part 58): 2006
3	Total Solids (T.S.)	mg/ltr	8294.0	APHA 2540 - D
4	K %	%	1.1	APHA 3500 - K
5	Chlorides	mg/ltr	4046.0	APHA 4500 - ClB.
6	Sulphates	mg/ltr	1508.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	6922.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

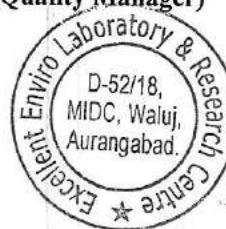
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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Accreditation & Approvals

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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/AMR/84

## AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-600/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Tal kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Near Main Gate
02) Sampling Procedure	IS 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	15/12/2018
05) Time of Sampling	10:45 AM
06) Date of Sample Received in Lab	17/12/2018
07) Analysis Start Date	17/12/2018
08) Ambient Temperature	24°C
09) Dry Bulb Temperature	24°C
10) Wet Bulb Temperature	18°C
11) Relative Humidity	44% RH

### RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	62.84	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	36.30	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.80	≤ 80	IS: 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	26.10	≤ 80	IS: 5182 (Part 6):2006
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	19.0	≤ 400	Method 401 Air sampling and Analysis 3 <sup>rd</sup> Edition
6	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.02	≤ 04	GC FID Methanizer Method
7	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.4	≤ 180	Method 411 Air sampling and Analysis 3 <sup>rd</sup> Edition
8	Lead (Pb)	µg/m <sup>3</sup>	0.04	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/m <sup>3</sup>	0.06	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/m <sup>3</sup>	0.005	≤ 20	APHA 3120 B
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.02	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/m <sup>3</sup>	BDL	≤ 01	IS: 5182 Part 12:2004

UOM - Unit of Measurement.

"The results pertain to tested portion of sample"

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

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/AMR/84

## AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-601/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Near Cane Yard
02) Sampling Procedure	IS 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	15/12/2018
05) Time of Sampling	10:55 AM
06) Date of Sample Received in Lab	17/12/2018
07) Analysis Start Date	17/12/2018
08) Ambient Temperature	24°C
09) Dry Bulb Temperature	24°C
10) Wet Bulb Temperature	18°C
11) Relative Humidity	44% RH

### RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	62.54	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	29.72	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.10	≤ 80	IS: 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.90	≤ 80	IS: 5182(Part 6):2006
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	19.1	≤ 400	Method 401 Air sampling and Analysis 3 <sup>rd</sup> Edition
6	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.04	≤ 04	GC FID Methanizer Method
7	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.4	≤ 180	Method 411 Air sampling and Analysis 3 <sup>rd</sup> Edition
8	Lead (Pb)	µg/m <sup>3</sup>	0.05	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m <sup>3</sup>	0.07	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m <sup>3</sup>	0.006	≤ 20	APHA 3120 B
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.01	≤ 05	IS: 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/ m <sup>3</sup>	BDL	≤ 01	IS: 5182 Part 12:2004

UOM – Unit of Measurement.

"The results pertain to tested portion of sample"

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

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

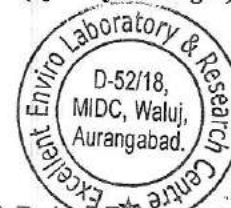
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Ms. Pradnya Hekde  
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Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/NMR/34

## AMBIENT NOISE MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/N-602 to N-603/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### 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	15/12/2018
05) Time of Sampling	11:15 AM

### RESULTS

Sr. No.	Test Location	I.D. No.	UOM	DayTime	Night Time	MPCB Limit
1	Near Main Gate	N-602	dB (A)	62.5	57.6	During Day time= 75 dB(A) During Night Time= 70dB(A)
2	Near Cane Yard	N-603	dB (A)	64.1	58.2	

Remarks: The Noise Level is within MPCB normal Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

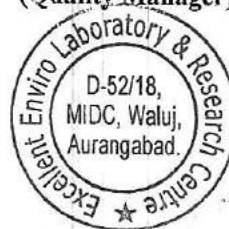
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Ms. Pradnya Hekde  
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Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/SMR/84

## SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Report No. EEL/ABD/S-604/12/2018-19
Date of Reporting 24/12/2018	

### 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	15/12/2018
05) Time of Sampling	11:45AM
06) Date of Received in Lab	17/12/2018
07) Analysis Start Date	17/12/2018
08) Material of Stack	MS
09) Stack Height	80 Meter
10) Type of Stack	Round
11) Dimension of Stack	2.4meter
12) Flue Gas Temperature	325 <sup>0</sup> K
13) Differential Pressure	3.2 mm WG
14) Velocity	6.12m/sec
15) Stack Area	4.9062m <sup>2</sup>
16) Gas volume	99113.33 Nm <sup>3</sup> /hr
17) Fuel Used	Diesel

### RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm <sup>3</sup>	90.46	≤ 150
2	Sulphur Dioxide	mg/Nm <sup>3</sup>	1.90	-
3	Sulphur Dioxide	Kg/day	4.51	-
4	Oxides of Nitrogen	mg/Nm <sup>3</sup>	12.62	-

"The results pertain to tested portion of sample"

Remark: Total particulate matter results is within MPCB Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

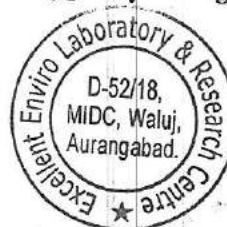
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/SMR/84

## SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-605/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre, Tal kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### 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	15/12/2018
05) Time of Sampling	12:15 PM
06) Date of Received in Lab	17/12/2018
07) Analysis Start Date	17/12/2018
08) Material of Stack	MS
09) Stack Height	30 Meter
10) Type of Stack	Round
11) Dimension of Stack	3.0meter
12) Flue Gas Temperature	318 <sup>0</sup> K
13) Differential Pressure	3.2 mm WG
14) Velocity	6.05m/sec
15) Stack Area	7.065m <sup>2</sup>
16) Gas volume	144197.98Nm <sup>3</sup> /hr
17) Fuel Used	Diesel

### RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm <sup>3</sup>	62.96	≤ 150
2	Sulphur Dioxide	mg/Nm <sup>3</sup>	4.0	-
3	Sulphur Dioxide	Kg/day	13.84	-
4	Oxides of Nitrogen	mg/Nm <sup>3</sup>	11.72	-

"The results pertain to tested portion of sample"

Remark: Total particulate matter results is within MPCB Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

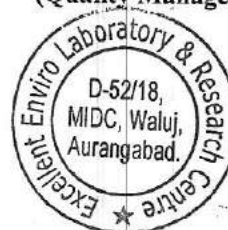
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Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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Format No.:EELRC/F/WAR/84

## WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-606/12/2018-19
M/s. Kumbhi Kasari Sakhari Sakhar Karkhana, Tal-Kaveer, Kuditre, Tal kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	ETP Inlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	13:00 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.24	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	7286.0	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	1540.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	4082.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	8.0	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	1304.6	APHA 4500 - Cl <sup>-</sup> B.
7	Sulphates	mg/ltr	1989.2	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	1628.6	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

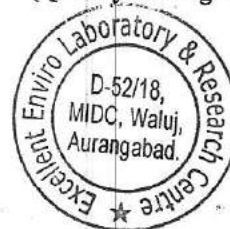
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Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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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-607/12/2018-19
M/s. Kumbhi Kasari Sakhari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	ETP Outlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	13:10 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	pH	-	6.4	5.5 to 9.0	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	234.0	250.00	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	80.0	100.00	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1120.0	2100.00	APHA 2540 - C
5	Oil & Grease	mg/ltr	< 1	10.00	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	348.0	600.00	APHA 4500 - Cl <sup>-</sup> B.
7	Sulphates	mg/ltr	656.2	1000.00	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	78.0	100.00	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

"The results pertain to tested portion of sample"

Remark - All aboveparameter results are within MPCB limit.

