

SPEED POST

JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

Shri Kallappanna Awadenagar, Hupari-Yalgud 416 203, Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra).

Phone (0230) 2450402 (5 Lines), Fax (0230) 2450401, E-mail : kprjsssk@gmail.com

Ref. No MFG/ETP/1281 / 2018-19

Date: 25/05/2019

To,
The Regional Officer,
Ministry of Environment, Forest & Climate Change,
Western Region (WCZ),
Ground Floor, East Wing,
New Secretariat Building,
Civil Lines,
Nagpur – 440 001.

Sub : Submission of Six Monthly Compliance report for period October 2018 to March 2019 w.r.t Sugar Unit of 12000 TCD – **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari**, Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur (MS).

Ref: Environmental Clearance (EC) Letter F. No. J-11011/38/2016-IA-II (I) dated 20th December, 2016.

Dear Sir,

This has reference to Environmental Clearance (EC) granted to our Sugar Unit of 12000 TCD – **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari**, Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra State).

As per General Condition No. 14 in Environmental Clearance letter, we are submitting a Six Monthly Compliance report for a period of October 2018 to March 2019.

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

Thanking you,

Yours faithfully,
For Jawahar S.S.S.K. Ltd., Hupari


(M.G. Joshi)
Managing Director

Encl.: a/a

Copy for information to:-

1. Zonal Officer,
Central Pollution Control Board,
Parivesh Bhavan,
Opp.Ward No.10, VMC Office,
Subhanpura,
Vadodara (Gujarat)-390 023.

2. Member Secretary,
Maharashtra Pollution Control Board,
Kalpataru Point, 3rd & 4th Floor,
Opp.Cine Planet,
Near Sion Circle, Sion (E),
Mumbai (Maharashtra)- 400 022.

3. Regional Officer,
Maharashtra Pollution Control Board,
Udyog Bhavan Building,
Naer Collector Office,
Kolhapur- 416 002.

Six monthly (Period October 2018 to March 2019) Compliance report for Sugar Unit of Capacity 12000 TCD by M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. (JSSSKL), Shri Kallappa Anna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, MS.

Compliance of Specific and General Conditions mentioned in Environmental Clearance (EC) letter J-11011/38/2016-IA II (I) dated 20.12.2016 for period from October 2018 to March 2019 is presented as follows-

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
SPECIFIC CONDITIONS		
1.	<p>Condition No.1 ESP / Bagfilter shall be provided to the bagasse fired boiler (20 TPH; 75 TPH and 90 TPH) to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines. No wet scrubber shall be used. Existing boiler (55 TPH) will be converted into 75 TPH boiler.</p>	<p>ESPs including adequate height stacks for all three boilers are provided for control of Particulate Matter and Gaseous pollutants. Moreover, online monitoring system is also installed on stack. Photographs of same are attached at Annexure - I.</p>
2.	<p>Condition No.2 Pucca approach road to project site should be constructed prior to commencing construction activity of the main distillery to avoid fugitive emissions.</p>	<p>Compliance already done.</p>
3.	<p>Condition No.3 Total fresh water requirement from Doodhganga River shall not exceed 600m³/day for sugar unit and Co-generation power plant. No ground water shall be used without permission. Effort shall be made to use recycled water from sugar and condensate of MEE for the Co-generation power unit.</p>	<p>Total fresh water requirement for 12000 TCD Sugar Unit does not exceed 600 m³/day during above said monitoring period. Also the same is being taken from Doodhganga river for which permission has already been procured. Refer Annexure – II for copy of same.</p>
4.	<p>Condition No.4 Water consumption also to be restricted to 100 liters / ton initially and further to 50 Liters/ton cane crushed in a time bound manner as per the CPCB guidelines.</p>	<p>The compliance towards condition is being followed.</p>

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5.	<p>Condition No.5 Effluent from sugar unit should be treated in the effluent treatment plant with adequate treatment with standard of 30 mg/1 of BOD. Existing ETP shall be upgraded to achieve the standard of BOD 30 mg/1.</p>	<p>The existing ETP has been upgraded in which the effluent is being treated. The parameters of treated effluent are within the prescribed limits. Online monitoring systems as well as flow meter already provided for ETP. Effluent monitoring reports are attached at Annexure – III.</p>
6.	<p>Condition No.6 As proposed, no effluent from sugar plant should be discharged outside the premises and Zero discharge shall be achieved.</p>	<p>No effluent is discharged outside Industry premises. The treated effluent is being recycled.</p>
7.	<p>Condition No.7 Bagasse/coal storage should be done in such a way that it does not get air borne or fly around due to wind.</p>	<p>Adequate measures have been taken around bagasse storage for prevention of air pollution. Therein, pucca internal roads and green belt are provided for prevention of air pollution.</p>
8.	<p>Condition No.8 Boiler ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing alongwith the storm water. Direct exposure of workers to fly ash & dust should be avoided. Bagasse ash and coal ash should be stored separately.</p>	<p>Boiler ash is transfer to ash silo through pneumatic ash handling system through closed pipe. Refer Annexure – IV for photographs of same.</p>
9.	<p>Condition No.9 Occupational health surveillance programmers should be undertaken as regular exercise for all employees. The first aid facility in the occupational health centre should be strengthened and the regular medical test records of each employee should be maintained separately.</p>	<p>Occupational health surveillance is being carried out for all employees and records are maintained. A sample copy of latest health check-up report is attached at Annexure – V.</p>
10.	<p>Condition No.10 Dedicated parking facility for loading and unloading of material should be provided in the factory premises. Unit should develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.</p>	<p>Dedicated parking facility has been provided at the factory site. Including this, good traffic management is also being implemented to prevent traffic congestion.</p>

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11.	<p>Condition No.11 All the issues raised during the public hearing / consultation meeting held on 10th July, 2015 should be satisfactorily implemented.</p>	Compliance of same is already done.																											
12.	<p>Condition No.12 As proposed, green belt over 33% of plot area shall be developed within plant premises with at least 10 meters wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.</p>	Total 61954 Nos. of tree species have been planted in the factory premises. Out of the total plot of 246 Acres (99.55 Ha.), 85 Acres (34.39 Ha.) area comes under Greenbelt. This comes to about 35% of total plot area. Details of Greenbelt are attached at Annexure – VI .																											
13.	<p>Condition No.13 At least 5% of the total cost of the project should be earmarked towards the Enterprises Social Commitment (ESC) based on local needs and action plan with financial and physical breakup / details should be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program should be ensured accordingly in a time bound manner.</p>	<p>Enterprise Social Commitment is being implemented in phase-wise manner. Following are the details of expenditure made during the monitoring period:</p> <table border="1" data-bbox="886 890 1484 1562"> <thead> <tr> <th data-bbox="886 890 967 963">Sr. No.</th> <th data-bbox="967 890 1284 963">ESC Activities</th> <th data-bbox="1284 890 1484 963">Amount</th> </tr> </thead> <tbody> <tr> <td data-bbox="886 963 967 1037">1.</td> <td data-bbox="967 963 1284 1037">Sports promotion funding</td> <td data-bbox="1284 963 1484 1037">Rs. 4.32 Lakhs</td> </tr> <tr> <td data-bbox="886 1037 967 1110">2.</td> <td data-bbox="967 1037 1284 1110">Funding for Social Activities</td> <td data-bbox="1284 1037 1484 1110">Rs. 27.97 Lakhs</td> </tr> <tr> <td data-bbox="886 1110 967 1184">3.</td> <td data-bbox="967 1110 1284 1184">Medical Aid</td> <td data-bbox="1284 1110 1484 1184">Rs. 13.1 Lakhs</td> </tr> <tr> <td data-bbox="886 1184 967 1257">4.</td> <td data-bbox="967 1184 1284 1257">Funding for Education</td> <td data-bbox="1284 1184 1484 1257">Rs. 2.47 Lakhs</td> </tr> <tr> <td data-bbox="886 1257 967 1331">5.</td> <td data-bbox="967 1257 1284 1331">Funding for Cultural Programmes</td> <td data-bbox="1284 1257 1484 1331">Rs. 0.5 Lakhs</td> </tr> <tr> <td data-bbox="886 1331 967 1404">6.</td> <td data-bbox="967 1331 1284 1404">Provision of Drinking water facility</td> <td data-bbox="1284 1331 1484 1404">Rs. 0.00 Lakhs</td> </tr> <tr> <td data-bbox="886 1404 967 1478">7.</td> <td data-bbox="967 1404 1284 1478">Drip Irrigation Subsidy</td> <td data-bbox="1284 1404 1484 1478">Rs. 40.97 Lakhs</td> </tr> <tr> <td data-bbox="886 1478 967 1562"></td> <td data-bbox="967 1478 1284 1562" style="text-align: center;">Total</td> <td data-bbox="1284 1478 1484 1562">Rs. 89.33 Lakhs</td> </tr> </tbody> </table>	Sr. No.	ESC Activities	Amount	1.	Sports promotion funding	Rs. 4.32 Lakhs	2.	Funding for Social Activities	Rs. 27.97 Lakhs	3.	Medical Aid	Rs. 13.1 Lakhs	4.	Funding for Education	Rs. 2.47 Lakhs	5.	Funding for Cultural Programmes	Rs. 0.5 Lakhs	6.	Provision of Drinking water facility	Rs. 0.00 Lakhs	7.	Drip Irrigation Subsidy	Rs. 40.97 Lakhs		Total	Rs. 89.33 Lakhs
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GENERAL CONDITIONS																													
14.	<p>Condition No. 1 The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, State Government and any other statutory authority.</p>	Compliance strictly being followed.																											

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
15.	<p>Condition No. 2 No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.</p>	<p>Compliance strictly being followed. No expansion or modifications in the plant shall be carried out without prior approval of Ministry of Environment, Forests and Climate Change (MoEFCC).</p>
16.	<p>Condition No.3 The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.</p>	<p>Compliance strictly followed Monitoring of ambient air quality is done. The monitoring reports of same are presented at Annexure – VII.</p>
17.	<p>Condition No. 4 The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.</p>	
18.	<p>Condition No. 5 The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz 75 dBA (day time) and 70 dBA (night time).</p>	<p>Compliance strictly being followed. No major noise generating source exists inthe Sugar Unit. Also, workers are provided with PPE. Overall noise levels in and around the plant area are maintained within the standards prescribed under Environment (Protection) Act, 1986, 1989 Rules.</p>
19.	<p>Condition No. 6 The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.</p>	<p>RWH plan is being implemented on site. There under, roof top water is being harvested and is utilized for domestic purpose and gardening.</p>
20.	<p>Condition No.7 Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical</p>	<p>Training sessions/workshops for employees on safety and health aspects are organized from time to time. Also, periodical medical</p>

