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 / 1269 /2020-2021 Date: -13 /05/2021

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

Sub: Submission of Six Monthly Environment Compliance report for period October 2020 to March 2021 w.r.t Sugar Unit of 12000 TCD and 16,000 TCD – **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,Hupari.** Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, Maharashtra State.

Ref.
1. Environmental Clearance (EC) Letter for 12000 TCD Sugar Unit F. No. J-11011/38/2016-IA-II(I) dated 20.12.2016.
2. Environmental Clearance (EC) Letter for 16000 TCD Sugar Unit F. No. F.No.IA-J-11011/146/2020-IA II (I) Dated 1st December, 2020.

Dear Sir,

This has reference to Environmental Clearance (EC) granted to our Sugar Unit of 12000 TCD and 16000 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 EC letter in 12000 TCD and Condition No. 12 in EC letter 16000 TCD, we are submitting a six monthly compliance report for a period of October 2020 to March 2021.

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

Thanking you,

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

(M.G.Joshi)
Managing Director

Encl. - As above

Copy for information to:-

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

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

3. Regional Officer,
   Maharashtra Pollution Control Board,
   Udyog Bhavan Building,
   Naer Collector Office,
   Kolhapur- 416 002.
   Email –rokolhapur@mpcb.gov.com

Enclosure I
Copy of Environmental Clerance for 12,000 TCD Sugar Unit

सत्यमेव जयते

F. No. J-11011/38/2016-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110 003

Telefax: 011-24695365
E-mail: yogendra78@nic.in

Dated: 20th December, 2016

To

The Chief Executive Officer
M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.
Shri Kallappanna Awadenagar, Hupari-Yalgud
Hatkanangale, Kolhapur District
Maharashtra- 416 203

Sub: Expansion of Sugar unit capacity from 7500 TCD to 12000 TCD at Hupari Yalgud, Tehsil Hathkanangale, District Kolhapur, Maharashtra by M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. –Environmental Clearance– reg.

Ref: Online Proposal No. IA/MH/IND2/38479/2014 dated 06th January, 2016.

Sir,

This has reference to your online proposal no. IA/MH/IND2/38479/2014 dated 06th January, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report along with Public Hearing Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for expansion of sugar unit capacity from 7500 TCD to 12000 TCD at Hupari Yalgud, Tehsil Hathkanangale, District Kolhapur, Maharashtra by M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. As informed by the Project Proponent (PP) and as per the documents submitted by the PP, the total plot area is 3,94,237.058 m^2, out of which area earmarked for greenbelt is 3,30,000 m^2. It is reported that no national park/wildlife sanctuary/coral formation is located within 10 km distance of the plant. River Doodhganga is flowing at a distance of 6 Km. The total project cost is Rs.74.50 Crores, out of which 200.95 Lakhs are earmarked towards CSR activity.

3. The project proposal was initially considered by the Maharashtra State Level Expert Appraisal Committee (SEAC) in its meeting held on 01st August, 2014 and had approved ToR for preparation of EIA. As the project is located within 5 km distance of interstate boundary; SEAC-1 in its 114th meeting held on 19th – 21st November, 2015 has categorized

the project as Category 'A' and desired to be appraised by Central EAC. The Member Secretary (SEAC-1) vide letter No. SEAC-2014/CR-45/TC-2 dated 08th January, 2016 has transferred the project to the Ministry of Environment, Forest and Climate Change, New Delhi.

4. All Sugar industry are listed at S.N. 5(j) (ii) of Schedule of Environmental Impact Assessment (EIA) Notification under category 'B'. The present proposal is located within 5 km distance of interstate boundary of Maharashtra and Karnataka. Due to the applicability of general condition i.e. located in whole or in part within 10 km from the inter-State boundaries; the proposal is treated as Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

5. The project proposal was subsequently considered by the Expert Appraisal Committee (Industry -2) in its 6th meeting held during 30th March- 02nd April, 2016 and 13th meeting held during 26th-27th September, 2016. The project proponent and their consultant M/s Green Circle, Vadodara (accreditation case sub-judice) gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken as per Terms of References (TORs) awarded by SEAC, Maharashtra for preparation of EIA-EMP report.

6. The PP has obtained environmental clearance (EC) for the existing Sugar unit (7500 TCD) from the State Environment Impact Assessment Authority (*SEIAA*) vide Environment Department, Government of Maharashtra letter no. ENV(NOC)2005/1591/CR224/TC-II dated 27th August, 2007. Regional Office of MoEF&CC at Nagpur, vide letter no. EC-41/RON/2016-NGP/691 dated 21.07.2016 has submitted the copy of certified compliance report to the environmental conditions prescribed in the existing EC. The EAC has found compliance report to be satisfactory.

7. Public Hearing for the proposed project has been conducted by the Maharashtra Pollution Control Board on 10.07.2015. The EAC has deliberated upon the issues raised during the public hearing and noted that the issues have satisfactorily been incorporated in the final EIA-EMP report.

8. The EAC, in its 13th meeting held during 26th-27th September, 2016, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.

9. Based on the proposal and information submitted by the Project Proponent, and based on the recommendation by the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. Specific Conditions:

i. 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.

ii. Pucca approach road to project site should be constructed prior to commencing construction activity of the main distillery to avoid fugitive emissions.

iii. Total fresh water requirement from Doodhganga River shall not exceed 600 m^3/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.

iv. 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.

v. Effluent from sugar unit should be treated in the effluent treatment plant with adequate treatment with standard of 30 mg/l of BOD. Existing ETP shall be upgraded to achieve the standard of BOD 30 mg/l.

vi. As proposed, no effluent from sugar plant should be discharged outside the premises and Zero discharge shall be achieved.

vii. Bagasse/coal storage should be done in such a way that it does not get air borne or fly around due to wind.

viii. 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.

ix. Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the regular medical test records of each employee should be maintained separately.

x. 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.

xi. All the issues raised during the public hearing/consultation meeting held on 10th July, 2015 should be satisfactorily implemented.

xii. As proposed, green belt over 33% of plot area shall be developed within plant premises with at least 10 meter 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.

xiii. At least 5 % of the total cost of the project should be earmarked towards the Enterprise 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.

B. General Conditions:

i. The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, State Government and any other statutory authority.

ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the 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.

iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.

v. 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).

vi. 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.

vii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

viii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents 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.

ix. 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.

x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

xii. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by 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.

xiii. 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.

xiv. 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.

xv. 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.

xvi. 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 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.

xvii. 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.

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

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

12. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention &. Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

20.12.2016

(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai- 400 032.
2. Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440001.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bhag, New Delhi- 110 003.
6. Guard File/Monitoring File/Website/Record File.

20.12.2016

(Yogendra Pal Singh)
Scientist 'D'

Enclosure II
Copy of Environmental Clerance for 16,000 TCD Sugar Unit

By Speed Post/Online

F.No.IA-J-11011/146/2020- IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)
***

Indira ParyavaranBhavan,
Vayu Wing, 3rd Floor, Aliganj,
JorBagh Road, New Delhi-110 003

Dated: 1st December, 2020

To

M/s JawaharShetakari SSKL
A/PHupari, Taluka Hatkanangale
District Kolhapur, **Maharashtra** -416203

Email: kprjsssk@gmail.com

Sub: Expansion of Sugar factory from 12,000 TCD to 16,000 TCD at Survey No. 315/7 to 315/15, A/PHupari, Taluka Hatkanangale, District Kolhapur, Maharashtra by M/s Jawahar Shetakari SSK Ltd (JSSSKL)-Environmental Clearance - reg.

Sir,

This has reference to your proposal No.IA/MH/IND2/38479/2014 dated 19th June 2020, submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Expansion of Sugar factory from 12,000 TCD to 16,000 TCD by M/s Jawahar Shetkari Sahkari Sakhar Karkhana Ltd (JSSSKL) in an area of 99.57 ha located at Survey No. 315/7 to 315/15, A/P Hupari, Taluka Hatkanangale, District Kolhapur, Maharashtra.