Prepared By

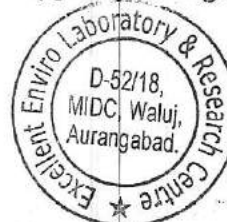
Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)



### AN "ENVIRONMENTAL LABORATORY"

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#### REGISTERED OFFICE :

D-52/18, MIDC Waluj,  
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#### MUMBAI OFFICE

Dhawalgiri Co-op, Hsg. Society,  
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#### Accreditation & Approvals

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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/WAR/84

## DRINKING WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-608/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### 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	15/12/2018
07) Time of Sampling	13:30 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.2	<5	Hazen	IS : 3025 (Part 4):1983
2.	Turbidity	0.34	<1	NTU	IS : 3025 (Part 10):1984
3.	TDS	365.8	<500	ppm	IS : 3025 (Part 16):1984
4.	EC	0.022	--	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	156.0	<200	mg/ltr	IS : 3025 (Part 21):1983
8.	Total Alkalinity	134.6	<200	mg/ltr	IS : 3025 (Part 13):1964
9.	Sulphate	96.2	<200	mg/ltr	IS : 3025 (Part 24):1986
10.	Nitrate	1.1	<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	98.4	<250	mg/ltr	IS : 3025 (Part 32):1988
14.	Calcium (as Ca)	60.4	<75	mg/ltr	IS : 3025 (Part 40):1991
15.	Magnesium (as Mg)	22.8	<30	mg/ltr	IS : 3025 (Part 46)
16.	Chemical Oxygen Demand	18.2	-	mg/ltr	IS:3025 (Part 58) 2006
17.	Biochemical Oxygen Demand, BOD (3 days @27°C)	6.0	-	mg/ltr	IS 3025 (Part 44) : 1993
18.	Sodium as Na	58.4	-	mg/ltr	IS:3025 (Part 45) 1993
19.	Potassium as K	3.1	-	mg/ltr	IS:3025 (Part 45) 1993

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# Excellent Enviro Laboratory & Research Center

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

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)



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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-609/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Karkhana Site -Well Water- 01 (Mahadev Mali)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	13:50 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
<b>Physical Parameter</b>					
1.	Colour	1.2	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.64	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	436.8	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.024	--	µS/cm	IS 3025 (Part 14):1984
<b>Chemical Parameter</b>					
6.	pH	7.5	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	146.2	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	136.4	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	162.6	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.1	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.30	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	92.10	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	72.30	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	19.82	<30	mg/lit	IS 3025 (Part 46)
<b>Microbiological Parameter</b>					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karisra Marwadi  
(Quality Manager)

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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-610/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Karkhana Site -Well Water – 02 (Krishnath Patil)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	14:00 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.1	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.78	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	470.0	<500	Ppm	IS 3025 (Part 16):1984
4.	EC	0.036	--	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	168.8	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	162.2	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	126.4	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.44	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	92.0	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	68.6	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	24.2	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

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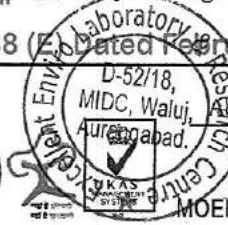
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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/WAR/84

## WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-611/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 01 (Dattatray Patil)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	14:20 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.6	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.92	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	476.2	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.42	--	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	188.6	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	146.8	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	112.6	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<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	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	128.6	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	68.2	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	18.8	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

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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-612/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 02 (Pradip Khorade)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	14:30 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.2	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.74	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	478.4	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.34	--	µS/cm	IS 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.6	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	182.6	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	158.4	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	130.2	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.0	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.44	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	190.6	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	56.2	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	18.6	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

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(Quality Manager)

AN "ENVIRONMENTAL LABORATORY"

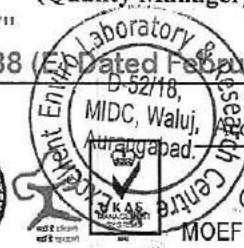
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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-613/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 03 (Harigon Well)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	14:40 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.2	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.84	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	474.6	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.34	--	µS/cm	IS 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.6	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	166.8	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	124.6	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	64.8	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.50	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	152.0	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	72.6	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	26.4	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/CAR/84

## COMPOST SAMPLE ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/C-614/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Compost
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	14:50 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	Result	Unit(s)
1.	pH ( 1:5 Suspension )	7.2	---
2.	Moisture	30.66	%
3.	Colour	Blackish Brown	--
4.	Odour	Absence of Foul Smell	--
5.	Bulk Density	0.32	g/cm <sup>3</sup>
6.	Total Organic Carbon	22.64	%
7.	Total Nitrogen as N	1.98	%
8.	Total Phosphate as P <sub>2</sub> O <sub>5</sub>	3.6	%
9.	Potash as K <sub>2</sub> O	2.9	%
10.	C:N Ratio	11.43	--
11.	Particle Size	82% pass through 4.0 mm Sieve	%

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

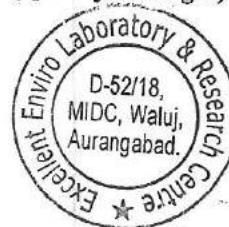
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-615/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer ,kuditre,Tal kaveer,Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Spent Wash
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	15:00 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.46	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	120126.0	IS 3025 (Part 58): 2006
3	Total Solids (T.S.)	mg/ltr	12762.0	APHA 2540 - D
4	K %	%	2.4	APHA 3500 -K
5	Chlorides	mg/ltr	6538.0	APHA 4500 -Cl <sup>-</sup> B.
6	Sulphates	mg/ltr	2176.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	40054.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

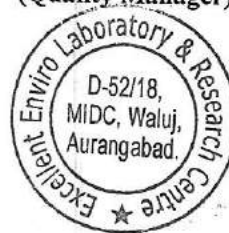
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/WAR/84

## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-616/12/2018-19
M/s. Kumbhi Kasari Sakhari Sakhar Karkhana, Tal-Kaveer, kuditre, Tal kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Spray Pond
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	15:10 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	6.6	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	226.0	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	210.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1280.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	BDL	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	120.10	APHA 4500 - Cl <sup>-</sup> B.
7	Sulphates	mg/ltr	186.4	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	55.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-617/12/2018-19
M/s. Kumbhi Kasari Sahkari Sakhar Karkhana, Tal-Kaveer, kuditre, Tal kaveer, Kolhapur, Maharashtra-416204	Date of Reporting	24/12/2018

### SAMPLING DETAILS

01) Location of Sampling	Digester Outlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	15/12/2018
07) Time of Sampling	15:20 PM
08) Date of Received in lab	17/12/2018
09) Analysis Start Date	17/12/2018

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.4	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	28630.0	IS 3025 (Part 58): 2006
3	Total Solids (T.S.)	mg/ltr	8262.0	APHA 2540 - D
4	K %	%	1.6	APHA 3500 -K
5	Chlorides	mg/ltr	4124.0	APHA 4500 - Cl <sup>-</sup> B.
6	Sulphates	mg/ltr	1566.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	7143.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