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	examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	examination for all employees is arranged on regular basis. Onsite record of the same is maintained.																		
21.	<p>Condition No. 8 The company shall also comply with all the environmental protection measures and safeguards proposed in the document submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.</p>	<p>Compliance strictly followed. Following is the break-up for EMP:</p> <table border="1" data-bbox="886 527 1484 1157"> <thead> <tr> <th data-bbox="886 527 1101 636">Description</th> <th data-bbox="1101 527 1344 636">Capital Cost in Rs.</th> <th data-bbox="1344 527 1484 636">O & M Cost in Rs.</th> </tr> </thead> <tbody> <tr> <td data-bbox="886 636 1101 745">ETP</td> <td data-bbox="1101 636 1344 745">Rs. 155.61 Lakhs</td> <td data-bbox="1344 636 1484 745">Rs. 123.44 Lakhs</td> </tr> <tr> <td data-bbox="886 745 1101 854">APC Equipment</td> <td data-bbox="1101 745 1344 854">Rs. 381.99 Lakhs</td> <td data-bbox="1344 745 1484 854">Rs. 64.76 Lakhs</td> </tr> <tr> <td data-bbox="886 854 1101 932">Environmental Monitoring</td> <td data-bbox="1101 854 1344 932">--</td> <td data-bbox="1344 854 1484 932">Rs. 2.45 Lakh</td> </tr> <tr> <td data-bbox="886 932 1101 1041">Greenbelt</td> <td data-bbox="1101 932 1344 1041">Rs. 6.10 Lakhs</td> <td data-bbox="1344 932 1484 1041">Rs. 21.12 Lakhs</td> </tr> <tr> <td data-bbox="886 1041 1101 1157">Total</td> <td data-bbox="1101 1041 1344 1157">Rs. 543.70 Lakhs</td> <td data-bbox="1344 1041 1484 1157">Rs. 211.77 Lakhs</td> </tr> </tbody> </table>	Description	Capital Cost in Rs.	O & M Cost in Rs.	ETP	Rs. 155.61 Lakhs	Rs. 123.44 Lakhs	APC Equipment	Rs. 381.99 Lakhs	Rs. 64.76 Lakhs	Environmental Monitoring	--	Rs. 2.45 Lakh	Greenbelt	Rs. 6.10 Lakhs	Rs. 21.12 Lakhs	Total	Rs. 543.70 Lakhs	Rs. 211.77 Lakhs
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22.	<p>Condition No. 9 The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.</p>	Please refer compliance under Specific Condition No. 13 above.																		
23.	<p>Condition No. 10 The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.</p>																			
24.	<p>Condition No. 11 A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental management and Monitoring function.</p>	A separate Environment Management cell is already established. Refer Annexure – VIII for same.																		
25.	<p>Condition No. 12 The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by</p>	Please refer compliance under General Condition No. 9 above.																		

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	
26.	<p>Condition No. 13</p> <p>A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation. Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p>	The condition is complied with necessary action.
27.	<p>Condition No.14</p> <p>The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.</p>	Regular Six Monthly Compliance reports have been submitted and copies of same are also displayed on company website. The following is the link company's website http://www.jawaharsugar.com/ Refer Annexure – IX for Acknowledgment of previous Six Monthly Compliance report.
28.	<p>Condition No.15</p> <p>The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.</p>	Compliance is being done. Refer Annexure – X for acknowledgment copies.
29.	<p>Condition No. 16</p> <p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB / Committee and may also be seen at Website of the Ministry at http://moef.nic.in. This shall be</p>	Compliance already done.

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	
30.	<p>Condition No. 17</p> <p>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</p>	Date of financial closure in connection with the Industrial Project is 31 st March.

Annexure – I

Photographs of ESP, Stack



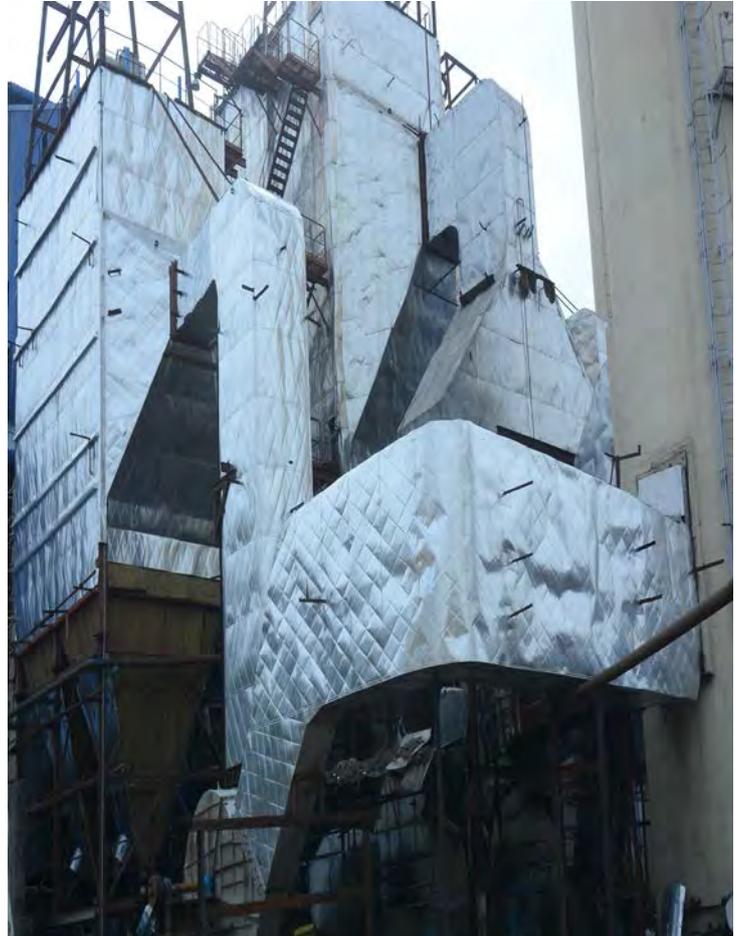
90, 20 & 75 M.T. /hr capacity
Boiler Chimney.
75 Mtr. and 72 Mtr.
Height respectively

Electro Statik Precipitator for
90 M.T./hr Boiler Capacity





Electro Static Precipitator for
75 M.T/hr Boiler Capacity



Electro Static Precipitator
for 20 M.T/hr Boiler
Capacity



Dust monitor unit for Total Particulate Matter for 75 mtr.height stack



Analyzer for outlet Treated Water - for parameter pH, T.S.S, C.O.D & BOD measurement.



Dust monitor unit for Total Particulate Matter for stack



Dust monitor unit for Total Particulate Matter for 72 mtr.height stack

Annexure – II

Fresh Water Requirement



CE
for needful attention.
CEB Society
13/12/17

महाराष्ट्र कृषा खोरे विकास महामंडळ
मुख्य अभियंता (जसं), जलसंपदा विभाग, पुणे
सिंचन भवन, मंगळवार पेठ, बारणे रोड, पुणे- ४११०११
कार्यालय (०२०) २६१२०५०५ / २६१२५०७४ फॅक्स (०२०) २६१२६०१५

जा.क्र.मुअ(जसं)/(२१६/२०१७)/प्रशा-७/ No 0 5 1 8 8 दिनांक - - 7 DEC 2017

ज्ञापन :

विषय : दूधगंगा प्रकल्पातून जवाहर शेतकरी सहकारी साखर कारखाना लि. हुपरी
ता.हातकणंगले, जि.कोल्हापूर या संस्थेसाठी मंजूर बिगर सिंचन आरक्षणांमधून पाणी मागणी
कमी करून मिळणेबाबत.

- संदर्भ : १) प्रदेश कार्यालयाचे ज्ञापन क्र.सिंचन / काअ-२/ मुदका / ५०१६ दि.१९ / ७ / २००७
२) अधीक्षक अभियंता कोल्हापूर पाटबंधारे मंडळ कोल्हापूर जा.क्र.कोपामं/ प्रशा/कक्ष-१/६९३२
दि.१३ / ११ / २०१७
३) शासन पत्र क्र. बीकेएस२०१३/(२८१/१३) सिं. व्य. (धो) दि. ११/११/२०१६

उपरोक्त संदर्भ क्र.२नुसार दूधगंगा प्रकल्पातून जवाहर शेतकरी सहकारी साखर कारखाना लि. हुपरी
ता.हातकणंगले, जि.कोल्हापूर या संस्थेच्या मंजूर बिगर सिंचन पाणी आरक्षण कोट्यात कपात करून मिळणेबाबत
संबंधित संस्थेच्या मागणीनुसार प्रस्ताव शिफारशीसह मान्यतेसाठी प्राप्त झाला आहे .

शासनाने सदर्थ क्र.३अन्वये दिलेल्या प्रधिकारानुसार संस्थेच्या मंजूर बिगर सिंचन पाणी आरक्षण कोट्यात
कपात करून खालिलप्रमाणे सुधारित बिगर सिंचन पाणी आरक्षणास मंजूरी देण्यात येत आहे.

अ क्र	पाणी वापर	मुळ पाणी मंजूरी			कमी करणेची मागणी			सुधारित पाणी वापर मागणी		
		पिण्यासाठी	औद्योगिक	एकुण	पिण्यासाठी	औद्योगिक	एकुण	पिण्यासाठी	औद्योगिक	एकुण
	निव्वळ वापर	०.११०	०.१६८	०.२७८	०.०१०	०.१२८	०.१३८	०.१००	०.०४	०.१४०
	तुट	०.०२२	०.०३३	०.०५५	०.००२	०.०२५	०.०२७	०.०२०	०.००८	०.०२८
	एकुण	०.१३२	०.२०१	०.३३३	०.१२०	०.१५३	०.१६५	०.१२०	०.०४८	०.१६८

सदर संस्थेचे सुधारित बिगर सिंचन आरक्षण खालील अटी व शर्तीनुसार मंजूर करण्यांत येत आहे.

अटी व शर्ती :-

- उपरोक्त शासनाच्या संदर्भ क्र.३ च्या पत्रामध्ये सूचित केल्याप्रमाणे ई -जलसेवा प्रणालीतील माहितीत आवश्यक सुधारणा करावी.
- अर्जदार संस्था स्वखर्चाने संबंधित योजना कार्यान्वित करेल.
- योजनेचे कामास प्रत्यक्ष सुरुवात करण्यापूर्वी जलसंपदा विभागाचे संबंधित कार्यकारी अभियंतांचे बरोबर शासन परिपत्रक क्र.बिपापु-१००१/(७१३/२००१)/सिं.व्य.(धो), दिनांक ११/६/२००३ सोबतच्या विहित मसुद्यानुसार करारनामा करावा लागेल. करारनामा केल्यानंतरच पाणी परवाना मंजूरी कार्यान्वित होईल.
- शासनाचे प्रचलित नियमाप्रमाणे पाणीपट्टी धरणे, इलेक्ट्रॉनिक जलमापन यंत्र बसविणे संस्थेस बंधनकारक राहिल. संस्थेने आरक्षित केलेल्या पाण्यावर शासन निर्णयाच्या प्रचलित दराने पाणीपट्टी आकारण्यात येईल.

सहायक
अ.

सुच
२०१७

JAWAHAR SSK LTD., HUPARI
I/W No. 94940 Date: 23/12/17
Sent to _____
Authorised Signature

शासनाने वेळोवेळी ठरवून दिलेल्या पाणीपट्टीच्या दरानेच पाणी पुरवठ्याची आकारणी केली जाईल आणि विहित मुदतीत ही पाणी आकारणी अर्जदार संस्थेने जलसंपदा विभागाकडील संबंधित कार्यालयामध्ये भरावी लागेल. पाणीपट्टी आकारणी ही एकुण पाणी वापरावर करण्यांत येईल.