3. The details of products and capacity as under:

Product & By-product	**Quantity**		
	Existing (12,000 TCD)	**Expansion** (4,000 TCD)	**Total** (16,000 TCD)
White Sugar (14.45%)	52,050	17,340	69,390
By-product			
Molasses (4%)	14,400	4,800	19,200
Bagasse (29.30%)	1,05,500	35,160	1,40,660
Press mud (4%)	14,400	4,800	19,200

4. The existing land area is 99.57 ha and the existing builtup is 23.78 ha. No additional land is required for proposed expansion. Industry has already developed greenbelt in an area of 34.39 ha and additional 4.97 hawill be developed. After expansion, the total greenbelt would be 39.37 ha which accounts for 40 % of total plot area. The estimated project cost is Rs.332.6 crores including existing investment of Rs. 298.6 crores. Total capital cost earmarked towards environmental pollution control measures under expansion is Rs. 1.10 Crores and the recurring cost (operation and maintenance) will be about Rs. 0.12 crores per annum. The project will provide employment for 1382 persons directly and indirectly after

expansion of projects. Industry proposes to allocate Rs. 5 crores towards Corporate Environmental Responsibility (CER).

5. There are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km from the project site. Dudhganga and Panchganga rivers flows at a distance of 4 Km in South and North direction respectively.

6. Total water requirement for sugar factory after expansion will be 5244 cum/day, which includes fresh water requirement of 328 cum/day proposed to be met from the Dudhganga river, while 4916 cum/day will be recycled cane condensate, ETP treated effluent and STP treated effluent. Permission has been obtained for lifting fresh water from the Dudhganga river by Irrigation DepartmentKolhapur, Govt. of Maharashtra.

Effluent of 1430 cum/day after expansion of sugar factory operations will be treated in existing ETP in the JSSSKL premises which shall be duly upgraded. As per CREP norms, 15 days storage capacity tank for treated water shall be provided on site.

Power requirement to the tune of 17 MW after expansion will be met from own Co-gen Plant. Existing unit has two DG set of capacity 515 KVA & 1320 KVA, used as standby during turbine tripping. Stack of height 6 m ARL is provided as per CPCB norms to the DG sets. Existing sugar factory unit has 20 TPH, 90 TPH & 75 TPH bagasse fired boilers. No new boiler will be installed under expansion of Sugar Factory. There are no sources of process emissions from Sugar Factory. No Hazardous Waste will be generated under expansion of Sugar Factory.

7. The project/activities are covered under category B of item 5 (j) 'Sugar Industry' of the Schedule to the Environment Impact Assessment Notification, 2006. Due to applicability of general condition (interstate boundary within 5 km), the project requires appraisal at central level by sectoral Expert Appraisal Committee (EAC) in the Ministry.

8. The Standard terms of reference (ToR) has been issued by the Ministry vide letter No. J-11011/38/2016-IA-II (I) dated 30th March, 2019. Public hearing for the project was conducted by the State Pollution Control Board on 12th December, 2019, which was presided over by the District Magistrate. The major issues raised during public hearing are related to effluent generation &its disposal, air pollution and its management, benefits to farmers from proposed project, employment generation, working days of industry etc.

It was informed by the project proponent that a litigation pending against existing Sugar Factory under the E(P) Act 1986 and the EIA Notification 2006. A Court Case was filed by the MPCB for excess crushing happened during 2015-16 Season having court case No.R.C.C/181/18/2016. It was reported that the court case has not been concluded.

9. The Ministry has issued environmental clearance earlier vide letter No. J–11011/38/2016-IA-II (I), dated 20th December, 2016 for expansion of Sugar Factory capacity from 7,500 to 12,000 TCD and SEAC & SEIAA vide letter No.: ENV (NOC) 2005/159/CR224/TC-II dated 27.08.2007 for expansion of Sugar Factory from 5000 TCD to 7500 TCD and Cogeneration Plant from 24 to 28.5 MW to M/s Jawahar Shetkari Sakhar Karkhana Ltd. The Ministry's Regional Office at Nagpur vide letter dated 31st January, 2020 (after conducting site visit on 21st January, 2020) has forwarded the compliance status of the existing environmental clearance conditions.

10. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meetings held on14-16 July, 2020 and **20-22 October, 2020** in the Ministry, wherein the project proponent and their accredited M/s Equinox Environments (I) Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

11. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the MPCB has filed court case against the project proponent for increasing the cane crushing without prior permission. It was noted that final decision on the matter has not been taken by the court. The project proponent has assured before the Committee that in future they shall not increase the production without taking prior permissions from the concerned authorities. The Committee has also noted that the project proponent has committed to reduce the fresh water requirement by properly utilizing the rain water harvesting. It was brought to the notice of the Committee that the project proponent has not reduced any fresh water, and the quantity remains the same i.e 328 cum/day earlier and now.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan along with activities for addressing the socio-economic issues and found to be addressing the issues in the study area. The Committee has found the additional information submitted by the project proponent to be satisfactory and addressing the issues raised by the Committee.

12. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

13. Based on the proposal submitted by the project proponent andrecommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate change hereby accords environmental clearanceto the projectfor**Expansion of Sugar factory from 12,000 TCD to 16,000 TCD by M/s JawaharShetakari SSK Ltd at Survey No. 315/7 to 315/15, A/PHupari, Taluka Hatkanangale, District Kolhapur, Maharashtra (JSSSKL),** under the

provisions of the EIA Notification, 2006, subject to the compliance ofterms andconditions as under:-

(i). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

(ii). As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture and not to send outside/used for farming.

(iii). As proposed, total fresh water requirement shall be 328 cum/day, proposed to be met from Dudhganga river. Prior permission shall be obtained from the concerned regulatory authority in this regard, and renewed from time to time.

(iv). Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.

(v). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.

(vi). Process organic residue and spent carbon, if any, shall be sent to Cement/other suitable industries for its incinerations/management.

(vii). Project Proponent shall reduce the quantity of effluents generation in the unit and PP shall install the effective wastewater treatment system so that Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Adequate system shall be in place for controlling the odour and mitigation measures to protect the contamination of ground/surface water.

(viii). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

(ix). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.

(x). As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the public hearing and socio-economic issues in the study area, the project proponent, as committed, shall provide support for clean & safe drinking water supply, non-conventional energy promotion, supply of MSW management infrastructure, medical & healthcare facilities in the nearby villages. The action plan shall be completed within five years as proposed. All the commitments made during public hearing shall be satisfactorily implemented.

(xi). The project proponent shall ensure rain water harvesting system in the project area and reduce dependency on fresh water from the river.

(xii). There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

(xiii). Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.

(xiv). Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.

(xv). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

13.1 The grant of environmental clearance is further subject to compliance of other general conditions as under:-

(i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

(ii) The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.

(iii) 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 station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

(iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.

(v) 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).

(vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.

(vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

(viii) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration.

(ix) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.

(x) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by 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.

(xi) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZillaParishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(xii) 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.

(xiii) 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.

(xiv) 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 and at **https://parivesh.nic.in/**. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

(xv) 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.

(xvi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

14. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

15. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

16. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

17. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

18. This issues with approval of the competent authority.

01/12/2020

(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Tele-fax: 011-24695362
Email-rb.lal@nic.in

(डा. आर. बी. लाल)
(Dr. R. B. LAL)
वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment,Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur - 1
2. The Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 32
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floor, Opp. Cine Planet, Sion Circle, Mumbai - 22
5. The District Collector, District Kolhapur, Maharashtra
6. Guard File/Monitoring File/Website/Record File/Parivesh portal

(Dr. R. B. Lal)
Scientist 'E'/Additional Director

Brief Summary of the Project

1	Name of Project	:	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., (JSSSKL), Hupari**
2.	Clearance Letter No. & date	:	F. No. J-11011/38/2016-IA-II (I), Dated 20th December,2016.
3.	Location: District & State/UT	:	Dist.: Kolhapur. State: Maharashtra.
4.	Address for Correspondence	:	Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, Maharashtra 416 203.
5.	Six Monthly Compliance for Period		October 2020 to March 2021

M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd; Hupari (JSSSKL) is an Integrated Project Complex of Sugar (12,000 TCD) & Co-gen (28.5 MW) located at Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra State. JSSSKL was established in 1990 under. The Maharashtra Co-operative Society Act 1960.Sugar factory is registered with Govt. Of Maharashtra, Vide Certificate No. KPR/HLE/PRG (A)/30(S)/29-JAN-1990. In addition, it has been registered as Multi-State Co-operative Society Vide registration no. MSCS/CR-51/30-DEC-1994. First crushing season of Sugar Factory was undertaken in the year 1993-94. Environmental Clearance (EC) was Granted to 7,500 TCD Sugar and 28.5 Co-gen by Maharashtra Government vide letter no. ENV (NOC) 2005/159/CR224/TC-II, dated 27th August 2007. There after JSSSKL Planned to go for Expansion of Sugar Factory 7,500 TCD to 12,000 TCD for which Environmental Clearance (EC) was procured vide letter No.J-11011/38/2016-IA-II (I) Dated 20thDecember, 2016. Refer Copies of EC Enclosed at **Enclosure-I.** There after JSSSKL Planned to go for Expansion of Sugar Factory 12,000 TCD to 16,000 TCD for which Environmental Clearance (EC) was procured vide letter No.F.No.IA-J-11011/146/2020-IA II (I) Dated 1st December, 2020. Copy is enclosed at **Enclosure-II.** Some conditions, which are stipulated in EC, are completed by the industry while remaining completion of rest conditions are going on and will be completed shortly.