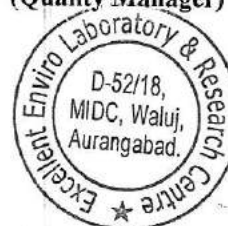
Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/AMR/84

## AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-384/01/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Near Main Gate
02) Sampling Procedure	IS 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	18/01/2019
05) Time of Sampling	10:45 AM
06) Date of Sample Received in Lab	19/01/2019
07) Analysis Start Date	19/01/2019
08) Ambient Temperature	24°C
09) Dry Bulb Temperature	22°C
10) Wet Bulb Temperature	16°C
11) Relative Humidity	46% RH

### RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	66.42	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	37.64	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.56	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.40	≤ 80	IS 5182(Part 6):2006
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	19.2	≤ 400	Method 401 Air sampling and Analysis 3 <sup>rd</sup> Edition
6	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.01	≤ 04	GC FID Methanizer Method
7	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.6	≤ 180	Method 411 Air sampling and Analysis 3 <sup>rd</sup> Edition
8	Lead (Pb)	µg/m <sup>3</sup>	0.02	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m <sup>3</sup>	0.06	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m <sup>3</sup>	0.005	≤ 20	APHA 3120 B
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.02	≤ 05	IS 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/ m <sup>3</sup>	BDL	≤ 01	IS 5182 Part 12:2004

UOM – Unit of Measurement.

"The results pertain to tested portion of sample"

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

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

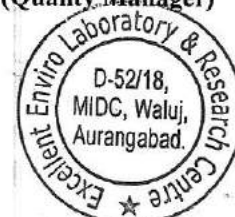
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/AMR/84

## AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-385/01/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Near Cane Yard
02) Sampling Procedure	IS 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	18/01/2019
05) Time of Sampling	10:55 AM
06) Date of Sample Received in Lab	19/01/2019
07) Analysis Start Date	19/01/2019
08) Ambient Temperature	24°C
09) Dry Bulb Temperature	22°C
10) Wet Bulb Temperature	16°C
11) Relative Humidity	46% RH

### RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	64.48	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	32.38	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.62	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.58	≤ 80	IS 5182(Part 6):2006
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	19.2	≤ 400	Method 401 Air sampling and Analysis 3 <sup>rd</sup> Edition
6	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.02	≤ 04	GC FID Methanizer Method
7	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.6	≤ 180	Method 411 Air sampling and Analysis 3 <sup>rd</sup> Edition
8	Lead (Pb)	µg/m <sup>3</sup>	0.04	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m <sup>3</sup>	0.08	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m <sup>3</sup>	0.006	≤ 20	APHA 3120 B
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.01	≤ 05	IS 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/ m <sup>3</sup>	BDL	≤ 01	IS 5182 Part 12:2004

UOM – Unit of Measurement.

"The results pertain to tested portion of sample"

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

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

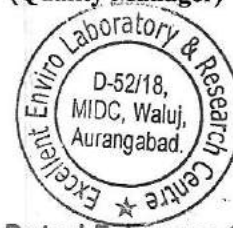
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Ms. Pradnya Hekde  
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Authorized Signatory

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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-386 to N-387/01/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### 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	18/01/2019
05) Time of Sampling	11:15 AM

### RESULTS

Sr. No.	Test Location	I.D. No.	UOM	DayTime	Night Time	MPCB Limit
1	Near Main Gate	N-386	dB (A)	64.4	58.1	During Day time= 75 dB(A) During Night Time= 70dB(A)
2	Near Cane Yard	N-387	dB (A)	62.8	56.4	

Remarks: The Noise Level is within MPCB normal Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/SMR/84

## SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-388/01/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### 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	18/01/2019
05) Time of Sampling	11:45AM
06) Date of Received in Lab	19/01/2019
07) Analysis Start Date	19/01/2019
08) Material of Stack	MS
09) Stack Height	80 Meter
10) Type of Stack	Round
11) Dimension of Stack	2.4meter
12) Flue Gas Temperature	318 <sup>0</sup> K
13) Differential Pressure	3.4mmWG
14) Velocity	6.24m/sec
15) Stack Area	4.9062m <sup>2</sup>
16) Gas volume	103281.24 Nm <sup>3</sup> /hr
17) Fuel Used	Diesel

### RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm <sup>3</sup>	82.80	≤ 150
2	Sulphur Dioxide	mg/Nm <sup>3</sup>	1.28	-
3	Sulphur Dioxide	Kg/day	3.17	-
4	Oxides of Nitrogen	mg/Nm <sup>3</sup>	16.30	-

"The results pertain to tested portion of sample"

Remark: Total particulate matter results is within MPCB Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/SMR/84

## SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-389/01/2018-19
M/s. KumbhiKasariSakharKarkhana, Tal-Kaveer ,kuditrc,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### 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	18/01/2019
05) Time of Sampling	12:15 PM
06) Date of Received in Lab	19/01/2019
07) Analysis Start Date	19/01/2019
08) Material of Stack	MS
09) Stack Height	30 Meter
10) Type of Stack	Round
11) Dimension of Stack	3.0meter
12) Flue Gas Temperature	312 <sup>0</sup> K
13) Differential Pressure	3.6mmWG
14) Velocity	6.36m/sec
15) Stack Area	7.065m <sup>2</sup>
16) Gas volume	154501.76Nm <sup>3</sup> /hr
17) Fuel Used	Diesel

### RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm <sup>3</sup>	60.58	≤ 150
2	Sulphur Dioxide	mg/Nm <sup>3</sup>	2.6	-
3	Sulphur Dioxide	Kg/day	9.64	-
4	Oxides of Nitrogen	mg/Nm <sup>3</sup>	12.48	-

"The results pertain to tested portion of sample"

Remark: Total particulate matter results is within MPCB Limits.

Prepared By

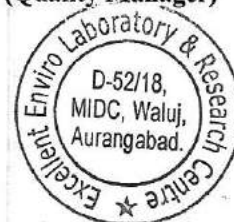
*Shivani Deshpande*  
Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*  
Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*  
Ms. Karishma Marwadi  
(Quality Manager)



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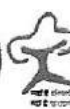
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OHSAS 18001: 2007  
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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/WAR/84

## WASTE WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-390/01/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	ETP Inlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	13:00 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.66	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	7340.0	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	1620.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	4120.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	8.4	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	13152.0	APHA 4500 - ClB.
7	Sulphates	mg/ltr	1946.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	1746.6	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

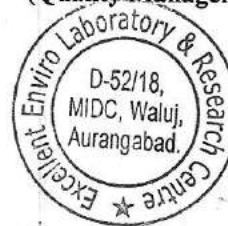
*Pradnya*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma*

Ms. Karishma Marwadi  
(Quality Manager)



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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-391/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	ETP Outlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	13:10 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	pH	-	6.6	5.5 to 9.0	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	224.0	250.00	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	86.0	100.00	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1182.0	2100.00	APHA 2540 - C
5	Oil & Grease	mg/ltr	< 1	10.00	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	390.0	600.00	APHA 4500 - Cl <sup>-</sup> B.
7	Sulphates	mg/ltr	620.0	1000.00	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	74.0	100.00	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

"The results pertain to tested portion of sample"

Remark - All aboveparameter results are within MPCB limit.