- ५) योजनेत वापरलेल्या पाण्यातील काही भाग वापरानंतर दुषित स्वरूपात जलाशयांत / कालव्यात / नदीत सोडले न जाण्याची व्यवस्था अर्जदार स्वखर्चाने करेल व त्याबाबत अर्जदार पूर्णतः जबाबदार राहिल. अशाप्रकारे वापरलेल्या पाण्याची शुद्धीकरण व्यवस्था अर्जदार संस्थेने स्वखर्चाने करावी लागेल व त्याची विल्हेवाट लावण्याचे संदर्भात महाराष्ट्र जलप्रदुषण मंडळाचे ना-हरकत प्रमाणपत्र करारनामा करण्यापूर्वी सादर करावे लागेल.
- ६) संस्थेने ३ वर्षांच्या आत मंजूर पाणी आरक्षणापैकी कमीत कमी २० टक्के पुनर्वापराचे पाणी उपलब्ध करून घेणे बंधनकारक आहे. त्यासाठी संस्थेने सांडपाणी शुद्धीकरण प्रक्रिया करणारी यंत्रणा बसवावी. तसेच याबाबतच्या सविस्तर प्रस्तावाची माहिती जलसंपदा/पर्यावरण विभागांस विहित करारनामा करतेवेळी देणे आवश्यक आहे. अन्यथा पाणी आरक्षण आपोआप रद्द होईल. पुनर्वापराचे उर्वरित पाणी नदी/नाल्यात सोडल्यानंतर त्यावर जलसंपदा विभागाचा हक्क राहिल. पुनर्वापराचे उपलब्ध पाणी संस्थेस परस्पर विल्हेवाट लावता येणार नाही.
- ७) जलस्रोत प्रदुषित करणा-या पाणी वापरकर्त्याकडून दंडनीय पाणीपट्टी आकारणी करणेबाबत मार्गदर्शक तत्वे शासन निर्णय, क्रमांक/पापव-२०१५/ (प्र.क्र.८८/२०१५) सि.व्य. (महसूल), दि.२१.०४.२०१६ मधील अटीचे पालनकरणे पाणी वापरकर्त्यांना बंधनकारक राहिल. व यासंदर्भात वेळोवेळी निर्गमित होणारे शासन निर्णयानुसार अंमलबजावणी करणे बंधनकारक राहिल.
- ८) योजनेच्या पाईपलाईन, जकवेल, इनटेक वेलसाठी लागणा-या जमिनीची व्यवस्था करण्याची जबाबदारी संस्थेची असेल. ज्या जागेचा संस्थेने विकास केलेला आहे, त्या जागेतील इमारतीवरील व पेवमेंट केलेल्या मोकळ्या जागेवरील पावसाचे पाणी साठवण करावे (Rain water harvesting) आणि अशा पाण्याचा वापर भूजल पुनर्भरण व गार्डनिंग इत्यादीसाठी करण्यात यावा.
- ९) ही मंजूरी म्हणजे पाणी पुरवठ्याची हमी नव्हे. नैसर्गिक किंवा इतर काही अपरिहार्य कारणामुळे तलावात पाणी कमी पडल्यास मंजूर पाणी पुरवठ्याबाबत शासन जबाबदार राहणार नाही. कमी पाणी उपलब्धतेच्या वर्षात त्या वर्षापुरती मंजूर पाणी पुरवठ्यात कपात करण्याचा अधिकार जलसंपदा विभागाच्या कार्यकारी अभियंतांना राहिल. परिणामी कोणत्याही प्रकारच्या नुकसानीची जबाबदारी शासनावर राहणार नाही. उदभव ठिकाणी पाण्याची कमतरता असल्यास संस्थेस आरक्षित पाण्याची शाश्वती देता येणार नाही.
- १०) जलाशयातील / कालव्यातील पाण्याच्या दर्जा / गुणवत्तेबाबत जलसंपदा विभाग जबाबदार राहणार नाही, व त्यास जबाबदारही धरता येणार नाही.
- ११) पाणी जलाशय/कालवा/नदी मधून थेट उचलावे लागेल. तलावाचे निम्न पातळी तलाकापर्यंत पाणी जकवेलमध्ये घेण्याची व्यवस्था करावी लागेल व पाणी पुरवठ्याचे तसेच योजनेच्या बांधकामाचे संबंधात आराखड्यास जलसंपदा विभागाच्या कार्यकारी अभियंता यांची बांधकामापूर्वी पूर्व सहमती घ्यावी लागेल. व त्यास जलसंपदा विभागाचे प्रचलित नियम तसेच शासन/महामंडळाने वेळोवेळी मंजूर केलेले नियम व अटी अर्जदार संस्थेवर बंधनकारक राहतील.
- १२) जलमापनाची व जलमापन मीटर व्यवस्था तपासण्याचा अधिकार शासनास राहिल. ह्या व्यवस्थेवर आधारित पाणी वापराचा दैनंदिन अभिलेख संस्थेने ठेवावा हा अभिलेख शासनाचे अधिकारी केंव्हाही पाहू शकतील, हा अभिलेख नीट ठेवल्याचे दिसून न आल्यास प्रत्यक्षांत केलेल्या पाणी वापरासंबंधीचा अंदाज जलसंपदा विभागाचे कार्यकारी अभियंता ठरवतील व हा अंदाज अंतिम राहिल व संस्थेवर तो बंधनकारक राहिल.
- १३) पाणीपट्टीची वसुली भविष्य काळात प्रभावीपणे होण्याचे दृष्टीने शासन व संबंधित संस्था यांचेमध्ये द्विपक्षीय करार करण्यात येईल.

- १४) नदी उद्भव असल्याने ज्या नदीत बारमाही पाणी सोडले जाते त्या नदीवरील पाणीपुरवठा योजनेसाठी १ महिन्यांच्या गरजेएवढी साठवण क्षमता व इतर नद्याबाबत ४ महिन्यांच्या गरजेएवढी साठवण क्षमता असणारा तलाव बांधणे आवश्यक राहिल.
- १५) पाणीपट्टी वेळेत भरली नाही तर, पाणी पुरवठा खंडीत करण्याचा अधिकार शासनास राहिल.
- १६) संस्थेने २ महिन्यांची पाणीपट्टी इतकी अनामत रक्कम शासनाकडे आगाऊ भरणे आवश्यक आहे. तसेच संस्थेने जलमापन यंत्रासाठी महाराष्ट्र जीवन प्राधिकरण याच्या प्रचलित दरसूचीनुसार दर + १५% अतिरिक्त कार्यालयीन खर्च इतकी परिगणित रक्कम अनामत ठेव स्वरूपात करारनामा करतेवेळी जमा करावी.
- १७) संस्थेने १ महिन्यांच्या आत स्वर्चाने योजना कार्यान्वीत होण्यापूर्वी जलमापन यंत्र बसविण्याची व्यवस्था करावी. संस्थेने विहित वेळेत मीटरची व्यवस्था न केल्यास विभागीय कार्यालयाने जलमापन यंत्रणेच्या अनामत ठेव रक्कमेतून जलमापन यंत्र बसविण्याची कार्यवाही करावी. त्यासाठी कमी/अधिक रक्कम लागल्यास बिगर सिंचन देयकामध्ये वळती करावी. प्रत्यक्ष जलमापन यंत्र बसविल्याशिवाय योजना कार्यान्वीत करण्यास परवानगी देण्यात येऊ नये.
- १८) प्रथम पाणी वापर करण्यास परवानगीचे इरादपत्र (लेटर ऑफ इंटेंट) देण्यात यावे व करारनामा करण्याकरीता ३ वर्षांची मुदत ठेवावी. करारनामा झाल्यानंतर प्रत्यक्ष पाणी परवाना दिल्याचे प्राहय मानण्यात येईल. सदर करारनामा इरादापत्र दिल्याच्या दिनांकापासून १ वर्षात करण्यात आला तर त्यासाठी सुरक्षा ठेव व्यतिरिक्त कोणतेही शुल्क आकारण्यात येणार नाही. तथापि, जर इरादपत्र दिल्याच्या दिनांकापासून १ वर्षात करारनामा केला नाही, तर दुस-या वर्षी करारनामा करताना मागील १ वर्षाचा बांधिलकी/लेखबद्ध आकार (Commitment Charges) लावून करारनामा करावा. मात्र २ वर्षांनंतर करारनामा करावयाच्या झाल्यास त्यास शासनाची/महामंडळाची मंजूरी पुनःश्च घेणे व मागील २ वर्षाचा बांधिलकी/लेखबद्ध आकार लावून करारनामा करणे बंधनकारक राहिल. करारनामा करण्याची कमाल मर्यादा ३ वर्षांची राहिल. ३ वर्षांच्या कालावधीत करारनामा न केल्यास पाणी आरक्षण आपोआप रद्द होईल. त्याप्रकारचे आदेश मुख्य अभियंता यांच्याकडून काढले जातील.
- १९) बिगर सिंचन पाणी वापराचे करारनामे करणे व नूतनीकरण वेळेवर करणेबाबत मार्गदर्शक सूचना शासन परिपत्रक क्रमांक पापव-२०१५/ (प्र.क्र.४००/२०१५)/सि.व्य.म, दि.१५.१२.२०१५ नुसार कार्यवाही करावी.
- २०) करारनामा करणेपूर्वी संस्थेने संपूर्ण थकबाकी भरणे आवश्यक आहे.
- २१) सदरचे आदेश करारनामा झाल्यापासून अंमलात येतील.

मुख्य अभियंता (जसं),
जिल्हा जलसंपदा विभाग, पुणे
२०१५ १५ ११/२०१७

- प्रत : मा.कार्यकारी संचालक, महाराष्ट्र कृष्णा खोरे विकास महामंडळ, पुणे यांना माहितीसाठी सविनय सादर.
- प्रत : अधिक्षक अभियंता कोल्हापूर पाटबंधारे मंडळ कोल्हापूर यांना माहितीसाठी व पुढील कार्यवाहीसाठी अग्रेषित.
सोबत : प्रस्ताव २ प्रती
- प्रत : कार्यकारी अभियंता, कोल्हापूर पाटबंधारे विभाग(उत्तर), कोल्हापूर यांना माहितीसाठी व कार्यवाहीसाठी.
- १) शासन परिपत्रक विपापु-१००१/(७१३/२००१)/सि.व्य.(धो), दिनांक ११/६/२००३ व प्रचलित नियमानुसार बिगर सिंचन करारनामा करण्याची उचित कार्यवाही करण्यात यावी.
 - २) करारनाम्याचे नूतनीकरण करणेपूर्वी शासनाचे उपरोक्त अटी व शर्तीचे काटेकोरपणे पालन होणे महत्वाचे आहे.
 - ३) पाणी परवाने हे शासनाला महसूल मिळवून देण्याचे साधन आहे. त्यामुळे महसूल वसुलीबाबत काटेकोरपणे व सतर्क राहणे अत्यंत महत्वाचे आहे.

प्रत :- बृहत् धारिका. सन २०१७ करीता.