Six monthly (Period October 2020 to March 2021) Compliance report for Sugar Unit of Capacity 12000 TCD by M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. (JSSSKL), Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal. Hatkanangale, Dist.: Kolhapur, Maharashtra 416203.

Compliance of Specific and General Conditions mentioned in Environmental Clearance (EC) letter F. No. J-11011/38/2016-IA-II (I) dated 20.12.2016 for period from October 2020 to March 2021 presented as follows-

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	SPECIFIC CONDITIONS	
1.	**Condition No.1** ESP / Bag filter shall be provided to the bagasse	ESPs as APC are provided followed by stack

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	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.	height of 75M (common for 90 TPH and 20 TPH) & 72M for 75 TPH boiler to control particulate matter and Gaseous pollutants. Also, online monitoring system is also installed at stack. Photographs of same are attached at **Annexure - I.**
2.	**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.	Compliance is already done.
3.	**Condition No.3** Total fresh water requirement from Dudhaganga River shall not exceed 600m^3/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.	Total fresh water requirement for 12000 TCD Sugar Unit does not exceed 600 m^3/day during above said monitoring period. In addition, the same is taken from Dudhaganga river for which permission has already been procured. Copy of Water Lifting Permission is enclosed at **Annexure – II**
4.	**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.	The compliance towards condition is strictly being followed.
5.	**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/l.	The capacity of ETP is 3000 M^3/D. The parameters of treated effluent are within the Prescribed limits. Online monitoring system as well as flow meter has been provided for ETP Unit. Photographs of ETP units and Monitoring reports of ETP is enclosed at **Annexure- III**.
6.	**Condition No.6** As proposed, no effluent from sugar plant should be discharged outside the premises and Zero discharge shall be achieved.	No effluent is discharged outside Industry premises. The treated effluent is being recycled. Treated effluent is use for gardening & irrigation purpose in factory premises on area of 150 Acres.
7.	**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.	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.

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
8.	**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.	Boiler ash is transfer to ash silo through pneumatic ash handling system through closed pipe. Photographs of same is enclosed at **Annexure – IV.** Worker entering inside the plant area are provided Personal Protective Equipment's (PPEs) to protect them from direct exposure to fly ash & dust.
9.	**Condition No.9** Occupational health surveillance programme should be undertaken as regular exercise for all employees. The first aid facilities in the occupational health Centre should be strengthened and the regular medical test records of each employee should be maintained separately.	Occupational health surveillance is carried out for all employees and records are maintained. A sample copy of latest health check-up report is attached at **Annexure – V**.
10.	**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.	Dedicated parking facility has been provided at the factory site. Including this, good traffic management is also being implemented to prevent traffic congestion.
11.	**Condition No.11** All the issues raised during the public hearing / consultation meeting held on 10th July, 2015 should be satisfactorily implemented.	Compliance of it is already done.
12.	**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.	Total 62,279 Nos. of trees have been planted in the factory premises. Out of the total plot of 246 Acres (99.55 Ha.), 83.20 Acres (34.00 Ha.) area comes under Greenbelt. This comes to about 34% of total plot area. Details and Photographs of Green belt is enclosed at **Annexure-VI.**
13.	**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	Enterprise Social Commitment is being implemented in phase-wise manner. Following are the details of expenditure made during the monitoring period: **Sr. No.** | **ESC Activities** | **Amount** 1. | Sports promotion | Rs. 2.43

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	ensured accordingly in a time bound manner.	<table><tr><td></td><td>funding</td><td>Lakhs</td></tr><tr><td>2.</td><td>Funding for Social Activities</td><td>Rs. 11.64 Lakhs</td></tr><tr><td>3.</td><td>Medical Aid</td><td>Rs. 9.43 Lakhs</td></tr><tr><td>4.</td><td>Drip Irrigation Subsidy</td><td>Rs. 17.80 Lakhs</td></tr><tr><td>5.</td><td>Funding for Education</td><td>Rs. 4.66 Lakhs</td></tr><tr><td>6.</td><td>Funding for Cultural Programme</td><td>Rs. 0.50 Lakhs</td></tr><tr><td>7.</td><td>Provision of Drinking Water Facility</td><td>Rs. 00 Lakhs</td></tr><tr><td></td><td>**Total**</td><td>**Rs. 46.46 Lakhs**</td></tr></table>
	GENERAL CONDITIONS	
14.	**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.	Compliance strictly being followed by industry.
15.	**Condition No. 2** No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change. 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.	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) / Department of Environment, Govt. of Maharashtra.
16.	**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.	Compliance strictly followed Monitoring of ambient air quality is done. The monitoring reports of same are presented at **Annexure – VII.**
17.	**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	

<table>
<tr><th>Sr. No</th><th>Environmental Clearance Conditions</th><th>Compliance towards the Conditions Stipulated</th></tr>
<tr><td></td><td>followed.</td><td></td></tr>
<tr><td>18.</td><td>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).</td><td>Compliance strictly being followed.
No major noise generating source exists in the 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. Noise Monitoring Reports is enclosed at Annexure –VII.</td></tr>
<tr><td>19.</td><td>Condition No. 6
The Company shall harvest rainwater from the rooftops 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.</td><td>RWH plan is being implemented on site. Thereunder, roof top Area (71419.00 M^2) water is being harvested and is utilized for domestic purpose and gardening.</td></tr>
<tr><td>20.</td><td>Condition No.7
Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handing of chemicals shall be imparted.</td><td>Training sessions/workshops for employees on safety and health aspects are organized from time to time. Also, periodical medical examination for all employees is arranged on regular basis. Onsite record of the same is maintained.</td></tr>
<tr><td>21.</td><td>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.</td><td>The Company is compliance strictly followed with all the environmental protection measures and safeguards and implement all the recommendations made in EIA / EMP. Following is the break-up for EMP:.
<table>
<tr><th>Description</th><th>Capital Cost in Rs.</th><th>O & M Cost in Rs.</th></tr>
<tr><td>ETP</td><td>Rs.3.60 Lakhs</td><td>Rs.54.30 Lakhs</td></tr>
<tr><td>APC Equipment</td><td>Rs.0.00 Lakhs</td><td>Rs.12.60 Lakhs</td></tr>
<tr><td>Environmental Monitoring</td><td>Rs.0.00 Lakhs</td><td>Rs.7.64 Lakhs</td></tr>
<tr><td>Greenbelt</td><td>Rs.0.00 Lakhs</td><td>Rs.15.47 Lakhs</td></tr>
<tr><td>Total</td><td>Rs.3.60 Lakhs</td><td>Rs.90.01 Lakhs</td></tr>
</table></td></tr>
<tr><td>22.</td><td>Condition No. 9</td><td></td></tr>
</table>