Prepared By

*Shivani*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

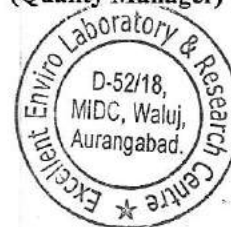
*Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## DRINKING WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-392/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### 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	18/01/2019
07) Time of Sampling	13:30 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### 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	0.42	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	338.4	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.026	--	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	148.0	<200	mg/ltr	IS 3025 (Part 21):1983
8.	Total Alkalinity	146.4	<200	mg/ltr	IS 3025 (Part 13):1964
9.	Sulphate	100.8	<200	mg/ltr	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<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	90.2	<250	mg/ltr	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	68.4	<75	mg/ltr	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	24.0	<30	mg/ltr	IS 3025 (Part 46)
16.	Chemical Oxygen Demand	22.4	-	mg/ltr	IS 3025 (Part 58) 2006
17.	Biochemical Oxygen Demand, BOD (3 days @27°C)	7.2	-	mg/ltr	IS 3025 (Part 44) : 1993
18.	Sodium as Na	40.6	-	mg/ltr	IS 3025 (Part 45) 1993
19.	Potassium as K	2.8	-	mg/ltr	IS 3025 (Part 45) 1993

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# Excellent Enviro Laboratory & Research Center

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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

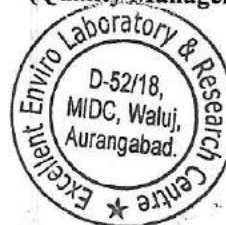
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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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-393/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Karkhana Site -Well Water- 01 (Mahadev Mali)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	13:50 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Colour	1.1	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.70	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	462.6	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.028	--	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	174.2	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	130.0	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	148.6	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.1	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.34	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	86.4	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	70.6	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	20.2	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

AN "ENVIRONMENTAL LABORATORY"

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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-394/01/2018 -19
M/s. KumbhiKasariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Karkhana Site -Well Water – 02 (KrishnathPatil)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	14:00 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.0	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.72	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	464.0	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.032	--	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	172.6	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	158.4	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	134.6	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.1	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.40	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	84.6	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	62.4	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	26.6	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*  
Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*  
Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*  
Ms. Karishma Marwadi  
(Quality Manager)

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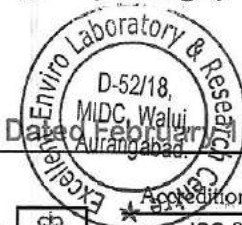
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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-395/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 01 (PanduKhorade)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	14:20 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
<b>Physical Parameter</b>					
1.	Color	1.4	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.86	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	468.4	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.40	--	μS/cm	IS 3025 (Part 14):1984
<b>Chemical Parameter</b>					
6.	pH	7.2	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	182.4	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	134.2	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	112.6	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.1	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.40	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	124.2	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	64.6	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	19.2	<30	mg/lit	IS 3025 (Part 46)
<b>Microbiological Parameter</b>					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*  
Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*  
Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*  
Ms. Karishma Marwadi  
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AN "ENVIRONMENTAL LABORATORY"

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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-396/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 02 (UmeshHande)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	14:30 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.1	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.78	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	456.2	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.36	--	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	174.6	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	162.4	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	136.1	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.1	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.44	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	174.4	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	54.6	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	19.8	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

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Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

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Ms. Pradnya Hekde  
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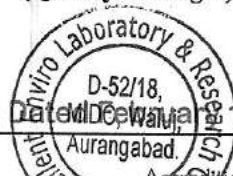
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## WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-397/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 03 (Datta Mack)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	14:40 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
<b>Physical Parameter</b>					
1.	Color	1.4	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.46	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	468.4	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.32	--	µS/cm	IS 3025 (Part 14):1984
<b>Chemical Parameter</b>					
6.	pH	7.4	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	148.2	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	118.4	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	78.2	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.1	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.34	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	164.6	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	70.0	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	26.0	<30	mg/lit	IS 3025 (Part 46)
<b>Microbiological Parameter</b>					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/CAR/84

## COMPOST SAMPLE ANALYSIS REPORT

Client's Name & Address			Report No.	EEL/ABD/C-398/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204			Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Compost
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	14:50 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	Result	Unit(s)
1.	pH ( 1:5 Suspension )	7.1	---
2.	Moisture	34.28	%
3.	Colour	Blackish Brown	---
4.	Odour	Absence of Foul Smell	---
5.	Bulk Density	0.36	g/cm <sup>3</sup>
6.	Total Organic Carbon	21.90	%
7.	Total Nitrogen as N	1.66	%
8.	Total Phosphate as P <sub>2</sub> O <sub>5</sub>	3.9	%
9.	Potash as K <sub>2</sub> O	2.4	%
10.	C:N Ratio	13.19	---
11.	Particle Size	82% pass through 4.0 mm Sieve	%

Prepared By

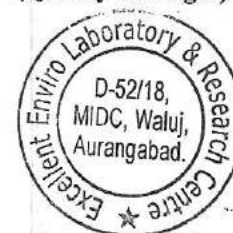
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Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*  
Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*  
Ms. Karishma Marwadi  
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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-399/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Spent Wash
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	15:00 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.6	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	120210.0	IS 3025 (Part 58): 2006
3	Total Solids (T.S.)	mg/ltr	12726.0	APHA 2540 - D
4	K %	%	2.1	APHA 3500 -K
5	Chlorides	mg/ltr	6432.0	APHA 4500 -ClB.
6	Sulphates	mg/ltr	2126.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	40070.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

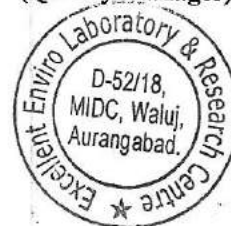
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Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
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## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-400/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Spray Pond
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	15:10 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	6.4	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	212.0	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	234.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1206.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	BDL	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	104.0	APHA 4500 - ClB.
7	Sulphates	mg/ltr	148.2	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	50.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

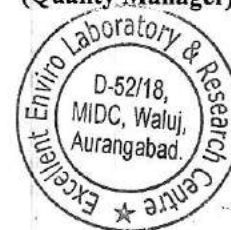
Prepared By

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Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)


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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-401/01/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	26/01/2019

### SAMPLING DETAILS

01) Location of Sampling	Digester Outlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	18/01/2019
07) Time of Sampling	15:20 PM
08) Date of Received in lab	19/01/2019
09) Analysis Start Date	19/01/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.6	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	28584.0	IS 3025 (Part 58): 2006
3	Total Solids (T.S.)	mg/ltr	8238.0	APHA 2540 - D
4	K %	%	1.4	APHA 3500 -K
5	Chlorides	mg/ltr	4110.0	APHA 4500 -CTB.
6	Sulphates	mg/ltr	1502.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	6861.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

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Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

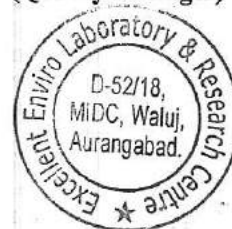
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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/AMR/84

## AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-209/02/2018-19
M/s. Kumbhi Kasari Sakhari Sakhar Karkhana, Tal-Kaveer, kuditre, Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Near Main Gate
02) Sampling Procedure	IS 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	16/02/2019
05) Time of Sampling	10:45 AM
06) Date of Sample Received in Lab	18/02/2019
07) Analysis Start Date	18/02/2019
08) Ambient Temperature	24°C
09) Dry Bulb Temperature	22°C
10) Wet Bulb Temperature	16°C
11) Relative Humidity	46% RH

### RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	64.38	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	36.20	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.16	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	28.42	≤ 80	IS 5182 (Part 6):2005
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	19.4	≤ 400	Method 401 Air sampling and Analysis 3 <sup>rd</sup> Edition
6	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.02	≤ 04	GC FID Methanizer Method
7	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.4	≤ 180	Method 411 Air sampling and Analysis 3 <sup>rd</sup> Edition
8	Lead (Pb)	µg/m <sup>3</sup>	0.02	≤ 1.0	APIIA 3120 B
9	Arsenic (As)	ng/m <sup>3</sup>	0.04	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/m <sup>3</sup>	0.005	≤ 20	APHA 3120 B
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.02	≤ 05	IS 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/m <sup>3</sup>	BDL	≤ 01	IS 5182 Part 12:2004

UOM - Unit of Measurement.