Annexure – III

Photographs of ETP



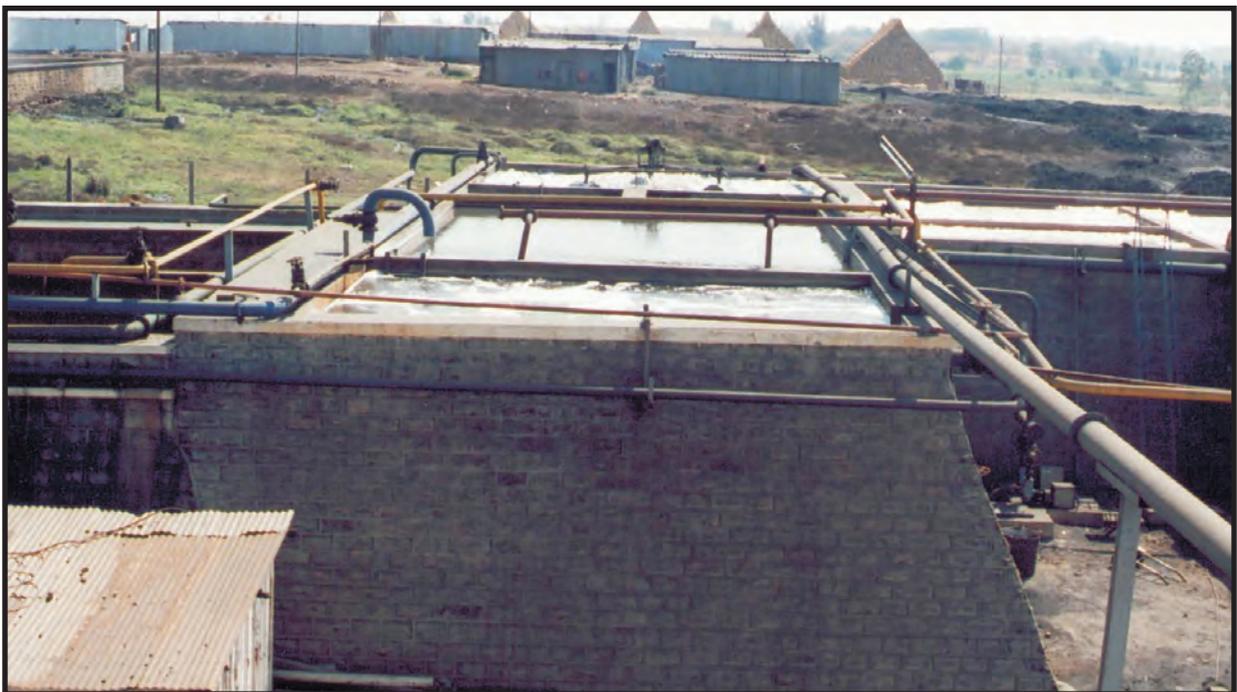
Floating aerator



New diffuse aeration tank



New anaerobic counter current digester 70 M³/hr. and preareation tank outlet



Floating areator, sludge seperator & return sludge to digester & preareation tank



Old diffuse aeration tank



Secondary clarifier new stream



Treated Water outlet Tank



System for Treated Water Monitoring



Treated Water disposal system



Secondary clarifier old stream



Tertiary system to streams 100 M³/hr. each
Power sand filter followed by plant based activated carbon & polishing unit comprising high grade anthracite and activated carbon



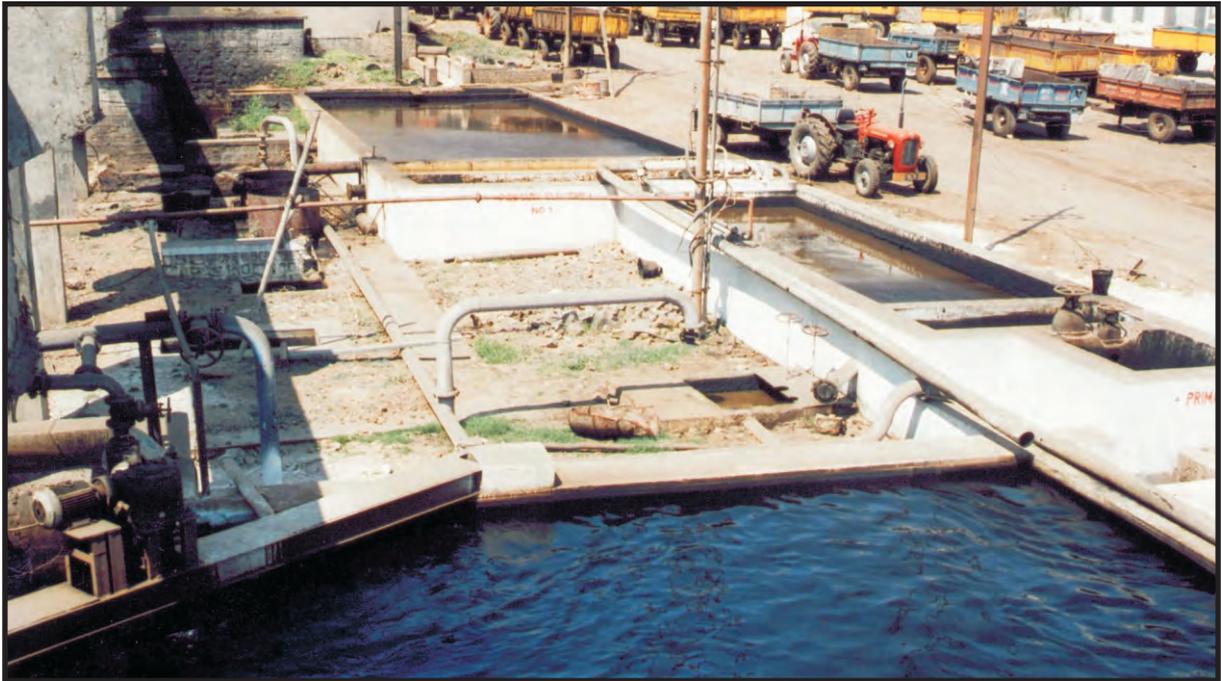
Electric energy meter for E.T.P.



Sludge Drying Bed



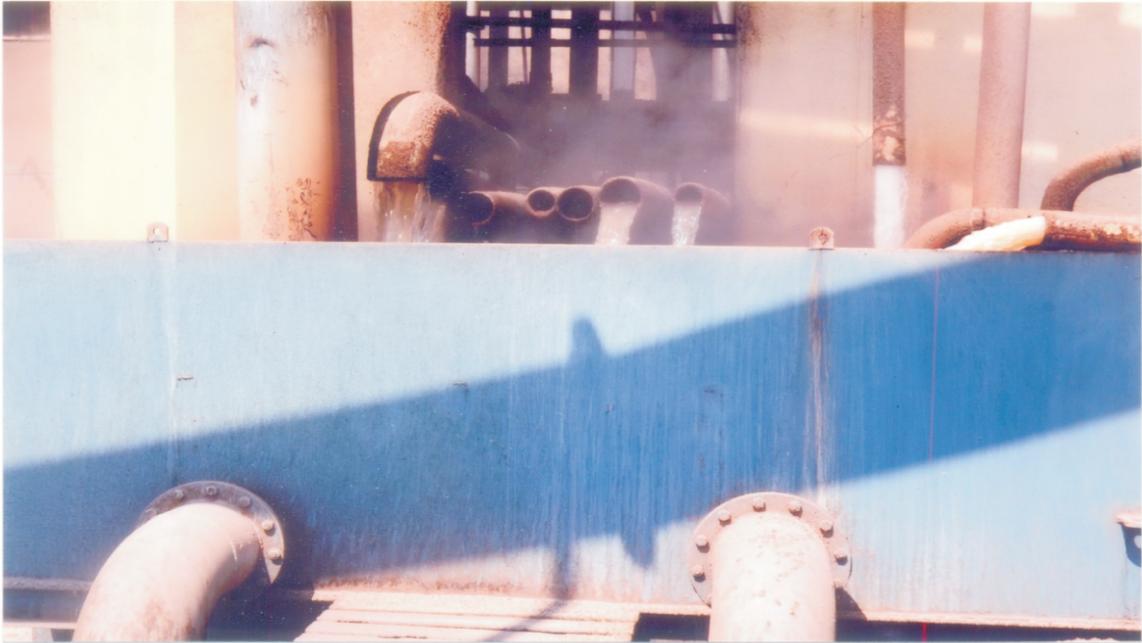
R.C.C. with Geomembrane paper lining laid for Lagoon No.1



Two stage primary to remove oil & sludge and old equalization tank



New equalization tank and feeding system to old and new stream
20 M³/hr.+ 70 M³/hr.



Mini spray-inlet sump (All excess vapour condensate & cooling water)



Mini spray pond
capacity 10200 M³/day water recycle
inlet temprature 58°C to 60°C outlet temperature 28 to 30°C



Sensor for outlet Treated Water -for parameter pH, T.S.S, C.O.D & BOD measurement.



Flow meter for outlet Treated Water

Annexure – IV

Photograph of Ash Collector



Boiler Ash handling system

Annexure – V

Health Surveillance Details

JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

Shri Kallappa Anna Awadenagar, Hupari-Yalgud 416 203, Tal.: Hatkanangale, Dist.: Kolhapur. (Maharashtra)
Phone : (0230) 2450402 (5 Lines), Fax (0230) 2450401, E-mail : kprjsssk@gmail.com

LWO/ 4148/2018-19

Date.- 24/07/2018

To,
The Deputy Director,
Industrial Safety & Health,
Zilha Udyog Bhavan,
Near Collector Office,
KOLHAPUR.

Sub. : - Submission of form No. 7.

Dear Sir,

We have conducted medical check-up of our employees and the Certifying Surgeon has issued us form No. 7 as per rules of 'The Maharashtra Factories Rules, 1963.' We herewith enclose the photo copy of the same (48 pages) for your record & perusal.

Thanking you,

Yours faithfully,

For Jawahar S.S.S.K.Ltd.,

(M.G.Joshi)

Managing Director

Encl. : A/a

औद्योगिक सुरक्षा व आरोग्य संचालनालय,
स. नं. २५४, उद्योग भवन, असेंब्ली रोड,
जिल्हाधिकारी कार्यालयाजवळ, कोल्हापूर.
पिन कोड नं. ४१६ ००३.

Form No 7 (Prescribed under Rule 18 (17))

HEALTH REGISTER

From: 05/07/2018 To 04/07/2019

Certifying Surgeon
DR. ARVIND MANE
MBBS DPH AFIP (Mumbai)

Company Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Sr. No.	Emp. No.	Name	Age	Sex	Dept of employment of present work	Date of leaving or transfer to other work	Reason for leaving Transfer of discharge	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work, state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness or suspension issued to worker	Signature with gate certifying surgeon.
1	2102	MR. DILIP D. PATIL	58	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
2	1734	MR. CHANDRAKANT M. MALI	49	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
3	943	MR. VIITHAL G. MORE	52	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
4	1778	MR. PRAVIN M. GHAT	39	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
5	1360	MR. SURESH K. KORE	51	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
6	145	MR. KRUSHNAT INGALE	49	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
7	1346	MR. PARGONDA N. PATIL	46	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
8	729	MR. BHARAT D. KAMBLE	56	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
9	1436	MR. SHARAD A. MUDAGAL	45	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
10	885	MR. ASHOK G. CHAVAN	47	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
11	1024	MR. NARSU MORE	51	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
12	1441	MR. PRAKASH M. CHAVAN	46	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
13	630	MR. ASHOK NARSAI	48	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
14	795	MR. RAFIK BASAPURE	44	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
15	2119	MR. MAHADEV A. KHOT	34	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
16	1852	MR. PRAMOD S. PATIL	39	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
17	1902	MR. SIDU MADHALE	36	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
18	911	MR. KUBER B. PATIL	45	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	
19	482	MR. HINDURAO N. PATIL	51	M	-	NA	NA			05/07/2018	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम १०(२) प्रमाणे
कोल्हापूर जिल्हाकरिता
प्राधिकृत प्रमाणक शाल्यचिकित्सक
ACS 15-AM/2016

Annexure – VI

Green Belt Details

इनव्हीरॉनमेंट इंजिनियर
यांचेकडे-

विषय : गार्डन विभागाकडील क्षेत्र निहाय झाडांची माहिती.