<table>
<tr><th>Sr. No</th><th>Environmental Clearance Conditions</th><th>Compliance towards the Conditions Stipulated</th></tr>
<tr><td></td><td>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.</td><td rowspan="2">Industry is actively involved in socio-economic development of the region through contributions and donations through CSR activities. Photographs of CSR activity is enclosed at Annexure –VIII. Following are the details of expenditure made during the monitoring period:
<table>
<tr><th>Sr. No.</th><th>ESC Activities</th><th>Amount</th></tr>
<tr><td>1.</td><td>Sports promotion funding</td><td>Rs. 2.43 Lakhs</td></tr>
<tr><td>2.</td><td>Funding for Social Activities</td><td>Rs. 11.64 Lakhs</td></tr>
<tr><td>3.</td><td>Medical Aid</td><td>Rs. 9.43 Lakhs</td></tr>
<tr><td>4.</td><td>Drip Irrigation Subsidy</td><td>Rs. 17.80 Lakhs</td></tr>
<tr><td>5.</td><td>Funding for Education</td><td>Rs. 4.66 Lakhs</td></tr>
<tr><td>6.</td><td>Funding for Cultural Programme</td><td>Rs. 0.50 Lakhs</td></tr>
<tr><td>7.</td><td>Provision of Drinking Water Facility</td><td>Rs. 00 Lakhs</td></tr>
<tr><td></td><td>Total</td><td>Rs. 46.46 Lakhs</td></tr>
</table></td></tr>
<tr><td>23.</td><td>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.</td></tr>
<tr><td>24.</td><td>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 functions.</td><td>The industry has an Environmental Management Cell (EMC) functioning. Members of the EMC are well qualified and experienced in their concerned fields.
Structure of EMC is enclosed at Annexure – IX.</td></tr>
<tr><td>25.</td><td>Condition No. 12
The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by 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.</td><td>Please refer compliance under Specific Condition No. 8 above.</td></tr>
<tr><td>26.</td><td>Condition No. 13</td><td></td></tr>
</table>

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation. Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	The condition is complied with necessary action.
27.	**Condition No.14** 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.	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/ Acknowledgment of previous Six Monthly Compliance report for period April 2020 to September 2020. is enclosed at **Annexure – X.**
28.	**Condition No.15** 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.	The environmental statement for each financial year ending 31st March in Form-V will be submitted to State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, and amended subsequently. Acknowledgements of same are attached at **Annexure – XI.** The company will also put the status of compliance of environmental clearance conditions on its website and forward it to the Regional Offices of MoEF.
29.	**Condition No. 16** 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 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.	As per EIA notification within 7 days from the date of issues of the clearance letter, at least in the two local newspapers. The Environmental Clearance was granted on date 20.12.2016. therefore, an advertisement of accord of EC to our 12000 TCD Sugar Capacity has been published in two local newspapers one is local language (Tarun Bharat) and English newspaper (The Time of India) is on 25.12.2016. Advertisement copy is enclosed at **Annexure XII**.

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
30.	**Condition No. 17** 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.	Date of financial closure in connection with the Industrial Project is 31st March.

Brief Summary of the Project

1	Name of Project	:	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., (JSSSKL), Hupari**
2.	Clearance Letter No. & date	:	F.No.IA-J-11011/146/2020-IA II (I) Dated 1st December, 2020.
3.	Location: District & State/UT	:	Dist.: Kolhapur. State: Maharashtra.
4.	Address for Correspondence	:	Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, Maharashtra 416 203.
5.	Six Monthly Compliance for Period		October 2020 to March 2021

Six monthly (Period October 2020 to March 2021) Compliance report for Sugar Unit of Capacity 16000 TCD by M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. (JSSSKL), Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal. Hatkanangale, Dist.: Kolhapur, Maharashtra 416203.

M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. (JSSSKL) received Environmental Clearance (EC) on 01.12.2020 vide letter no. F.No.IA-J-11011/146/2020-IA II (I) for 16000 TCD sugar unit. But till the date no any work regarding expansion have been done on site.

Compliance of Specific and General Conditions mentioned in Environmental Clearance (EC) letterF.No.IA-J-11011/146/2020-IA II (I) Dated 1st December, 2020. for period from October 2020 to March 2021 presented as follows-

<table>
<tr><th>Sr. No</th><th>Environmental Clearance Conditions</th><th>Compliance towards the Conditions Stipulated</th></tr>
<tr><td></td><td>SPECIFIC CONDITIONS</td><td></td></tr>
<tr><td>1.</td><td>Condition No.1
The company shall comply with all the Environmental protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.</td><td>Compliance strictly followed. The Company is complying with all the environmental protection measures and safeguards and implement all the recommendations made in EIA/EMP.
Details are given in table below:
<table>
<tr><th rowspan="2">No.</th><th rowspan="2">Description</th><th colspan="2">Cost (Rs. Lakhs)</th></tr>
<tr><th>Capital</th><th>Annual O & M</th></tr>
<tr><td colspan="4">A. Sugar Factory & Co-gen Plant (Existing Project)</td></tr>
<tr><td>1</td><td>ETP</td><td>.3.60</td><td>.54.30</td></tr>
<tr><td>2</td><td>APC Equipment</td><td>0.00</td><td>12.60</td></tr>
<tr><td>3</td><td>Environmental Monitoring</td><td>0.00</td><td>7.64</td></tr>
<tr><td>4</td><td>Greenbelt</td><td>0.00</td><td>15.47</td></tr>
</table></td></tr>
</table>

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
		<table><tr><td></td><td>**Total**</td><td>Rs.3.60 Lakhs</td><td>Rs.90.01 Lakhs</td></tr><tr><td colspan="4">**B. Sugar Factory (Expansion Project)**</td></tr><tr><td>1</td><td>ETP Up-gradation</td><td>10.00</td><td>1.00</td></tr><tr><td>2</td><td>Installation of STP</td><td>50.00</td><td>3.00</td></tr><tr><td>3</td><td>Noise Pollution Control Measures</td><td>15.00</td><td>3.00</td></tr><tr><td>4</td><td>Green Belt Augmentation Plan</td><td>10.00</td><td>2.50</td></tr><tr><td>5</td><td>Occupational Health & Safety</td><td>25.00</td><td>2.50</td></tr><tr><td colspan="2">Total (3% of Capital Investment of Rs.34 Cr.)</td><td>Rs. 110.00</td><td>Rs. 12.00</td></tr><tr><td colspan="2">**Total (A + B)**</td><td>**Rs. 1963.05**</td><td>**Rs. 151.89**</td></tr></table>
2.	**Condition No.2** As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated industrial effluent shall not be used for gardening development/horticulture and not to send outside/used for farming.	No effluent will be discharged outside the Industry premises. Our Industry is in process for achieving ZLD.
3.	**Condition No.3** As proposed, Total fresh water requirement shall be 328 cum/day, proposed to be met from Dudhganga River. Prior permission shall be obtained from the concerned regulatory authority in this regard, and renewed from time to time.	Total fresh water requirement will be 328 cum/day. The same to be taken from Dudhganga river for which permission has already been procured. Copy water lifting permission from irrigation department is enclosed at **Annexure II.**
4.	**Condition No.4** Occupational health center for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers and employees shall be provided with required safety kits/mask for personal protection.	Occupational health surveillance is carried out for all employees and records are maintained. A sample copy of latest health check-up report is attached at **Annexure -V.**
5.	**Condition No.5** The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	Industry is following the safety measures during manufacturing process in material handling. Fire-fighting system is also as per the norms.
6.	**Condition No.6** Process organic residue and spent carbon, if	This condition is Not Applicable .

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	any shall be sent to Cement/other suitable industries for its incinerations/management.	
7.	**Condition No.7** Project Proponent shall reduce the quantity of effluents generation in the unit and PP shall install the effective wastewater treatment system so that Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Adequate system shall be in place for controlling the odour and mitigation measures to protect the contamination of ground/surface water.	Industry has already complied water management and reduced effluent generation. No effluent will be discharged outside the Industry premises.
8.	**Condition No.8** The company shall undertake waste minimization measures as below:- (a) Metering and control of quantities of active ingredients to minimize waste. (b) Reuse of by-product from the process as raw materials substitutes in order processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressures hoses for equipment clearing to reduce wastewater generation.	This condition is Not Applicable.
9.	**Condition No.9** The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.	Total 62,279 Nos. of trees have been planted in the factory premises. Out of the total plot of 246 Acres (99.55 Ha.), 83.20 Acres (34.00 Ha.) area comes under Greenbelt. This comes to about 34% of total plot area. Details and Photographs of Green belt is enclosed at **Annexure -VI.**
10.	**Condition No.10** As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address	Industry will implement the Corporate Environmental Responsibility as per the action plan proposed in EIA and approved by MoEFCC.