"The results pertain to tested portion of sample"

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

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

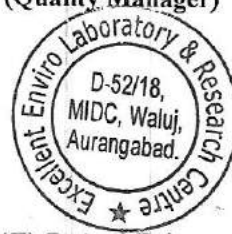
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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/AMR/84

## AMBIENT AIR MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/A-210/02/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Near Cane Yard
02) Sampling Procedure	IS 5182 Part 5
03) Sample Collected By	M/s. Global Enviro Tech Services
04) Date of Sampling	16/02/2019
05) Time of Sampling	10:55 AM
06) Date of Sample Received in Lab	18/02/2019
07) Analysis Start Date	18/02/2019
08) Ambient Temperature	24°C
09) Dry Bulb Temperature	22°C
10) Wet Bulb Temperature	16°C
11) Relative Humidity	46% RH

### RESULTS

Sr. No.	Parameter	UOM	Results	NAAQ Standards	Standard Method
1	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	66.20	≤ 100	USEPA (40 CFR) Part 50
2	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	33.54	≤ 60	USEPA (40 CFR) Part 50
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.10	≤ 80	IS 5182 (Part 2) 2001
4	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	26.36	≤ 80	IS 5182(Part 6):2006
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	19.1	≤ 400	Method 401 Air sampling and Analysis 3 <sup>rd</sup> Edition
6	Carbon Monoxide (CO)	mg/m <sup>3</sup>	0.04	≤ 04	GC FID Methanizer Method
7	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.4	≤ 180	Method 411 Air sampling and Analysis 3 <sup>rd</sup> Edition
8	Lead (Pb)	µg/m <sup>3</sup>	0.04	≤ 1.0	APHA 3120 B
9	Arsenic (As)	ng/ m <sup>3</sup>	0.08	≤ 06	APHA 3120 B
10	Nickel (Ni)	ng/ m <sup>3</sup>	0.008	≤ 20	APHA 3120 B
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	0.01	≤ 05	IS 5182 Part 11:2006
12	Benzo (a) Pyrene	ng/ m <sup>3</sup>	BDL	≤ 01	IS 5182 Part 12:2004

UOM – Unit of Measurement.

"The results pertain to tested portion of sample"

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

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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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-211 to N-212/02/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### 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	16/02/2019
05) Time of Sampling	11:15 AM

### RESULTS

Sr. No.	Test Location	I.D. No.	UOM	DayTime	Night Time	MPCB Limit
1	Near Main Gate	N-211	dB (A)	68.2	60.2	During Day time= 75 dB(A) During Night Time= 70dB(A)
2	Near Cane Yard	N-212	dB (A)	66.4	58.4	

Remarks: The Noise Level is within MPCB normal Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

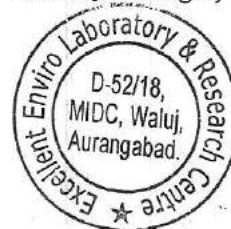
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Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/SMR/84

## SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-213/02/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### 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	16/02/2019
05) Time of Sampling	11:45AM
06) Date of Received in Lab	18/02/2019
07) Analysis Start Date	18/02/2019
08) Material of Stack	MS
09) Stack Height	80 Meter
10) Type of Stack	Round
11) Dimension of Stack	2.4meter
12) Flue Gas Temperature	346 <sup>0</sup> K
13) Differential Pressure	3.0mmWG
14) Velocity	6.11m/sec
15) Stack Area	4.9062m <sup>2</sup>
16) Gas volume	92945.66 Nm <sup>3</sup> /hr
17) Fuel Used	Diesel

### RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm <sup>3</sup>	84.20	≤ 150
2	Sulphur Dioxide	mg/Nm <sup>3</sup>	1.46	-
3	Sulphur Dioxide	Kg/day	3.25	-
4	Oxides of Nitrogen	mg/Nm <sup>3</sup>	12.86	-

"The results pertain to tested portion of sample"

Remark: Total particulate matter results is within MPCB Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

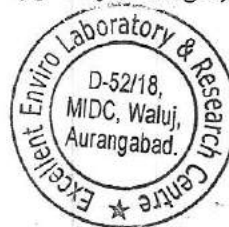
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(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/SMR/84

## SOURCE (STACK) EMISSION MONITORING REPORT

Client's Name & Address	Report No.	EEL/ABD/S-214/02/2018-19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### 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	16/02/2019
05) Time of Sampling	12:15 PM
06) Date of Received in Lab	18/02/2019
07) Analysis Start Date	18/02/2019
08) Material of Stack	MS
09) Stack Height	30 Meter
10) Type of Stack	Round
11) Dimension of Stack	3.0meter
12) Flue Gas Temperature	324 <sup>0</sup> K
13) Differential Pressure	3.4mmWG
14) Velocity	6.30m/sec
15) Stack Area	7.065m <sup>2</sup>
16) Gas volume	147375.90Nm <sup>3</sup> /hr
17) Fuel Used	Diesel

### RESULTS

Sr. No.	Parameter	UOM	Results	Limits as per MPCB Consent
1	Total Particulate Matter	mg/Nm <sup>3</sup>	62.28	≤ 150
2	Sulphur Dioxide	mg/Nm <sup>3</sup>	2.8	-
3	Sulphur Dioxide	Kg/day	9.9	-
4	Oxides of Nitrogen	mg/Nm <sup>3</sup>	14.0	-

"The results pertain to tested portion of sample"

Remark: Total particulate matter results is within MPCB Limits.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

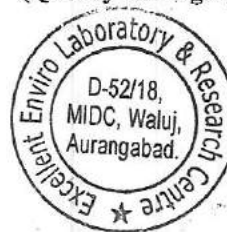
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Authorized Signatory

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Ms. Karishma Marwadi  
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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-215/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	ETP Inlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	13:00 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.82	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	7286.0	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	1568.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	4236.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	8.1	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	13062.0	APHA 4500 - Cl <sup>-</sup> B.
7	Sulphates	mg/ltr	1590.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	1722.6	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

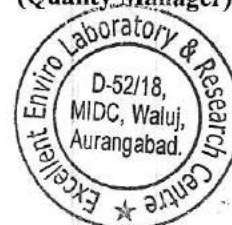
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Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma*

Ms. Karishma Marwadi  
(Quality Manager)



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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-216/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	ETP Outlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	13:10 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	MPCB Limit	Testing Method
1	pH	-	6.8	5.5 to 9.0	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	220.0	250.00	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	80.0	100.00	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1128.0	2100.00	APHA 2540 - C
5	Oil & Grease	mg/ltr	< 1	10.00	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	364.0	600.00	APHA 4500 - Cl <sup>-</sup> B.
7	Sulphates	mg/ltr	658.0	1000.00	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	72.0	100.00	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

"The results pertain to tested portion of sample"

Remark - All aboveparameter results are within MPCB limit.