महोदय,

आपले दि. ०७-०३-२०१९ च्या डी.पी. नुसार गार्डन विभागाकडील झाडांची क्षेत्रवाईज माहिती खालीलप्रमाणे-

अ.न.	गट नं.	झाडांचे क्षेत्र	एकर गुठे
१	१२५८	खोपी तळ पूर्व बाजू बांबू रोपे	१.२०
२	१२५८	खोपी तळ	२२.३६
३	३१५/८,९	कॉलनीतील झाडे	५.००
४	३१५/११	केनयार्ड पश्चिम बाजू	३.३०
५	३१५/९,१०	ऑफीस मागील आंबा व गुलाब	३.००
६	३१५/१०	स्टेज परिसर	२.११
७	३१५/९, ९२५/९	मेन रोड साईट दोन्ही बाजू	१.१३
८	३१५/१४	राख अड्डा	०.१३
९	३१५/१४	हमाल शेड निलगिरी प्लॉट	४.२६
१०	३१५/१४	हमाल शेड जंगली झाडे	४.१६
११	३१५/११	आतील गेट परिसर	०.०३
१२	३१५/१४	स्विचयार्ड बैलगाडी अड्डा	०.२२
१३	३१५/११	तळ्याभोवतीचे क्षेत्र गोडा.१३ मागे	२.१०
१४	३१५/७	पेट्रोल पंप	०.०५
१५	३१५/८	कंपोस्ट यार्डातील बांबू	२.२५
१६	३१५/७,८,९	बियाणे मळा	१३.३०
१७	९२५/९	फ्लॉवर बेड	०.११
१८	३१५/९	गेस्टहाऊस, बोर्डरूम परिसर	०.१२
१९	९२५/९	करंज,चिक्कू,आंबा परिसर	२.०२
२०	९२५/९	म्हसोबा मंदीर परिसर	६.००
२१	९२५/९,३१५/९	राजराजेश्वरी मंदीर ते बियाणे मळा नारळ, अशोक	१.३१
२२	९२५/९	कॅनॉल बाजू नारळ, अशोक झाडे	१.०८
२३	९२५/९,३१५/९	गेटबाहेरील दोन्ही क्रॉसबेड	०.०८
२४	९२५/९	मंदीर परिसर	१.१०
२५	९२५/९	केनयार्ड ते राजराजेश्वरी मंदीर रोड	०.२२
२६	९२५/९	ट्रॅक्टर अड्ड्यातील झाडे	२.३६
		एकूण-	८५.००

मुख्य शेती अधिकारी

जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी,

श्री कल्लाप्पाणा आवाडेनगर, हुपरी-यळगूड : ४१६ २०३, ता. हातकणंगले, जि. कोल्हापूर (महाराष्ट्र)

फोन नं. (०२३०)२४५०४०२ ते ६, फॅक्स नं.(०२३०)२४५०४०१,

ई-मेल : kprjssk@gmail.com

कारखाना कार्यस्थळांवर असलेल्या विविध झाडांची माहिती

सन २०१८-१९

दि. ०७/०३/२०१९

अ.नं.	तपशील	संख्या
अ)	फळझाडे	
१	नारळ	६१३
२	आंबा	३५०
३	चिक्कू	१५६
	एकूण -	१११९
ब)	जंगली झाडे	
१	रेनट्री	२३९५
२	कॅशिया	१७५२
३	चिंच	७८
४	कदंब	१७
५	जाक्रांडा	३५
६	बेहडा	१०
७	सप्तपर्णी	२७
८	ब्रासिया	१७
९	सागवान	१४
१०	सुरू	२०००
११	निंब व इतर	२७९८
१२	ट्यूबोबिया	२०
१३	कारडिया	३५
१४	गोरमचिंच	५५८
१५	सिल्वरओक	३९०
१६	मोहगणी	६
१७	वड	७०
१८	पिंपळ	१२५
१९	निलमोहर	३
२०	बहावा	१४०
२१	गुलमोहर	४०९
२२	कांचन	१३३
२३	निलगिरी	३४३०
२४	उंबर	१०
२५	फणस	१५
२६	बेल	२०
२७	ऑस्ट्रेलियन बाभळ	३००

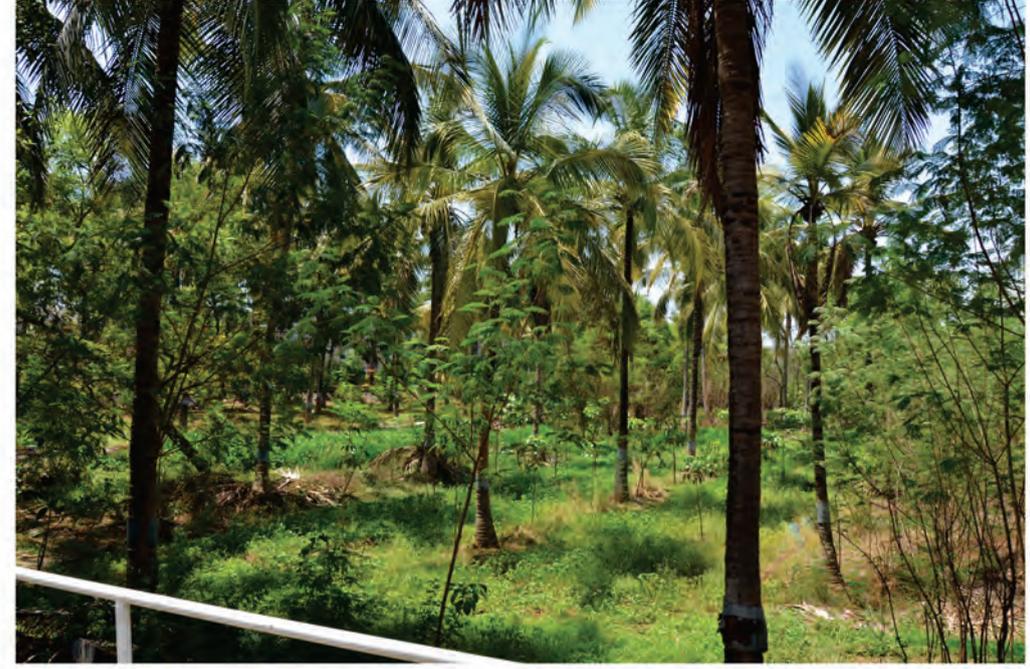
अ.नं.	तपशील	संख्या
२८	गूळभेंडी	५०७
२९	करंज	१२१९
३०	जांभूळ	१००
३१	प्लेटोफोरम	२५०
३२	बांबू	२७६३४
३३	काटेसावर	१७०
	एकूण	४५०६८
क)	शोभीवंत झाडे	
१	बॉटल पाम	९०
२	अशोक	७०३
३	मोरपंखी	१०८
४	फायकस	१६७
५	बोगनवेली	१४४०
६	एक्झोरा	७२
७	चाफा	५३
८	आरेकापाम	४६०५
	एकूण -	७२३८
ड)	फूलझाडे	
१	गुलाब	६५५
२	इतर फुलझाडे	५३००
३	शोभीवंत कुंड्या	५६४
४	कणेरी	१६७०
५	शंकासूर	३४०
	एकूण -	८५२९
	समरी	
अ	फळझाडे	१११९
ब	जंगली झाडे	४५०६८
क	शोभीवंत झाडे	७२३८
ड	फूलझाडे	८५२९
	एकूण -	६१९५४


मुख्य शेती अधिकारी

Avenue Plantation in JSSSKL's Factory Premises



Mass Plantation in JSSSKL's Factory Premises



Roadside Plantation in JSSSKL's Factory Premises



Roadside Plantation in JSSSKL's Factory Premises



Annexure – VII

Monitoring Reports

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: NOVEMBER 29, 2018

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/ 544
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	20.11.2018

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	02:30 P.M.	
03	Ambient Temperature	31.0 °C	
04	Dry Bulb Temperature	30.0 °C	
05	Wet Bulb Temperature	23.0 °C	
06	Relative Humidity	55 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	23.10 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	07.69 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	20.34 µg/cum	80 µg/cum

Note:

- The analysis has been conducted in a MoEFCC: New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.
- Calibration Details**
Instrument Used: Respirable dust sampler
Model & Serial No.: Polltech Make Model Sr. No. - 0118
Calibration Date: 01.08.2018
Next Calibration Due Date: 31.07.2019

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: NOVEMBER 29, 2018

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/545
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	20.11.2018

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	02:50 P.M.	
03	Ambient Temperature	31.0 °C	
04	Dry Bulb Temperature	30.0 °C	
05	Wet Bulb Temperature	23.0 °C	
06	Relative Humidity	55 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	33.25 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	11.67 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	28.74 µg/cum	80 µg/cum

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.
- Calibration Details**
Instrument Used: Respirable dust sampler
Model & Serial No.: Polltech Make Sr. No. -0218.
Calibration Date: 01.08.2018.
Next Calibration Due Date: 31.07.2019.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: NOVEMBER 29, 2018

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/546
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	20.11.2018.
Time:	3:00 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	64.4	75
02	Near ETP	72.8	75
03	Bagas Section	70.6	75
04	Godown	72.3	75
05	Ken Yard	76.9	75

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time
- Calibration Details:
Instrument Used: Digital Sound Level Meter. (N520311)
Make: HTC Instruments
Calibration Date: 10.05.2018.
Next Calibration Due Date: 09.05.2019.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY,
PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK,
PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: NOVEMBER 29, 2018

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/547
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	20.11.2018.
Time:	03:20 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal	84.3	90
02	Turbine	86.8	90
03	Near Boiler	86.5	90
04	Mill	80.3	90
05	Pan Section	81.6	90

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).
- **Calibration Details:**
Instrument Used: Digital Sound Level Meter. (N520311)
Make: HTC Instruments
Calibration Date: 10.05.2018
Next Calibration Due Date: 09.05.2019

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: NOVEMBER 29, 2018

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2018.19/548
Client:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Location:	Effluent Treatment Plant.
Plant Condition:	ETP in Operation.
Date of Sampling:	20.11.2018
Analysis Date:	22.11.2018
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

S.R. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	4.22	7.87	--	--
02	Suspended Solids (SS)	105.00	54.00	100	mg / lit
03	Total Dissolved Solids (TDS)	1402.00	760.00	2100	mg / lit
04	Chemical Oxygen Demand (COD)	5248.00	76.80	250	mg / lit
05	Biochemical Oxygen Demand (BOD)	2160.10	24.60	30	mg / lit
06	Chlorides as Cl ⁻	67.00	32.40	600	mg / lit
07	Sulphates as SO ₄ ²⁻	45.00	16.00	1000	mg / lit
08	Oil & Grease	2.40	NIL	10	mg / lit

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: NOVEMBER 29, 2018

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/549
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	20.11.2018

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	04:00 P.M.	
03	Ambient Temperature	29.0 °C	
04	Dry Bulb Temperature	29.0 °C	
05	Wet Bulb Temperature	23.0 °C	
06	Relative Humidity	61 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	58.62 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	20.85 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	30.14 µg/cum	80 µg/cum

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: NOVEMBER 29, 2018

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/550
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	20.11.2018
Time :	04:30 P.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 1
02	Material of Stack	RCC
03	Stack Height from Ground Level	75 M
04	Type of Stack	Round
05	Flue Gas Temperature	110 °C (383 K)
06	Differential Pressure	2.80 mm Wg
07	Velocity	6.22 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m ²
10	Gas Volume	306395.99 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	79.02 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	48.52 mg/Nm ³
		356.79 Kg /Day

Note:

- The analysis has been conducted in a MoEF; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.
- **Calibration Details:**
Instrument Used: Stack Monitoring Kit.
Model & Serial No.: Ecotech Model, Sr.No. 14-B-85
Calibration Date: 27.02.2018
Next Calibration Due Date: 26.02.2019

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY,
PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: NOVEMBER 29, 2018

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/550A
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	20.11.2018
Time :	05:15 P.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 2
02	Material of Stack	RCC
03	Stack Height from Ground Level	72 M
04	Type of Stack	Round
05	Flue Gas Temperature	138 °C (411 K)
06	Differential Pressure	2.70 mm Wg
07	Velocity	6.33 m/sec
08	Stack Diameter	3.0 m
09	Stack Area	7.0650 m ²
10	Gas Volume	116838.14 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	72.80 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	34.20 mg/Nm ³
		95.90 Kg /Day