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	the public hearing and socio-economic issues in the study area, the project proponent, as committed, shall provide support of clean & safe drinking water supply, non-conventional energy promotion, supply of MSW management infrastructure, medical & healthcare facilities in the nearby villages. The action plan shall be complete within five years as proposed. All the commitments made during public hearing shall be satisfactorily implemented.	
11.	**Condition No.11** The project proponent shall ensure rain water harvesting system in the project area and reduce dependency on fresh water from the river.	Rain water harvesting plan is being implemented on site. Thereunder, roof top area is available on site (71419.00 M^2) water is being harvested and is utilized for domestic purpose and gardening.
12.	**Condition No.12** There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, And no parking to be allowed outside on public places.	Dedicated parking facility has been provided at the factory site. Including this, good traffic management is also being implemented to prevent traffic congestion.
13.	**Condition No.13** Storage of raw material shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Cane yard is provided for sugar cane and other storage yard provided at site.
14	**Condition No.14** Continuous online (24X7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel / drain carrying effluent within the premises.	ESPs as APC are provided followed by stack height of 75M (common for 90 TPH and 20 TPH) & 72M for 75 TPH boiler to control particulate matter and Gaseous pollutants. Also, online monitoring system is installed at stack. OCMS for ETP is also installed in the Industry. Moreover, all the results (Real Time) are displayed continuously on a "Electronic Digital Board" provided at the Main Entrance Gate of the Sugar Factory. Photographs of OCMS provided at our sugar factory is enclosed at **Annexure -I**.
15	**Condition No.15** A separate Environmental Management cell (having qualified person with Environmental Science/Environmental Engineering/ specialization I n the project area) equipped with full-fledged laboratory facilities shall be	The industry has an Environmental Management Cell (EMC) functioning. Members of the EMC are well qualified and experienced in their concerned fields. A separate Environment Management cell of 15 Persons is already

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	set up to carry out the Environmental Management and Monitoring functions.	established. Structure of EMC is enclosed at **Annexure-IX.**
	GENERAL CONDITIONS	
16.	**Condition No. 1** No further expansion or modifications in the plant , other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change/SEIAA as applicable. 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.	Compliance strictly will be followed. No expansion or modifications in the plant shall be carried out without prior approval of Ministry of Environment, Forests and Climate Change (MoEFCC) / Department of Environment, Govt. of Maharashtra.
17.	**Condition No. 2** The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.	Industry is using LED based lighting for energy conservation and environment betterment.
18.	**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.	The monitoring station locations are decided as per wind rose pattern and as per norms. Ambient Air Quality Monitoring Stations should be set up in the down wind direction and upwind direction as well as where maximum ground level concentration of SPM, SO2, and NOx, are anticipated in consultation with the State Pollution Control Board. Ambient air quality monitoring is routinely done by the Industry under self-monitoring practices. Monitoring reports is enclosed at **Annexure -VII.**
19.	**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.	
20.	**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	Compliance strictly being followed. No major noise generating source exists in the 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.

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Monitoring reports is enclosed at **Annexure - VII.**
21.	**Condition No. 6** The Company shall harvest rainwater from the rooftops 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.	Rain water harvesting plan is being implemented on site. Thereunder, roof top area is available on site (71419.00 M^2) water is being harvested and is utilized for domestic purpose and gardening.
22.	**Condition No.7** Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handing of chemicals shall be imparted.	Training sessions/workshops for employees on safety and health aspects are organized from time to time. Also, periodical medical examination for all employees is arranged on regular basis. Onsite record of the same is maintained.
23.	**Condition No. 8** 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.	The compliance towards fulfillment of socio – economic conditions is presented in the EIA Report and same was accepted by MoEFCC. Also, similar activities will be undertaken by the industry in future.
24.	**Condition No. 9** The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Industry is actively involved in eco-developmental measures of the region through contributions and donations through CSR activities. Photographs of CSR activity is enclosed at **Annexure –VIII**. Following are the details of expenditure made during the monitoring period: **Sr. No.** / **ESC Activities** / **Amount** 1. Sports promotion funding — Rs. 2.43 Lakhs 2. Funding for Social Activities — Rs. 11.64 Lakhs 3. Medical Aid — Rs. 9.43 Lakhs

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
		4. Drip Irrigation Subsidy — Rs. 17.80 Lakhs 5. Funding for Education — Rs. 4.66 Lakhs 6. Funding for Cultural Programme — Rs. 0.50 Lakhs 7. Provision of Drinking Water Facility — Rs. 00 Lakhs **Total — Rs. 46.46 Lakhs**
25.	**Condition No. 10** The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by 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.	Please refer compliance under Specific Condition No. 1 above.
26.	**Condition No. 11** A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation. Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	The condition is complied with necessary action.
27.	**Condition No. 12** 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.	Regular Six Monthly Compliance Reports have been submitted under existing unit and copies of same are also displayed on company website The following is the link company's website http://www.jawaharsugar.com/.
28.	**Condition No. 13** The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the	The environmental statement for each financial year ending 31st March in Form-V will be submitted to State Pollution Control Board as

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	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.	prescribed under the Environment (Protection) Rules 1986, and amended subsequently. Acknowledgements of same are attached at **Annexure-XI.** The company will also put the status of compliance of environmental clearance conditions on its website and forward it to the Regional Offices of MoEF.
29.	**Condition No.14** 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 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.	As per EIA notification within 7 days from the date of issues of the clearance letter, at least in the two local newspapers. The Environmental Clearance was granted on date 1st December, 2020. Therefore, an advertisement of accord of EC to our 16000 TCD Sugar Capacity has been published in two local newspapers one is local language (Tarun Bharat) and English newspaper (The Time of India) is on 5.12.2020. Advertisement copy is enclosed at **Annexure XII**.
30.	**Condition No.15** 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.	Date of financial closure in connection with the Industrial Project is 31stMarch.
31.	**Condition No. 16** This Environmental clearance is granted subject to final outcome of Hon'ble Supreme court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Not Applicable to this project.

Annexure I
Photographs of ESP and Stack

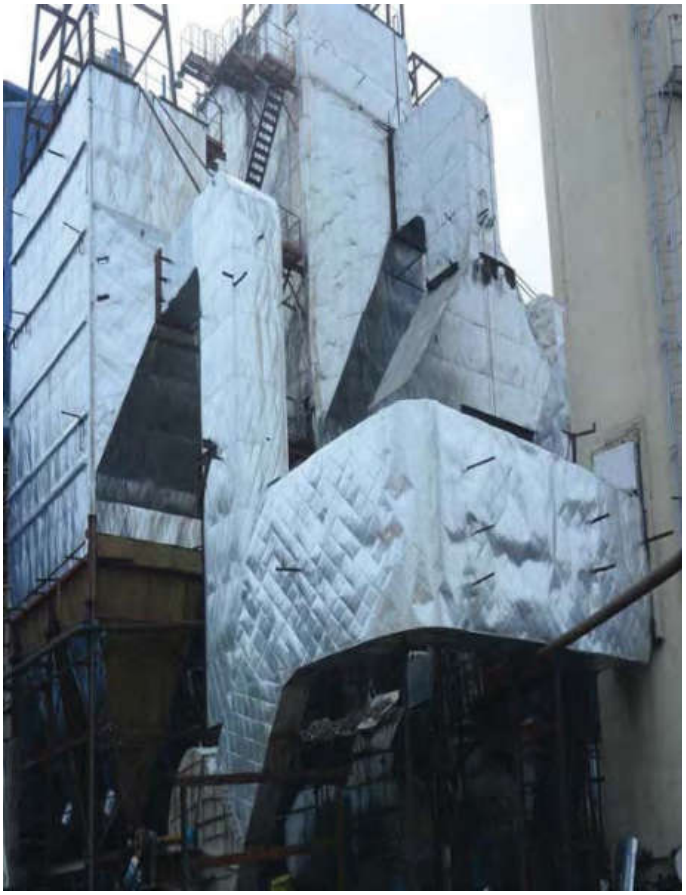
90, 20 & 75 M.T. /hr capacity
Boiler Chimney.
75 Mtr. and 72 Mtr.
Height respectively

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

JawaharSSSK Ltd.,Hupari

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

Electro Static Precipitator for20 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
Water Lifting Permission