Prepared By

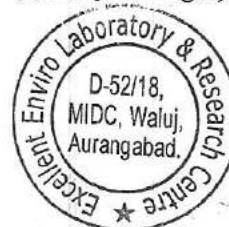
Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/WAR/84

## DRINKING WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-217/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### 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	16/02/2019
07) Time of Sampling	13:30 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
<b>Physical Parameter</b>					
1.	Colour	1.2	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.40	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	346.0	<500	Ppm	IS 3025 (Part 16):1984
4.	EC	0.022	--	µS/cm	IS 3025 (Part 14):1984
<b>Chemical Parameter</b>					
5.	pH	7.3	6.5 to 8.5	--	IS 3025 (Part 11):1984
6.	Total Hardness	140.0	<200	mg/ltr	IS 3025 (Part 21):1983
7.	Total Alkalinity	130.0	<200	mg/ltr	IS 3025 (Part 13):1964
8.	Sulphate	104.6	<200	mg/ltr	IS 3025 (Part 24):1986
9.	Nitrate	1.1	<45	mg/ltr	IS 3025 (Part 34):1988
10.	Fluoride	BDL	<1.5	mg/ltr	IS 3025 (Part 23):1983
11.	Residual Chlorine	NIL	0.20	mg/ltr	IS 3025 (Part 26):1986
12.	Chloride	92.6	<250	mg/ltr	IS 3025 (Part 32):1988
13.	Calcium (as Ca)	64.2	<75	mg/ltr	IS 3025 (Part 40):1991
14.	Magnesium (as Mg)	28.4	<30	mg/ltr	IS 3025 (Part 46)
15.	Chemical Oxygen Demand	26.1	-	mg/ltr	IS 3025 (Part 58) 2006
16.	Biochemical Oxygen Demand, BOD (3 days @27°C)	8.2	-	mg/ltr	IS 3025 (Part 44) : 1993
17.	Sodium as Na	36.40	-	mg/ltr	IS 3025 (Part 45) 1993
18.	Potassium as K	2.1	-	mg/ltr	IS 3025 (Part 45) 1993

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# Excellent Enviro Laboratory & Research Center

Microbiological Parameter					
19.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
20.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

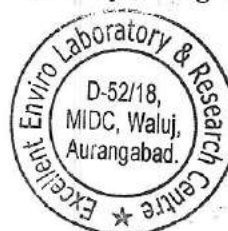
*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

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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-218/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Karkhana Site -Well Water-- 01 (Mahadev Mali)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	13:50 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### 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	0.76	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	469.2	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.024	--	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	170.4	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	138.6	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	156.2	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.30	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	98.2	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	72.6	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	21.0	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

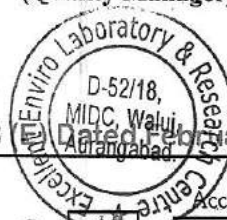
Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

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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-219/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Karkhana Site -Well Water – 02 (KrishnathPatil)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	14:00 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
<b>Physical Parameter</b>					
1.	Color	1.2	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.70	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	420.0	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.030	--	µS/cm	IS 3025 (Part 14):1984
<b>Chemical Parameter</b>					
6.	pH	7.2	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	166.4	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	150.2	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	130.4	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.40	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	88.6	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	60.1	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	20.4	<30	mg/lit	IS 3025 (Part 46)
<b>Microbiological Parameter</b>					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

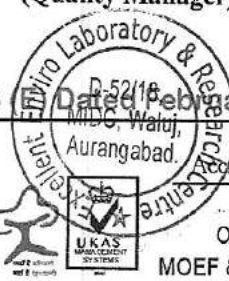
Authorized Signatory

*Karisma Marwadi*

Ms. Karisma Marwadi  
(Quality Manager)

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# Excellent Enviro Laboratory & Research Center

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## WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-220/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 01 (Jayvant Shinde)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	14:20 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.2	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.80	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	436.8	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.40	--	µS/cm	IS 3025 (Part 14):1984
Chemical Parameter					
6.	pH	7.3	6.5 to 8.5	--	IS 3025 (Part 11):1984
7.	Total Hardness	158.2	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	140.2	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	118.4	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.46	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	128.4	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	70.2	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	18.6	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma*

Ms. Karishma Marwadi  
(Quality Manager)

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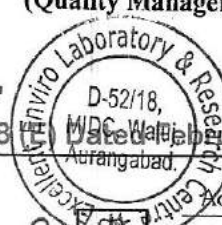
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# Excellent Enviro Laboratory & Research Center

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## WELL WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/DW-221/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer, Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 02 (KrishmatBuva)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	14:30 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per Is 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.3	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.70	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	484.0	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.32	--	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	168.6	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	156.9	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	132.4	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.40	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	170.10	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	60.2	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	20.4	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	Absent	Absent	per/100ml	IS 1622:1981

UOM – Unit of Measurement.

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

Prepared By

*Shivani*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karisma*

Ms. Karisma Marwadi  
(Quality Manager)

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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-222/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Compost Site -Well Water – 03 (ShomrooBuva)
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	14:40 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	Result	Limits as per IS 10500:2012	Unit(s)	Standard Method
Physical Parameter					
1.	Color	1.6	<5	Hazen	IS 3025 (Part 4):1983
2.	Turbidity	0.62	<1	NTU	IS 3025 (Part 10):1984
3.	TDS	476.4	<500	ppm	IS 3025 (Part 16):1984
4.	EC	0.30	--	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	189.5	<200	mg/lit	IS 3025 (Part 21):1983
8.	Total Alkalinity	130.2	<200	mg/lit	IS 3025 (Part 13):1964
9.	Sulphate	74.8	<200	mg/lit	IS 3025 (Part 24):1986
10.	Nitrate	1.2	<45	mg/lit	IS 3025 (Part 34):1988
11.	Fluoride	0.36	<1.5	mg/lit	IS 3025 (Part 23):1983
12.	Residual Chlorine	NIL	0.20	mg/lit	IS 3025 (Part 26):1986
13.	Chloride	160.2	<250	mg/lit	IS 3025 (Part 32):1988
14.	Calcium (as Ca)	72.4	<75	mg/lit	IS 3025 (Part 40):1991
15.	Magnesium (as Mg)	25.8	<30	mg/lit	IS 3025 (Part 46)
Microbiological Parameter					
16.	Total Coliform	Absent	Absent	MPN/100ml	IS 1622:1981
17.	E.coli.	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

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)

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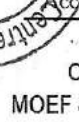
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# Excellent Enviro Laboratory & Research Center

Format No.: EELRC/F/CAR/84

## COMPOST SAMPLE ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/C-223/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Compost
02) Sampling Procedure	-
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	14:50 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	Result	Unit(s)
1.	pH ( 1:5 Suspension )	7.2	---
2.	Moisture	30.62	%
3.	Colour	Blackish Brown	--
4.	Odour	Absence of Foul Smell	--
5.	Bulk Density	0.40	g/cm <sup>3</sup>
6.	Total Organic Carbon	22.10	%
7.	Total Nitrogen as N	1.89	%
8.	Total Phosphate as P <sub>2</sub> O <sub>5</sub>	3.6	%
9.	Potash as K <sub>2</sub> O	2.8	%
10.	C:N Ratio	11.69	--
11.	Particle Size	82% pass through 4.0 mm Sieve	%