Note:

- The analysis has been conducted in a MoEF; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.
- **Calibration Details:**
Instrument Used: Stack Monitoring Kit.
Model & Serial No.: Ecotech Model, Sr.No. 14-B-85
Calibration Date: 27.02.2018
Next Calibration Due Date: 26.02.2019

Sef.
Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: DECEMBER 28, 2018

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/690
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.12.2018

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	03:45 P.M.	
03	Ambient Temperature	30.0 °C	
04	Dry Bulb Temperature	29.0 °C	
05	Wet Bulb Temperature	22.0 °C	
06	Relative Humidity	53 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	32.15 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	08.58 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	26.34 µg/cum	80 µg/cum

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.
- Calibration Details
Instrument Used: Respirable Dust Sampler
Model & Serial No.: Polltech Make Model Sr. No. - 0118
Calibration Date: 01.08.2018
Next Calibration Due Date: 31.07.2019

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: DECEMBER 28, 2018

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/691
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.12.2018

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	03:55 P.M.	
03	Ambient Temperature	30.0 °C	
04	Dry Bulb Temperature	29.0 °C	
05	Wet Bulb Temperature	22.0 °C	
06	Relative Humidity	53 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	25.46 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	17.81 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	34.02 µg/cum	80 µg/cum

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.
- Calibration Details**
 Instrument Used: Respirable Dust Sampler
 Model & Serial No.: Polltech Make Sr. No. -0218.
 Calibration Date: 01.08.2018.
 Next Calibration Due Date: 31.07.2019.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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DATE: DECEMBER 28, 2018

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/692
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.12.2018

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	05:05 P.M.	
03	Ambient Temperature	27.0 °C	
04	Dry Bulb Temperature	27.0 °C	
05	Wet Bulb Temperature	22.0 °C	
06	Relative Humidity	65 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	61.34 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	21.87 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	32.01 µg/cum	80 µg/cum

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.
- Calibration Details
Instrument Used: Respirable Dust Sampler
Model & Serial No.: Polltech Make Sr. No. -0218.
Calibration Date: 01.08.2018.
Next Calibration Due Date: 31.07.2019.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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- Website : www.equinoxenvi.com
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DATE: DECEMBER 28, 2018

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/693
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.12.2018
Time :	04:10 P.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 1
02	Material of Stack	RCC
03	Stack Height from Ground Level	75 M
04	Type of Stack	Round
05	Flue Gas Temperature	105 °C (378 K)
06	Differential Pressure	2.60 mm Wg
07	Velocity	6.27 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m ²
10	Gas Volume	312522.63 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	89.67 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	50.28 mg/Nm ³
		377.13 Kg /Day

Note:

- The analysis has been conducted in a MoEF; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.
- Calibration Details:**
Instrument Used: Stack Monitoring Kit.
Model & Serial No.: Ecotech Model, Sr.No. 14-B-85
Calibration Date: 27.02.2018
Next Calibration Due Date: 26.02.2019

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: DECEMBER 28, 2018

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/694
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.12.2018
Time :	04:45 P.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 2
02	Material of Stack	RCC
03	Stack Height from Ground Level	72 M
04	Type of Stack	Round
05	Flue Gas Temperature	141 °C (363 K)
06	Differential Pressure	2.30 mm Wg
07	Velocity	5.78 m/sec
08	Stack Diameter	3.0 m
09	Stack Area	7.0650 m ²
10	Gas Volume	120662.28 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	76.54 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	36.45 mg/Nm ³
		105.56 Kg /Day

Note:

- The analysis has been conducted in a MoEF; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.
- **Calibration Details:**
Instrument Used: Stack Monitoring Kit.
Model & Serial No.: Ecotech Model, Sr.No. 14-B-85
Calibration Date: 27.02.2018
Next Calibration Due Date: 26.02.2019

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: DECEMBER 28, 2018

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/695
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	17.12.2018.
Time:	5:00 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	60.3	75
02	Near ETP	63.7	75
03	Near Bagas Section	65.8	75
04	Near Sugar Godown	67.9	75
05	Near Cane Yard	68.1	75

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.
- Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time
- Calibration Details:
Instrument Used: Digital Sound Level Meter. (N520311)
Make: HTC Instruments
Calibration Date: 10.05.2018.
Next Calibration Due Date: 09.05.2019.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY,
PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: DECEMBER 28, 2018

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/696
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	17.12.2018.
Time:	05:20 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	83.4	90
02	Turbine Section	80.9	90
03	Near Boiler Section	81.2	90
04	Mill Section	79.3	90
05	Pan Section	84.8	90

Note:

- *The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.*
- *The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).*
- **Calibration Details:**
Instrument Used: Digital Sound Level Meter. (N520311)
Make: HTC Instruments
Calibration Date: 10.05.2018
Next Calibration Due Date: 09.05.2019

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY,
PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK,
PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: DECEMBER 28, 2018

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2018.19/697
Client:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Location:	Effluent Treatment Plant.
Plant Condition:	ETP in Operation.
Date of Sampling:	17.12.2018.
Analysis Date:	21.12.2018.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	2.77	7.72	--	--
02	Suspended Solids (SS)	125.00	30.00	100	mg / lit
03	Total Dissolved Solids (TDS)	1848.00	1077.00	2100	mg / lit
04	Chemical Oxygen Demand (COD)	5376.00	32.40	250	mg / lit
05	Biochemical Oxygen Demand (BOD)	2067.70	12.50	30	mg / lit
06	Chlorides as Cl ⁻	215.25	107.80	600	mg / lit
07	Sulphates as SO ₄ ²⁻	63.10	40.45	1000	mg / lit
08	Oil & Grease	5.00	NIL	10	mg / lit

Note:

- The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory-M/s. Horizon Services, Pune- that has also received OHSAS 18001-2007 accreditations by DNV.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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DATE: JANUARY 25, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/826
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.01.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	11:15 A.M.	
03	Ambient Temperature	27.0 °C	
04	Dry Bulb Temperature	27.0 °C	
05	Wet Bulb Temperature	22.0 °C	
06	Relative Humidity	65 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	65.18 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	21.74 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	30.51 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: JANUARY 25, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/827
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.01.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	11:30 A.M.	
03	Ambient Temperature	27.0 °C	
04	Dry Bulb Temperature	27.0 °C	
05	Wet Bulb Temperature	22.0 °C	
06	Relative Humidity	65 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	59.43 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	24.15 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	37.82 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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DATE: JANUARY 25, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/828
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.01.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	11:40 A.M.	
03	Ambient Temperature	27.0 °C	
04	Dry Bulb Temperature	27.0 °C	
05	Wet Bulb Temperature	22.0 °C	
06	Relative Humidity	65 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	63.87 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	23.15 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	34.49 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY,
PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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DATE: JANUARY 25, 2019

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/829
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.01.2019
Time :	12:10 P.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 1
02	Material of Stack	RCC
03	Stack Height from Ground Level	75 M
04	Type of Stack	Round
05	Flue Gas Temperature	165 °C (438 K)
06	Differential Pressure	2.70 mm Wg
07	Velocity	6.53 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m ²
10	Gas Volume	281350.88 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	68.95 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	60.12 mg/Nm ³
		405.96 Kg /Day

Note:

- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: JANUARY 25, 2019

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/830
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	17.01.2019
Time :	12:55 P.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 2
02	Material of Stack	RCC
03	Stack Height from Ground Level	72 M
04	Type of Stack	Round
05	Flue Gas Temperature	161 °C (434 K)
06	Differential Pressure	2.50 mm Wg
07	Velocity	6.25 m/sec
08	Stack Diameter	3.0 m
09	Stack Area	7.0650 m ²
10	Gas Volume	109407.93 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	58.12 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	43.69 mg/Nm ³
		114.72 Kg /Day

Note:

- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
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DATE: JANUARY 25, 2019

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/831
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	17.01.2019.
Time:	2:00 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	61.4	75
02	Near ETP	65.2	75
03	Near Bagas Section	66.7	75
04	Near Sugar Godown	68.3	75
05	Near Cane Yard	69.6	75

Note:

- Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: JANUARY 25, 2019

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/832
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	17.01.2019.
Time:	02:20 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	85.2	90
02	Turbine Section	84.3	90
03	Boiler Section	81.7	90
04	Mill Section	83.1	90
05	Pan Section	84.5	90

Note:

- The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: JANUARY 25, 2019

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.: Client: Site: Location: Plant Condition: Date of Sampling: Analysis Date: Sample Name:	EEIPL/REP/2018.19/833 M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., A/p.: Hupari, Dist.: Kolhapur. Effluent Treatment Plant. ETP in Operation. 17.01.2019. 18.01.2019. Industrial Effluent – Untreated & Treated
---	---

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	SPRAY POND	CPCB LIMIT	UNIT
01	pH	2.65	7.53	6.59	6.5-8.5	--
02	Suspended Solids (SS)	118.92	22.17	102.59	100	mg/lit
03	Total Dissolved Solids (TDS)	2449.71	1249.32	1896.74	2100	mg/lit
04	Chemical Oxygen Demand (COD)	2394.54	65.95	235.69	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	984.21	22.69	28.56	30	mg/lit
06	Chlorides as Cl ⁻	596.81	268.72	405.82	600	mg/lit
07	Sulphates as SO ₄ ⁻	624.78	425.98	562.17	1000	mg/lit
08	Oil & Grease	6.98	1.56	4.67	10	mg/lit

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: JANUARY 25, 2019

RIVER WATER SAMPLE ANALYSIS REPORT

Report No.:	ECA/REP/2018.19/834
Client:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Sampling Date:	17.01.2019.
Analysis Date:	18.01.2019.
Sample Name:	GSR-River

RESULTS

SR. NO.	TEST DESCRIPTION	RESULT	UNIT
01	pH	7.34	--
02	Colour	0.20	Hazen Unit
03	Odour	Agreeable	--
04	Electric Conductance	426.31	µS/cm
05	Turbidity	0.21	NTU
06	Total Dissolved Solids (TDS)	285.64	mg/lit
07	Chemical Oxygen Demand (COD)	21.56	mg/lit
08	Biochemical Oxygen Demand (BOD)	8.39	mg/lit
09	Chlorides as Cl ⁻	65.24	mg/lit
10	Alkalinity as CaCO ₃	71.88	mg/lit
11	Calcium as Ca	13.17	mg/lit
12	Magnesium as Mg	6.02	mg/lit
13	Total Hardness as CaCO ₃	57.73	mg/lit
14	Sodium as Na	0.45	mg/lit
15	Potassium as K	0.15	mg/lit

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(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: JANUARY 25, 2019

RIVER WATER SAMPLE ANALYSIS REPORT

Report No.:	ECA/REP/2018.19/835
Client:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.
Site:	A/p.: Hupari, Dist.: Kolhapur.
Sampling Date:	17.01.2019.
Analysis Date:	18.01.2019.
Sample Name:	GSR-River Recycled

RESULTS

SR. NO.	TEST DESCRIPTION	RESULT	UNIT
01	pH	7.41	--
02	Colour	0.35	Hazen Unit
03	Odour	Agreeable	--
04	Electric Conductance	850.51	µS/cm
05	Turbidity	0.39	NTU
06	Total Dissolved Solids (TDS)	569.86	mg/lit
07	Chemical Oxygen Demand (COD)	37.98	mg/lit
08	Biochemical Oxygen Demand (BOD)	15.55	mg/lit
09	Chlorides as Cl ⁻	101.63	mg/lit
10	Alkalinity as CaCO ₃	126.35	mg/lit
11	Calcium as Ca	29.68	mg/lit
12	Magnesium as Mg	10.92	mg/lit
13	Total Hardness as CaCO ₃	119.19	mg/lit
14	Sodium as Na	0.57	mg/lit
15	Potassium as K	0.74	mg/lit