कोल्हापूर पाटबंधारे विभाग (उत्तर), कोल्हापूर.
सिंचन भवन, ताराबाई पार्क, कोल्हापूर-४१६००३.
दूरध्वनी क्रमांक (०२३१) २६५४७३६,फॅक्स क्र.(०२३१)२६५४७३५,ईमेलeekidkop@gmail.com

जा.क्र.कोपावि(उ)/प्रशा-३/(३७)/बिगरसिंचन/ ४९४४/सन २०१८, दिनांक :- ०४/०५/२०१८

प्रति,

कार्यकारी संचालक
जवाहर शेतकरी सह साखर कारखाना लि हुपरी
ता हातकणंगले जि. कोल्हापूर

विषय :- <u>बिगर सिंचन ६वर्षिय करारनामा मंजुरी बाबत</u>
१/०५/२०१८ ते ३०/०४/२०२४

संदर्भ :- १) १) मा. मुख्य अभियंता (जस)जलसंपदा विभाग पुणे यांचे ज्ञापन पत्र जा क्र मु अ (जस)/(२९६/२०१७)/प्रशा-७/५१८८ दि. ०७/१२/२०१७
२) पृष्ठांकन अधिक्षक अभियंता कोल्हापुर पाटबंधारे मंडळ कोल्हापुर को पा म /प्रशा-१/७८९१/२०१७ दि २२/१२/२०१७

उपरोक्त संदर्भिय पत्र क्र. १ अन्वये आपणास ~~वेदगंगा~~ दुधगंगा प्रकल्पातुन ~~वेदगंगा~~ दुधगंगा नदितुन पिण्यासाठी ०.१२० दलघमी व औद्योगिक कारणासाठी ०.०४८ दलघमी असा एकूण ०.१६८० दलघमी इतका सुधारित पाणी कोटा मंजूर असुन. आपण केलेल्या विनंती अर्जानुसार आपला दि ०१/०५/२०१८ते ३०/०४/२०२४ या कालावधीचा करारनामा खालील अटींच्या अधिन राहूनमंजुर करणेत येत आहे.

१) संदर्भिय पत्र क्र १ मधील सर्व अटी व शर्ती बंधनकारक रहातील.
२) संदर्भिय पत्र क्र. १ अन्वये केलेली मागणी ही पुर्वी नियोजित असलेमुळे मंजूर परिमाण किंवा त्या कालावधीचा प्रत्यक्ष पाणीवापर यापैकी जादा असणाऱ्या पाणी वापराची आकारणी करण्यात येईल.
३) दि.०१/११/२०१७ ते ३१/१०/२०२३ या कालावधीसाठी रू. १००० च्या स्टॅम्प पेपरवर करारनामा करणे बंधनकारक आहे.
४) ज्याठिकाणी योजनेचा पंप हाऊस आहे. त्या ठिकाणी इलेक्ट्रॉनिक मोजणी यंत्र बसविणे आवश्यक असून, नोंदी ठेवण्यासाठी लॉगबुक ठेवणे आवश्यक आहे.तसेच संस्थेचा पाणीवापर पिण्यासाठी व औद्योगिक वापर वेगवेगळा असेल तर त्यासाठी वेगवेगळी इलेक्ट्रॉनिक मोजणी यंत्र बसविणे बंधनकारक असुन न बसविल्यास आकारणी औद्योगिक दराने करणेत येईल. यासर्व इलेक्ट्रॉनिक मोजणी यंत्राची नोंद वही ठेवणे बंधनकारक आहे. यासर्व इलेक्ट्रॉनिक मोजणी यंत्राची दरवर्षी कॅलिब्रेशन प्रमाणपत्र सादर करणे बंधन कारक आहे.
५) इलेक्ट्रॉनिक मोजणी यंत्र बसविणेची कार्यवाही न केलेस आपणास मुळ मंजूरीनुसार दिडपट दराने आकारणी करण्यात येईल याची कृपया नोंद घ्यावी.
६) जलसंपदा विभाग शासन निर्णय क्र. पापव-२०१५/(प्रक्र ८८/२०१५)/सिंव्य(महसूल) दि. २१/०४/२०१६ अन्वये आपल्या संस्थेचे सांडपाणी विसर्जित करताना सांडपाण्याची गुणवत्ता महाराष्ट्र प्रदुषण नियंत्रण मंडळाकडून दर महिन्याला तपासून प्रदूषण होत नसल्याबाबतचे प्रमाणपत्र जलसंपदा विभागास देणे बंधनकारक राहील.

७) जर महाराष्ट्र प्रदुषण नियंत्रण मंडळाच्या विहीत प्रमाणकांची गुणवत्ता येईपर्यंत सांडपाण्यावर उचीत प्रक्रिया केली नसेल तर अशा प्रकरणी अनुज्ञेय दराच्या दुप्पट दराने आकारणी करणेत येईल. महाराष्ट्र प्रदुषण नियंत्रण मंडळाकडून स्वतंत्रपणे करण्यात येत असलेल्या कार्यवाही व्यतिरिक्त ही (दंडनीय) आकारणी असेल.

८) महाराष्ट्र प्रदुषण नियंत्रण मंडळाकडून त्यांच्या तपासणीत ज्या दिनांकास पाणी वापरकर्ता प्रदुषण कर्ता असल्याचे घोषित करणेत येईल त्या दिनांकापासून पूर्वलक्षी प्रभावाने प्रचलित अनुज्ञेय दराच्या दुप्पट दराने पाणीपट्टी वसुली आकारण्यात येईल. ही आकारणी महाराष्ट्र प्रदुषण नियंत्रण मंडळाकडून स्वतंत्रपणे करणेत येत असलेल्या कार्यवाही व्यतिरिक्त असेल.

९) महाराष्ट्र प्रदुषण नियंत्रण मंडळाने पाणी पुरवठा खंडीत करावयाचे आदेश काढल्यास त्यानुसार कार्यवाही करणेत येईल व सदर मंडळाने पाणी पुरवठा पुर्ववत करण्याचे आदेश काढल्यानंतर दंडनीय आकारणीसह सर्व वसुली भरुन घेतल्यानंतर पाणी पुरवठा पुर्ववत सुरु करण्यात येईल.

१०) त्याचप्रमाणे शासनामार्फत बिगर सिंचन पाणी वापराबाबत वेळोवेळी निर्गमित होणारे शासन निर्णय व मुळ मंजूर परवान्यातील अटी आपल्यावर बंधनकारक राहतील याची कृपया नोंद घ्यावी.

११) आपल्या संस्थेस मंजूर करण्यात आलेल्या ०.१६८० दलघमी वापरापेक्षा +/- १०% पाणी वापर (अधिक / कमी) झाल्यास फरकाच्या वापरास दंडनीय दर लागू दराच्या दीडपटने आकारणी करणेत येईल याची नोंद घ्यावी.

१२) शासन परिपत्रक क्र.२०१३//प्र क्र ३५७/२०१३)सिं व्य (महसुल) दि ३ जुन २०१५ नुसार आपल्या संस्थेने प्रत्यक्ष केलेला घरगुती व वाणिजिक /औधोगिक तसेच कच्चा माल म्हणुन केलेल्या पाण्याचा वापर ,प्रक्रियेसाठी केलेल्या पाण्याचा वापर ई माहिती (दि १ एप्रिल ते ३१ मार्च दरवर्षी १५ मे पुर्वी जलसंपदा विभागास विहीत प्रपत्रात सादर करणे बंधनकारक आहेसदर प्रत्यक्ष पाणी वापराची माहिती (प्रपत्र १ व प्रपत्र २)मध्ये उपलब्ध करुन न दिल्यासपाणी पट्टी आकारणी दंडणीय दराने करणेत येईल व सदर परिपत्रकातील सुचनेस अनुसरुन कार्यवाही करणेत येईल

उपकार्यकारी अभियंता,
कोल्हापूर पाटबंधारे विभाग(उत्तर),
कोल्हापूर.

स्थळ प्रत का.अ.यांनी मंजूर केली.