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

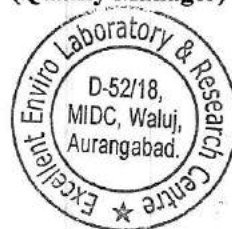
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Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-224/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Spent Wash
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	15:00 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.5	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	120326.0	IS 3025 (Part 58): 2006
3	Total Solids (T.S.)	mg/ltr	12640.0	APHA 2540 - D
4	K %	%	2.4	APHA 3500 -K
5	Chlorides	mg/ltr	600.0	APHA 4500 -C <sub>1</sub> B.
6	Sulphates	mg/ltr	2284.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	40108.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

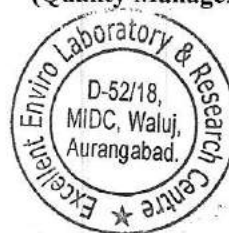
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Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karishma Marwadi*

Ms. Karishma Marwadi  
(Quality Manager)



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Website : [www.eelab.in/](http://www.eelab.in/) [eelab@excellentenviro.com](mailto:eelab@excellentenviro.com)



## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-225/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Spray Pond
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	15:10 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	6.2	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	214.0	IS 3025 (Part 58): 2006
3	Suspended Solids (S.S.)	mg/ltr	200.0	APHA 2540 - D
4	Total Dissolved Solids (TDS)	mg/ltr	1186.0	APHA 2540 - C
5	Oil & Grease	mg/ltr	BDL	IS 3025 (Part 39): 1991
6	Chlorides	mg/ltr	128.0	APHA 4500 - Cl <sup>-</sup> B.
7	Sulphates	mg/ltr	136.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
8	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	54.2	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

Ms. Karishma Marwadi  
(Quality Manager)


### AN "ENVIRONMENTAL LABORATORY"

Recognised by MOEF &amp; CC, New Delhi, Gazette Notification S.O. 388 (E) Dated February 10, 2017

**REGISTERED OFFICE :** **MUMBAI OFFICE**  
D-52/18, MIDC Waluj,  
Aurangabad - 431 136.  
Ph. 0240-6641879  
9970429991

**Dhawalgi Co-op, Hsg. Society,**  
Building No.1, Flat No. B-3,  
Near Peace Park Hotel,  
Thana Naka, Panvel - 410 206  
9970429991

**PUNE OFFICE**  
Block No.16/17, A WING.  
1st Floor, Sagar Complex,  
Nasik Phata, Kasarwadi,  
Pune - 411034.  
9970429991



Accreditation &amp; Approvals

ISO 9001: 2008  
OHSAS 18001: 2007  
MOEF & CC approved laboratory  
By Govt. of India





# Excellent Enviro Laboratory & Research Center

Format No.:EELRC/F/WAR/84

## WATER ANALYSIS REPORT

Client's Name & Address	Report No.	EEL/ABD/WW-226/02/2018 -19
M/s. KumbhiKasariSahkariSakharKarkhana, Tal-Kaveer ,kuditre,Talkaveer,Kolhapur, Maharashtra-416204	Date of Reporting	25/02/2019

### SAMPLING DETAILS

01) Location of Sampling	Digester Outlet
02) Sampling Procedure	APHA 1060 B 23 <sup>rd</sup> Edition
05) Sample Collected By	M/s. Global Enviro Tech Services
06) Date of Sampling	16/02/2019
07) Time of Sampling	15:20 PM
08) Date of Received in lab	18/02/2019
09) Analysis Start Date	18/02/2019

### RESULTS

Sr. No.	Parameter	UOM	Result of Sample	Testing Method
1	pH	-	5.4	APHA 4500 - H <sup>+</sup> B
2	Chemical Oxygen Demand (COD)	mg/ltr	28420.0	IS 3025 (Part 58): 2006
3	Total Solids (T.S.)	mg/ltr	8187.0	APHA 2540 - D
4	K %	%	1.2	APHA 3500 -K
5	Chlorides	mg/ltr	4216.0	APHA 4500 -ClB.
6	Sulphates	mg/ltr	1420.0	APHA 4500 - SO <sub>4</sub> <sup>2-</sup> E.
7	Biochemical Oxygen Demand BOD (3 days @27°C)	mg/ltr	6782.0	IS 3025 (Part 44) : 1993

UOM - Unit of Measurement.

Prepared By

*Shivani Deshpande*

Ms. Shivani Deshpande  
(Lab Chemist)

Checked By

*Pradnya Hekde*

Ms. Pradnya Hekde  
(Lab Chemist)

Authorized Signatory

*Karisma Marwadi*

Ms. Karisma Marwadi  
(Quality Manager)



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Recognised by MOEF & CC, New Delhi, Gazette Notification S.O. 388 (E) Dated February 10, 2017

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#### Accreditation & Approvals

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# **Annexure – III**

## **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**





## कारखाना साईटवरील फळझाडे , जंगली झाडे व शोभेची झाडे इ.चा दि.२२.०४.२०१७ अखेरचा रिपोर्ट

अ.नं.		चिक्कू	नारळ	आंबा	जंगली	पेरू	वेलफळ	शेवगा	जांभूळ	हूबर	पारिजातक	फणस	सिताफळ	लिंगू	वड	रामफळ	साग	बदाम	पिंपळ	बॉटल पाम	निलगीरी	असोक	चंदन	आ.बाभूळ
१	नविन चाळ	१	२	२	३	२	१	४	२	१	०	०	०	०	०	०	०	०	०	०	०	०	०	०
२	चाळ नं.२	०	४	३	०	५	०	२	२	२	१	२	१	०	०	०	०	०	०	०	०	०	०	०
३	चाळ नं.३	०	९	६	०	१	०	३	१	१	०	३	०	३	१	१	०	०	०	०	०	०	०	०
४	चाळ नं.४	०	९	४	१	०	०	२	०	२	०	४	०	०	०	३	०	०	०	०	०	०	०	०
५	चाळ नं.५	०	१	४	०	३	०	०	४	१	०	३	०	०	०	१	०	०	०	०	०	०	०	०
६	चाळ नं.६	०	३	३	१	०	०	०	०	२	०	०	०	०	०	३	१	१	१	०	०	०	०	०
७	चाळ नं.७	०	०	०	४	०	०	१	१	१	०	२	०	०	०	०	०	०	०	०	०	०	०	०
८	बायोगॅस	०	१	०	९	०	०	०	१	०	०	०	०	१	०	०	०	०	०	१७	१	०	०	०
९	क्रिडा . चौक रस्ता	०	८	०	१३	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	१	०	०	०
१०	श्रीराम हायस्कूल	०	३	२	२५	०	०	०	०	०	०	०	०	०	०	०	०	३	०	०	१४	४४	२	०
११	जूनी चाळ	०	१	८	१५	१	०	०	०	३	०	०	०	२	०	०	०	०	०	०	०	०	०	०
१२	विद्यानिकेतन	०	८२	६	५३	०	०	०	३	२	०	०	०	०	०	०	०	४	०	०	३३	५२	०	३५
१३	सांगरूळ रस्ता	०	०	०	६२	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०
१४	पेट्रोल पंप	०	०	०	२१	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०
१५	केनयार्ड	०	०	६	२	०	०	०	०	६	०	०	०	०	०	०	०	०	०	०	१	०	०	०
१६	को . जन	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	२	०	०	०	०	०	०
१७	राम मंदिर	०	३	४	०	०	०	०	०	९	०	०	०	०	१	०	०	०	१	०	०	०	०	०
१८	डिस्टीलरी	०	१	५	२	०	०	०	१	२	०	३	०	०	०	०	०	६	०	१५	०	१३	०	०
१९	मेनगेट शेजारील	०	६	३	०	०	०	०	०	२	०	०	०	०	०	०	०	०	२	०	०	०	०	०
२०	शाहू पुतळा	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०
२१	अकॉट आफिस	०	२	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	११	०	०
२२	नारळ चौक	०	६६	०	२६	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०
२३	कुडित्रे रस्ता	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०
२४	दवाखाना वाग	०	३२	०	२	०	०	०	०	०	०	०	०	२	०	०	०	०	०	०	४	०	२	०
२५	गेस्ट हाऊस परिसर	३	४८	५६	११	६	१	०	१०	६	३	४	३	६	२	४	०	१	०	४	०	६४	१	१
२६	नर्सरी व परिसर	०	८१	५९	७३	१	०	१	१	०	१	१	०	०	०	०	०	१	०	०	१	०	०	०
		४	३६२	१७१	३२३	२७	२	१३	२६	४०	५	२२	४	१४	४	१२	१	१८	४	३६	५५	१८४	५	३६