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: FEBRUARY 18, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/943
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.02.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	11:45 A.M.	
03	Ambient Temperature	32.0 °C	
04	Dry Bulb Temperature	32.0 °C	
05	Wet Bulb Temperature	25.0 °C	
06	Relative Humidity	25 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	66.03 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	24.71 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	32.84 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: FEBRUARY 18, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/944
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.02.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	11:55 A.M.	
03	Ambient Temperature	32.0 °C	
04	Dry Bulb Temperature	32.0 °C	
05	Wet Bulb Temperature	25.0 °C	
06	Relative Humidity	25 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	63.02 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	26.34 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	35.88 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: FEBRUARY 18, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/945
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.02.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	12:05 P.M.	
03	Ambient Temperature	32.0 °C	
04	Dry Bulb Temperature	32.0 °C	
05	Wet Bulb Temperature	25.0 °C	
06	Relative Humidity	25 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	69.05 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	26.21 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	36.74 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

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(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: FEBRUARY 18, 2019

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/946
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.02.2019
Time :	12:20 P.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 1
02	Material of Stack	RCC
03	Stack Height from Ground Level	75 M
04	Type of Stack	Round
05	Flue Gas Temperature	161 °C (434 K)
06	Differential Pressure	2.80 mm Wg
07	Velocity	6.62 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m ²
10	Gas Volume	287831.02 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	66.47 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	64.11 mg/Nm ³
		442.87 Kg /Day

Note:

- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: FEBRUARY 18, 2019

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/947
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.02.2019
Time :	01:15 P.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 2
02	Material of Stack	RCC
03	Stack Height from Ground Level	72 M
04	Type of Stack	Round
05	Flue Gas Temperature	166 °C (439 K)
06	Differential Pressure	2.90 mm Wg
07	Velocity	6.78 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m ²
10	Gas Volume	117162.98 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	62.98 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	49.04 mg/Nm ³
		137.90 Kg /Day

Note:

- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: FEBRUARY 18, 2019

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/948
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	12.02.2019.
Time:	2:05 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	60.7	75
02	Near ETP	69.1	75
03	Near Bagas Section	66.4	75
04	Near Sugar Godown	67.3	75
05	Near Cane Yard	69.7	75

Note:

- Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: FEBRUARY 18, 2019

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/949
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	12.02.2019.
Time:	02:40 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	84.4	90
02	Turbine Section	82.7	90
03	Boiler Section	84.1	90
04	Mill Section	83.2	90
05	Pan Section	85.5	90

Note:

- The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
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DATE: FEBRUARY 18, 2019

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2018.19/950
Client:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Location:	Effluent Treatment Plant.
Plant Condition:	ETP in Operation.
Date of Sampling:	12.02.2019.
Analysis Date:	13.02.2019.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	4.80	7.61	6.5-8.5	--
02	Suspended Solids (SS)	400.76	17.03	100	mg/lit
03	Total Dissolved Solids (TDS)	1957.14	580.72	2100	mg/lit
04	Chemical Oxygen Demand (COD)	5620.29	73.69	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	2038.41	26.81	100	mg/lit
06	Chlorides as Cl ⁻	598.49	167.73	600	mg/lit
07	Sulphates as SO ₄ ²⁻	770.26	235.87	1000	mg/lit
08	Oil & Grease	7.05	Nil	10	mg/lit

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(Dy. Head Monitoring)

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CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
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DATE: MARCH 15, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/1033
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	08.03.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	09:25 A.M.	
03	Ambient Temperature	26.0 °C	
04	Dry Bulb Temperature	26.0 °C	
05	Wet Bulb Temperature	20.0 °C	
06	Relative Humidity	58 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	65.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	22.05 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	29.41 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: MARCH 15, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/1034
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	08.03.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	09:35 A.M.	
03	Ambient Temperature	26.0 °C	
04	Dry Bulb Temperature	26.0 °C	
05	Wet Bulb Temperature	20.0 °C	
06	Relative Humidity	58 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	61.76 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	24.91 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	33.08 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

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(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
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DATE: MARCH 15, 2019

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/1035
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	08.03.2019

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	10:00 A.M.	
03	Ambient Temperature	27.0 °C	
04	Dry Bulb Temperature	27.0 °C	
05	Wet Bulb Temperature	21.0 °C	
06	Relative Humidity	59 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM ₁₀)	67.33 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO ₂)	25.81 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO _x)	32.74 µg/cum	80 µg/cum

Note:

- NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No.B - 29016 / 20 / 90 / PCI - I, New Delhi, the 18th November 2009.

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(Dy. Head Monitoring)

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CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: MARCH 15, 2019

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/1036
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	08.03.2019
Time :	10:30 A.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 1
02	Material of Stack	RCC
03	Stack Height from Ground Level	75 M
04	Type of Stack	Round
05	Flue Gas Temperature	165 °C (438 K)
06	Differential Pressure	3.00 mm Wg
07	Velocity	6.88 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m ²
10	Gas Volume	296569.87 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	65.27 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	59.04 mg/Nm ³
		420.23 Kg /Day

Note:

- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.

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(Dy. Head Monitoring)

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- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: MARCH 15, 2019

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/1037
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	08.03.2019
Time :	11:45 A.M.

RESULTS

SR. NO.	TEST DESCRIPTION	READING
01	Location	Boiler Stack 2
02	Material of Stack	RCC
03	Stack Height from Ground Level	72 M
04	Type of Stack	Round
05	Flue Gas Temperature	170 °C (443 K)
06	Differential Pressure	3.10 mm Wg
07	Velocity	7.04 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m ²
10	Gas Volume	120587.60 Nm ³ /Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	59.24 mg/Nm ³
02	Sulphur Dioxide (SO ₂)	45.11 mg/Nm ³
		130.55 Kg /Day

Note:

- Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum
- Maharashtra Pollution Control Board (MPCB) Limits - SO₂: As per Consent.

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(Dy. Head Monitoring)

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DATE: MARCH 15, 2019

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/1038
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	08.03.2019.
Time:	12:55 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	62.1	75
02	Near ETP	68.7	75
03	Near Bagas Section	69.3	75
04	Near Sugar Godown	66.5	75
05	Near Cane Yard	71.4	75

Note:

- Maharashtra Pollution Control Board (MPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS, CONSULTANTS AND ANALYSTS
- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY, PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: MARCH 15, 2019

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2018.19/1039
Client :	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	08.03.2019.
Time:	02:40 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	86.2	90
02	Turbine Section	84.6	90
03	Boiler Section	83.8	90
04	Mill Section	85.4	90
05	Pan Section	86.8	90

Note:

- The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: MARCH 15, 2019

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2018.19/1040
Client:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Location:	Effluent Treatment Plant.
Plant Condition:	ETP in Operation.
Date of Sampling:	08.03.2019.
Analysis Date:	09.03.2019.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

S.R. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	4.66	7.58	6.5-8.5	--
02	Suspended Solids (SS)	310.21	16.74	100	mg/lit
03	Total Dissolved Solids (TDS)	1856.55	561.39	2100	mg/lit
04	Chemical Oxygen Demand (COD)	4871.96	70.11	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1896.76	25.06	100	mg/lit
06	Chlorides as Cl ⁻	517.67	158.94	600	mg/lit
07	Sulphates as SO ₄ ²⁻	751.42	216.73	1000	mg/lit
08	Oil & Grease	6.17	Nil	10	mg/lit

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
- F-502, FIFTH FLOOR, NANDANVAN TOWER, MUMBAI-PUNE HIGHWAY,
PANVEL - 410 206 (M.S.), MOBILE : +91 9822682822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK,
PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com



DATE: MARCH 15, 2019

LIME SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2018.19/1041
Client:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	08.03.2019.
Analysis Date:	09.03.2019.
Sample Name:	Lime Sample

RESULTS

SR.NO.	TEST DESCRIPTION	RESULTS	UNIT
01	Moisture Contain	39.36	%
02	Total Solid	60.64	%
03	Total Volatile Solid	9.75	%
04	Iron	0.44	mg/kg
05	Lead	BDL	mg/kg
06	Total Phosphate (as P ₂ O ₅)	153.43	mg/kg
07	Total Nitrogen (as N)	0.7	%
08	Zinc	1.84	mg/kg
09	Total Potassium (as K ₂ O)	370.80	mg/kg

Note:

- BDL-Below Detectable Level.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

■ ENVIRONMENTAL; CIVIL & CHEMICAL ENGINEERS,
CONSULTANTS AND ANALYSTS

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231,
TELEFAX : (0231) 2526337, MOBILE : (0) 9657865122
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DATE: MARCH 15, 2019

ASH SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2018.19/1041A
Client:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,
Site:	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	08.03.2019.
Analysis Date:	09.03.2019.
Sample Name:	Ash Sample

RESULTS

SR.NO.	TEST DESCRIPTION	RESULTS	UNIT
01	Moisture Contain	41.93	%
02	Total Solid	58.07	%
03	Total Volatile Solid	17.29	%
04	Iron	0.86	mg/kg
05	Lead	BDL	mg/kg
06	Total Phosphate (as P ₂ O ₅)	883.99	mg/kg
07	Total Nitrogen (as N)	1.68	%
08	Zinc	2.41	mg/kg
09	Total Potassium (as K ₂ O)	492.00	mg/kg

Note:

- BDL-Below Detectable Level.

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

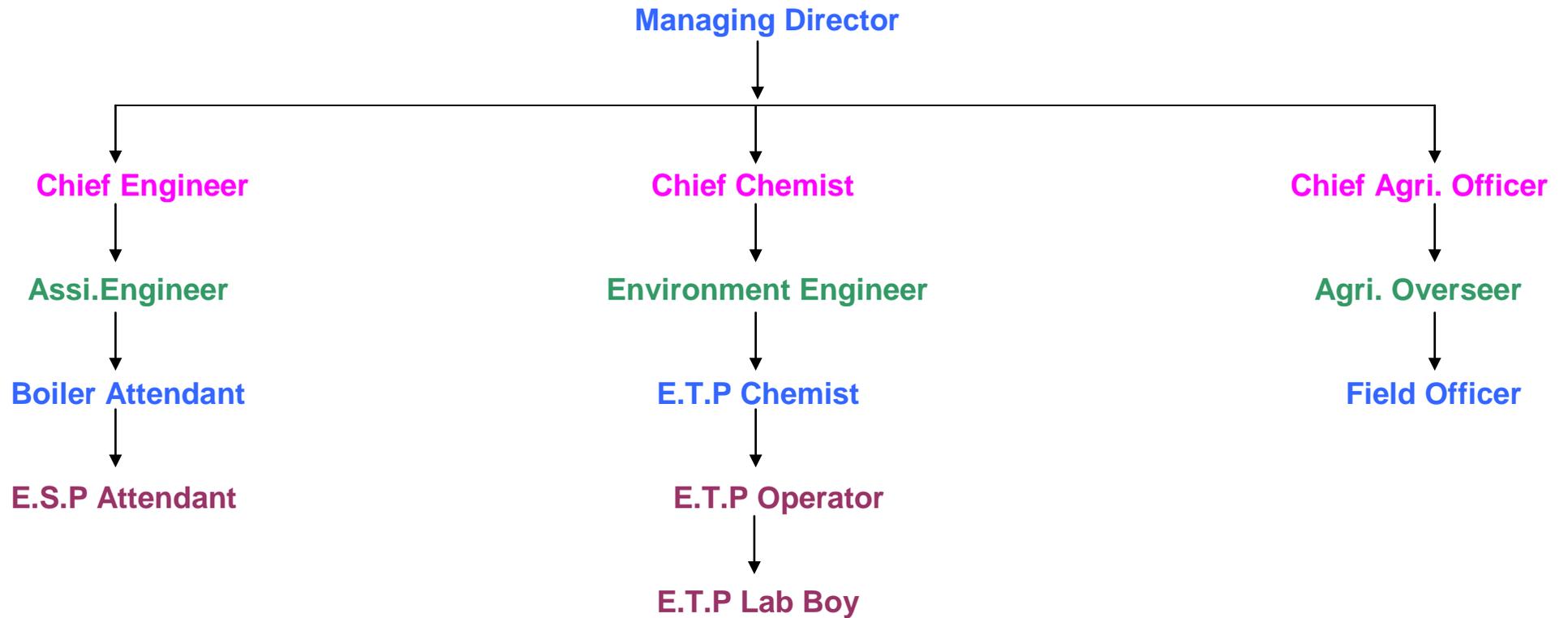
Annexure – VIII

Environment Management Cell

Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari

Shri Kallappaanna Awadenagar, Hupari-Yalgud 416 203,
Tal. Hatkanangale, Dist. Kolhapur (Maharashtra)