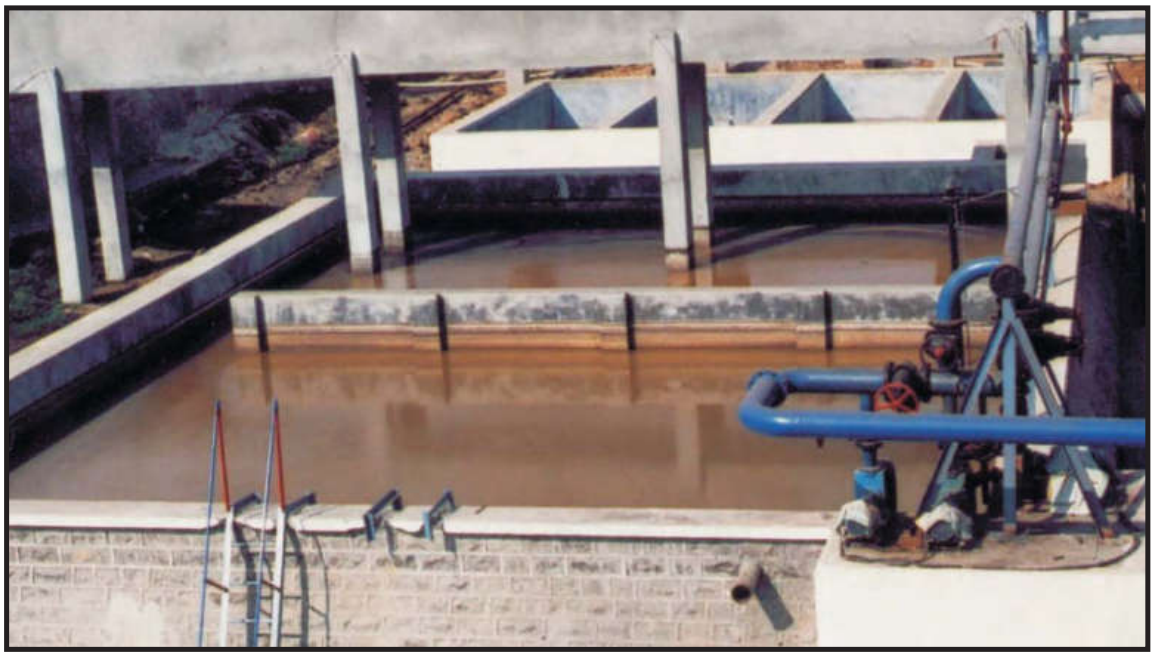
प्रत :- सहाय्यक अभियंता दुधगंगा पाटबंधारे उपविभाग निढोरी यांना माहितीसाठी याबाबतची कार्यवाही काटेकोरपणे करणेसाठी रवाना. याबाबतची कार्यवाही काटेकोरपणे करणेसाठी

प्रत :- सिंचन शाखा २ , विभागिय कार्यालय यांना माहितीसाठी व कार्यवाहीसाठी रवाना.

JAWAHAR SSSK LTD., HUPARI
I/W No. 9204 Date 5/5/16
Sent to CE, CCO
Authorised Signature

Annexure III
Photographs of ETP and Monitoring reports

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



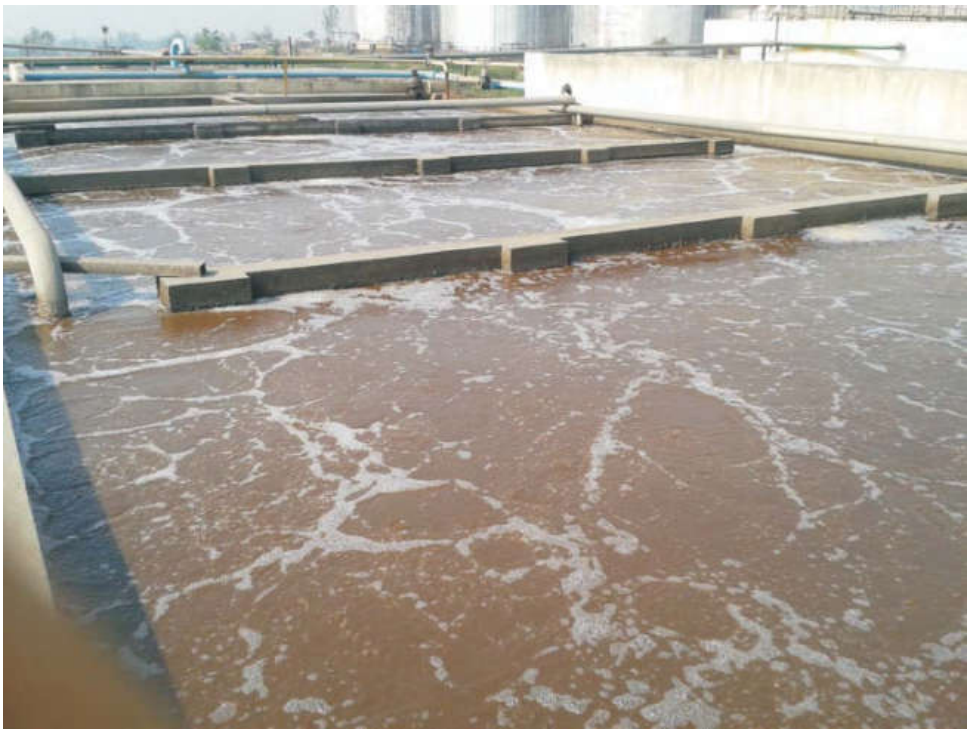
New equalization tank and feeding system to old and new stream
20 M^3/hr.+ 70 M^3/hr.

New anaerobic counter current digester 70 M^3/hr. and preareation tank outlet

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

Floating aerator

New diffuse aeration tank



Old diffuse aeration tank

Secondary clarifier new stream

Secondary clarifier old stream

Tertiary system to streams 100 M^3/hr. each
Power sand filter followed by plant based activated carbon &
polishing unit comprising high grade anthracite and activated carbon

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

Flow meter for outlet Treated Water

Treated Water outlet Tank

System for Treated Water Monitorning

Treated Water Outlet

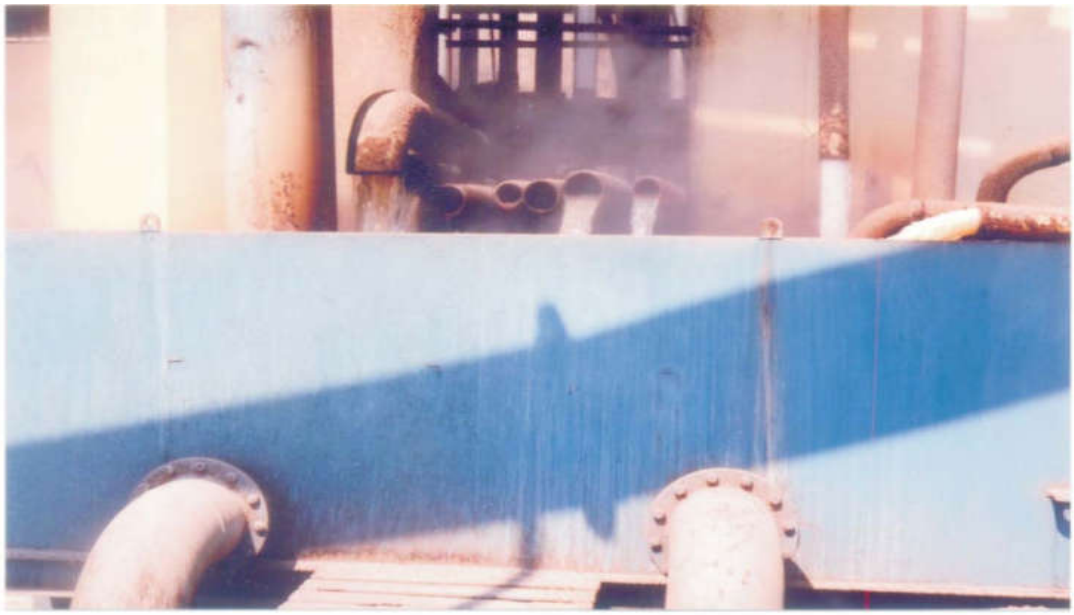
Sludge Drying Bed

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

15 Days Storage Tank-1

15 Days Storage Tank-2

Electric energy meter for E.T.P.