	औ. वनस्पती	सुरु	आ. पाम	फायकस	आवळा	पा. चफा	कणेरी	डालीवी	बाभूळ	रा. केळी	वांबू	कोकम	पि. चाफा	चिंच	पपई	बोरे साधी	आपटा	कडीपत्ता	एकुण
नविन चाळ	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	१८
चाळ नं. २	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	२२
चाळ नं. ३	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	३७
चाळ नं. ४	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	२५
चाळ नं. ५	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	१७
चाळ नं. ६	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	१५
चाळ नं. ७	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	९
बायोगॅस	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	३०
क्रिडा. चौक रस्ता	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	२२
श्रीराम हायस्कूल	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	९३
जूनी चाळ	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	३०
विद्यानिकेतन	५०	६	५०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	३७६
सांगरूळ रस्ता	०	०	०	४९	०	०	०	०	०	०	०	०	०	०	०	०	०	०	१११
पेट्रोल पंप	०	०	२	४	०	०	०	०	०	०	०	०	०	०	०	०	०	०	२७
केनयार्ड	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	१५
को. जन	०	१०४	०	०	०	०	०	०	१	०	०	०	०	०	०	०	०	०	१७७
राम मंदिर	०	०	१५	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	३३
डिस्टीलरी	०	०	७	०	१	०	०	०	०	०	०	०	०	०	०	०	०	०	५६
मेनगेट शेजारील	०	०	४३	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	५६
शाहू पुतळा	०	०	०	०	०	०	०	१	०	०	०	०	०	०	०	०	०	०	१
अकॉट आफिस	०	०	१५	२६	१	७	१०	०	०	०	०	०	०	०	२	०	०	०	७४
नारळ चौक	०	०	०	०	०	०	०	०	०	१	०	०	०	०	०	०	०	०	९३
कुडिरे रस्ता	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०	०
दवाखाना बाग	०	०	०	०	०	१	०	०	०	१	०	०	०	०	०	०	०	०	४४
गेस्ट हाऊस परिसर	०	०	६४	६	४	०	७	१०	१	१	१	१	३	५	०	१	१	१	३४०
नर्सरी व परिसर	०	८	४९	४	०	०	०	०	१	१	०	०	१	०	०	०	०	०	२८४
	५०	१०४	२४५	८९	६	८	१७	११	३	४	१	१	४	५	२	१	१	१	२००५

# **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



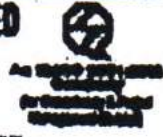
# **Annexure – VI**

## **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](http://www.tenderwizard.com/NBCC) and [www.eprocure.gov.in](http://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 (Eng) 0014

पर्यावरण मंत्रालय, मुंबई एस.ई.एसी-३०१२/  
सी.आर.३२१/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 2018

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000010895

### Submitted Date

07-09-2018

### 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)

18803.18

#### Scale

L.S.I

#### City

Kolhapur

#### Pincode

416204

#### Person Name

Prakash Chitins

#### 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

BO/CAC-CELL/UAN  
No.0000030367/R/CAC-1803001138

#### Consent Issue Date

22/03/2018

#### Consent Valid Upto

31/07/2018

### Product Information

#### Product Name

Sugar

#### Consent Quantity

81280

#### Actual Quantity

82952

#### UOM

MT/A

### By-product Information

#### By Product Name

Bagasse

#### Consent Quantity

187123.2

#### Actual Quantity

179638.859

#### UOM

MT/A

Press mud

23522.13

91961.830

MT/A

Molasses

22400

23923

MT/A

Electricity (Co-gen)

19.5

15.70

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

<b>All others</b>	0	0
<b>Total</b>	1675	635

### 1) Effluent Generation in CMD / MLD

<b>Particulars</b>	<b>Consent Quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Trade Effluent	360	360	CMD

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

<b>Name of Products (Production)</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Sugar	0.596	0.570	CMD

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

<b>Name of Raw Materials</b>	<b>During the Previous financial Year</b>	<b>During the current Financial year</b>	<b>UOM</b>
Sugar Cane	7.74	7.62	Ton/Ton
Lime	0.010	0.0108	Ton/Ton
Sulpher	0.0031	0.0031	Ton/Ton

### 4) Fuel Consumption

<b>Fuel Name</b>	<b>Consent quantity</b>	<b>Actual Quantity</b>	<b>UOM</b>
Bagasse	162048	146948	MT/A

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

#### [A] Water

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
BOD	10.08	28	Nil	100	NA
COD	40.32	112	Nil	250	NA
Oil & Grease	0,0	0.0	Nil	10	NA

#### [B] Air (Stack)

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
PM	534.10	79.5	Nil	150	NA

### HAZARDOUS WASTES

#### 1) From Process

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used /spent oil	1.2	1.06	MT/A

#### 2) From Pollution Control Facilities

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

### SOLID WASTES

#### 1) From Process



<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Boiler Ash	2300	2600	MT/A

## **2) From Pollution Control Facilities**

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

## **3) Quantity Recycled or Re-utilized within the unit**

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used /spent oil	1.2	1.06	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**

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

## **2) Solid Waste**

<b>Type of Solid Waste Generated</b>	<b>Qty of Solid Waste</b>	<b>UOM</b>	<b>Concentration of Solid Waste</b>
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.**

<b>Description</b>	<b>Reduction in Water Consumption (M3/day)</b>	<b>Reduction in Fuel &amp; Solvent Consumption (KL/day)</b>	<b>Reduction in Raw Material (Kg)</b>	<b>Reduction in Power Consumption (KWH)</b>	<b>Capital Investment(in Lacs)</b>	<b>Reduction in Maintenance(in Lacs)</b>
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**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
None	None	NA

## **[B] Investment Proposed for next Year**

<b>Detail of measures for Environmental Protection</b>	<b>Environmental Protection Measures</b>	<b>Capital Investment (Lacks)</b>
None	None	NA

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

## **Particulars**

NA

## **Name & Designation**

Prakash Chitnis (Managing Director)

# **Annexure – VIII**

## **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