Environmental Management Cell



Annexure – IX

Acknowledgement of Compliance

SPEED POST

JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

Shri Kallappanna Awadenagar, Hupari-Yalgud 416 203, Tal.: Hatkanangale, Dist.: Kolhapur. (Maharashtra)

Phone : (0230) 2450402 (5 Lines), Fax (0230) 2450401, E-mail : kprjsssk@gmail.com

Ref. No. MFG/ ETP / 8624 /2018-2019

Date: - 25/11/2018.

To,

The Regional Officer (WCZ),
Ministry of Environment, Forest & Climate Change,
Ground Floor, East Wing,
New Secretariat Building,
Civil Lines,
Nagpur- 440 001.

Sub: Submission of Six Monthly Compliance report for period April 2018 to September 2018 w.r.t Sugar Unit of 12000 TCD – M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari, Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur

Ref: Environmental Clearance (EC) Letter F.No. J-11011/38/2016-IA- II (I) dated 20th December, 2016.

Dear Sir,

This has reference to Environmental Clearance (EC) granted to our Sugar Unit of 12000 TCD – M/s. **Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari**, Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra State).

As per General Condition No.14 in Environmental Clearance letter, we are submitting a six-monthly compliance report for a period of April 2018 to September 2018.

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

Thanking you,

Yours faithfully

For Jawahar S.S.S.K. Ltd., Hupari



(M.G. Joshi)

Managing Director

Encl.: a/a

Recd.
27/11/2018
REGIONAL OFFICE
M. P. C. BOARD
UDYOG BHAVAN
GR. FLOOR, 2ND R. COLLECTOR OFFICE
KOLHAPUR-416003

(P.T.O)

Copy for Information to:

1. Zonal Office,
Central Pollution Control Board,
Parivesh Bhavan,
Opp.ward No.10, VMC Office,
Subhanpura,
Vadodara (Gujarat) -390023
2. Member Secretary,
Maharashtra Pollution Control Board,
Kalpataru Point,3rd & 4th Floor,
Opp. Cine Planet,
Near Sion Circle,Sion (E),
Mumbai (Maharashtra) - 400 022.
3. Regional Officer,
Maharashtra Pollution Control Board,
Udyog Bhavan Building,
Near Collector Office,
Kolhapur- 416002.

Annexure – X

Acknowledgement Copies of Environmental Statement Submission

Form 4

see rules 6(5),13(8),16(6) and 20(2) of Hazardous and other wastes 2015

FORM FOR FILING ANNUAL RETURNS

To be submitted to state pollution control board/pollution control committee by 30th June of every year for the preceeding period April to March]

Unique Application Number:

MPCB-HW_ANNUAL_RETURN-0000005903

Submitted On:

27-06-2018

1. Name of the generator/operator of facility

Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. Hupari

Address of the unit/facility

Shri Kallappaanna Awadenagar, Hupari-Yalgud, Tal- Hatkanangale, Dist- Kolhapur, Pin.Code no. 416203

1b. Authorization Number

NA

Date of issue

Jan 1, 1970

2. Name of the authorised person

S.P.Nalage

Full address of authorised person

Shri Kallappaanna Awadenagar, Hupari-Yalgud, Tal- Hatkanangale, Dist- Kolhapur, Pin.Code no. 416203

Telephone

02302450402

Fax

02302450401

Email

kprjsssk@gmail.com

3. Production during the year (product wise), wherever applicable:

Product Type *	Product Name *	Actual Quantity	UOM
Sugar (excluding Khandsari)	Sugar	2118060	Qnt/Y

PART A: To be filled by hazardous waste generators**1. Total Quantity of waste generated category wise**

Type of hazardous waste	Waste Name	Quantity	UOM
5.1 Used or spent oil	Burnt oil	1.946	KL/Anum
34.2 Sludge from treatment of waste water arising out of cleaning / disposal of barrels / containers	Secondary aerobic sludge	322.66	MTA

2. Quantity dispatched category wise.

Type of Waste	Quantity of waste	UOM	Dispatched to	Facility Name
	0	KL/Anum	0	0

3. Quantity Utilised in-house,If any

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	0	KL/Anum

4. Quantity in storage at the end of the year

Type of Waste	Name of Waste	Quantity of Waste	UOM
	NA	0	KL/Anum

PART B: To be filled by Treatment,storage, and disposal facility operators**1.Total Quantity received**

NA

UOM

KL/Anum

2. Quantity in stock at the beginning of the year

NA

UOM

KL/Anum

3. Quantity treated

NA

UOM

KL/Anum

4. Quantity disposed in landfills as such and after treatment-

Direct landfilling	UOM
NA	KL/Anum
Landfill after treatment	UOM
NA	KL/Anum
5. Quantity Incinerated (if applicable)	UOM
NA	KL/Anum
6. Quantity processed other than specified above	UOM
NA	KL/Anum
7. Quantity in storage at the end of the year.	UOM
NA	KL/Anum

PART C: To be filled by recyclers or co-processors or other users

1. Quantity of waste received during the year			
Waste Name/Category	Quantity of waste received from domestic sources	Quantity of waste imported (if any)	Units
NA	NA	NA	KL/Anum
2. Quantity in stock at the beginning of the year			
Waste Name/Category	Quantity	UOM	
NA	NA	KL/Anum	
3. Quantity of waste recycled or co-processed or used			
Name of Waste	Type of Waste	Quantity	UOM
NA	NA	NA	KL/Anum
4. Quantity of products dispatched (wherever applicable)			
Name of product	Quantity	UOM	
NA	NA	KL/Anum	
5. Total quantity of waste generated			
Waste name/category	quantity	UOM	
NA	NA	KL/Anum	
6. Total quantity of waste disposed			
Waste name/category	quantity	UOM	
NA	NA	KL/Anum	
7. Total quantity of waste re-exported (If Applicable)			
Waste name/category	quantity	UOM	
NA	NA	KL/Anum	
8. Quantity in storage at the end of the year			
Waste name/category	quantity	UOM	
NA	NA	KL/Anum	
Personal Details			
Place	Date	Designation	
Hupari	2018-06-27	Environment Engineer	

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2018

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000010609

Submitted Date

28-08-2018

Company Information**Company Name**

Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari

Application UAN number

0000048678

AddressShri Kallappanna Awadenagar, Hupari-Yalgud,
Tal- Hatkanangale , Dist- Kolhapur
(Maharashtra), Pin-Code -416203.**Plot no**

R.S.No. 315/7 to 315/15,925/9

Taluka

Hatkanangale

Village

Yalgud-Hupari

Capital Investment (In lakhs)

29859.85

Scale

L.S

City

Hupari

Pincode

416203

Person Name

Manohar Gopal Joshi

Designation

Managing Director

Telephone Number

(0230)2450402 to 5 lines

Fax Number

(0230)2450401

Email

kprjsssk@gmail.com

Region

SRO-Kolhapur

Industry Category

Red

Industry TypeR12 Sugar (excluding
Khandsari)**Last Environmental statement submitted online**

yes

Consent NumberFormat No.1.0/BO/CAC-CELL/UAN
No.0000028341/R/CAC-1804000346**Consent Issue Date**

07/04/2018

Consent Valid Upto

31/07/2018

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Sugar	253310	206898	MT/A

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Molasses	70080	61046.44	MT/A
Press Mud	70080	42959.020	MT/A
Bagasse	513433	456204.840	MT/A
Electricity Generation	28.5	22.00	Mwh
Electricity Generation	28.5	22.00	Mwh

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	90	57
Domestic	41	36
All others	328	324
	00	00

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Industrial	1200	639	CMD
Domestic	125	68	CMD

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

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Sugar	0.057	0.027	Ltr/A
Molassess	0.17	0.089	Ltr/A
Bagasse	0.23	0.12	Ltr/A
Pressmud	2.19	1.30	Ltr/A

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

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Sugar cane	7.853313	7.873	Ton/Ton
Bagasse used as Fuel	1.618915	1.307	Ton/Ton
Lime	0.010782	0.0104	Ton/Ton
Ortho-phosphoric Acid	0.000016	0.0000135	Ton/Ton
Sulphur	0.002738	0.0022	Ton/Ton
Caustic Soda	0.000056	0.000029	Ton/Ton
Oil	0.000210	0.00022	Ton/Ton
Grease	0.000044	0.000063	Ton/Ton

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bagasse	513433	270313	MT/A

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

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged (Mg/Lit) Except PH, Temp, Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
COD	0.0000672	67.20	26.80	250	00
BOD	0.0000172	17.2	17.2	100	00
TSS	0.000022	22.0	22.0	100	00

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged (Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
TPM- Stack-1	201.83	57.80	38.53	150	00
TPM- Stack-2	211.00	41.80	27.86	150	00

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used /spent oil	1.326	1.834	KL/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used /spent oil	00	00	KL/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Boiler Ash	3270	4054.70	MT/A
Kenkhar Lime	109	146	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Sludge from waste water treatment	236.94	340	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used /spent oil	1.326	1.996	KL/A
5.1 Used /spent oil	1.326	1.996	KL/A

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used /spent oil	1.996	KL/A	1.996

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Boiler Ash	4054.70	MT/A	4054.70
Sludge from waste water treatment	340.00	MT/A	340.00

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

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment (in Lacs)	Reduction in Maintenance (in Lacs)
00	00	00	00	00	00	00

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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacs)
---	-----------------------------------	---------------------------

Tree Plantation

Existing tree plantation done at factory site is 61000 no. of trees. In that 56977 no. of trees are survival . We have done additional 5067 no.of tree plantation on factory site in this year.
Total 6.24

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
For 20 TPH capacity boiler, we are going to installed ESP unit	This is very advanced technology to arrest the Total Particulate Matter (TPM)	210.60

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

Particulars

A massive tree plantation has been done at factory site to minimise the frequency of air pollution. There are 62000 no. of trees are planted in and around the Karkhana area. In that 93 % of trees are good survival . This plantation contains dust , SO2, CO & CO2 tolerant plants. Which also helps in keeping micro climatic conditions ultimately clean Environment.

Name & Designation

M.G.Joshi, Managing Director