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

Mini spray pond
capacity 10200 M^3/day water recycle
inlet temprature 58°C to 60°C outlet temprature 28 to 30°C

- 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

EQUINOX

Equinox Environments (India) Pvt. Ltd.

ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: DECEMBER 02, 2020

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/404
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:	24.11.2020.
Analysis Date:	25.11.2020.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	2.85	7.67	6.5-8.5	--
02	Suspended Solids (SS)	163.74	21.47	100	mg/lit
03	Total Dissolved Solids (TDS)	2258.32	782.30	2100	mg/lit
04	Chemical Oxygen Demand (COD)	2923.95	70.12	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1290.44	25.01	100	mg/lit
06	Chlorides as Cl^-	675.42	190.36	600	mg/lit
07	Sulphates as SO_4^{--}	563.51	145.29	1000	mg/lit
08	Oil & Grease	2.11	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Limit.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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EQUINOX
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ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: DECEMBER 21, 2020

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/599
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:	12.12.2020.
Analysis Date:	14.12.2020.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.01	7.75	6.5-8.5	--
02	Suspended Solids (SS)	156.85	19.02	100	mg/lit
03	Total Dissolved Solids (TDS)	2856.32	695.83	2100	mg/lit
04	Chemical Oxygen Demand (COD)	3169.80	65.27	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1210.49	23.85	100	mg/lit
06	Chlorides as Cl^-	765.92	180.30	600	mg/lit
07	Sulphates as SO_4^{--}	650.37	136.92	1000	mg/lit
08	Oil & Grease	2.36	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Limit.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: JANUARY 21, 2021

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/698
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:	14.01.2021.
Analysis Date:	15.01.2021.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.25	7.61	6.5-8.5	--
02	Suspended Solids (SS)	174.62	17.44	100	mg/lit
03	Total Dissolved Solids (TDS)	3065.93	650.23	2100	mg/lit
04	Chemical Oxygen Demand (COD)	3218.05	68.82	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1334.67	25.06	100	mg/lit
06	Chlorides as Cl^-	746.30	169.83	600	mg/lit
07	Sulphates as SO_4^{--}	523.42	123.27	1000	mg/lit
08	Oil & Grease	2.00	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Limit.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/794
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:	10.02.2021.
Analysis Date:	11.02.2021
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.49	7.52	6.5-8.5	--
02	Suspended Solids (SS)	174.96	18.30	100	mg/lit
03	Total Dissolved Solids (TDS)	3069.53	700.12	2100	mg/lit
04	Chemical Oxygen Demand (COD)	3596.71	62.55	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1495.85	24.39	100	mg/lit
06	Chlorides as Cl^-	800.90	214.67	600	mg/lit
07	Sulphates as SO_4^{--}	569.32	157.42	1000	mg/lit
08	Oil & Grease	6.00	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Limit.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

DATE: FEBRUARY 16, 2021

- 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, 2021

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/905
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:	10.03.2021.
Analysis Date:	11.03.2021
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.55	7.68	6.5-8.5	--
02	Suspended Solids (SS)	152.34	17.50	100	mg/lit
03	Total Dissolved Solids (TDS)	2895.61	623.04	2100	mg/lit
04	Chemical Oxygen Demand (COD)	2846.10	65.98	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1023.92	23.44	100	mg/lit
06	Chlorides as Cl^-	523.61	165.01	600	mg/lit
07	Sulphates as SO_4^{--}	230.14	110.57	1000	mg/lit
08	Oil & Grease	7.00	BDL	10	mg/lit

Note:

- *The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.*
- *BDL: Below Detectable Limit.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

Annexure IV
Photographs of Ash Collector

Boiler Ash handling system

Annexure V
Details of Health Surveillance Report

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

pany Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
0437	MR. MALLAPPA D KHADAKE	55	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1718	MR. SANJAY A CHAWARE	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1761	MR. AMOL D HANWADE	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1950	MR. SANJAY R PATIL	43	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0656	MR. BHIMRAO D KHOT	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1849	MR. RAJENDRA R HAWALDAR	58	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1767	MR. JIVANDHAR V KAMBLE	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0499	MR. KRISHNAT S MORE	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0755	MR. VIJAY R DANGARE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0623	MR. SHIVAJI K KOLI	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1639	MR. SHITAL A MALI	40	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1720	MR. NITIN B SHINTRE	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7262	MR. ROHIT S PATIL	28	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1507	MR. SUNIL M KESARKAR	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1556	MR. RAMESH D PATIL	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1548	MR. ANANDA R MAGDUM	47	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0396	MR. UDAY A AINEPURE	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1278	MR. UMESH B MANE	44	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1847	MR. PRAVIN B VATHARE	41	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम १०(२) प्रमाणे
कोल्हापूर जिल्हाकरिता
प्राधिकृत प्रमाणकशल्यचिकित्सक
क्र. ACS 15-AM/2016

Dr. ARVIND A. MANE
M.B.B.S. D.P.H.A.F.I.H. (MUMBAI)
MMC REGD. NO. : 2010/10/3176
GOVT. OF INDIA-GDFASLI REGD. NO.-02388
Consultant Industrial Health Physician

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

HEALTH REGISTER

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DR.ARVIND MANE
MBBS DPH AFIH.(Mumbai)

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Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
1426	MR. SURESH S KORVI	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1439	MR. SANJAY S BANNE	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0968	MR. RAJENDRA D KORADE	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1815	MR. RAMDAS K DAGADE	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7035	MR. SHITAL M AKKIVATE	29	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1023	MR. RAMCHANDRA GHORPALE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2147	MR. VIJAY S MANE	40	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7031	MR. RAHUL S HANBHAR	26	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1050	MR. NARSU K MORE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7111	MR. PRAKASH V PUJARI	24	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1031	MR. SUNIL M KAMBLE	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2212	MR. MAHENDRA L HARUGADE	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1592	MR. VASANT D KAGALE	57	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0233	MR. TATYASO K SHIRPUSE	58	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7006	MR. SURAJ D PATIL	29	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1073	MR. MAHADEV G HEGADE	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
6027	MR. RAMESH R AWATE	30	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0853	MR. IQBAL A ATTAR	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0168	MR. IMTIAZ BHADGAONKAR	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम १०(२) प्रमाणे
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प्रमाणित प्रमाणकआरोग्यविकिरसक

Dr. ARVIND A. MANE
M.B.B.S. DPH AFIH (MUMBAI)
MMC REGD. NO. : 2010/10/3176
GOVT. OF INDIA-COFASU REGD. NO.-02380
Consultant Industrial Health Physician

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

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pany Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

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0650	MR. MAYAPPA L MUDALE	55	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1404	MR. DHANAJIRAO S SHINDE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1631	MR. BHARAT B SALOKHE	48	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1331	MR. SANJAY A GAT	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2001	MR. DADASO A PATIL	34	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0001	MR. MANOHAR G JOSHI	58	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1667	MR. SACHIN A PATIL	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7226	MR. RAMCHANDRA B KOLI	27	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0242	MR. NITIN B BHOSALE	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1314	MR. KUMAR B KHUL	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1437	MR. SADIK I MUJAWAR	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0668	MR. ASHOK V DESAI	57	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7257	MR. VISHAL J KAMBLE	25	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0994	MR. LAXMAN S LALI	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1223	MR. BALASO K KAMBLE	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1954	MR. RAHUL V MUDRALE	43	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1198	MR. SAMEER H KOTWAL	44	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1868	MR. BALASO A SANADI	53	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1597	MR. SUBHASH J AMTE	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

Dr. ARVIND A. MANE
M.B.B.S., D.P.H.,A.F.I.H. (Mumbai)
MMC REGD. NO. : 2010/10/3176
GOVT. OF INDIA-GDFASLI REGD. NO.-02305
Consultant Industrial Health Physician

कोल्हापूर जिल्हाकचेरी
सहायक कामगार आयुक्त

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

pany Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 wit signature of Certifying Surgeon	If Certificate of unfitness or suspention issued to worker	Signature with gate certifying surgeon.
6004	MR. BHARAT J CHOUGULE	43	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1958	MR. PRASHANT S PATIL	35	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0992	MR. BABURAO A KAMATE	53	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1607	MR. KAKASO S TIKUTE	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7345	MR. MARUTI S MANE	37	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0245	MR. BALASO D SASANE	55	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0910	MR. RAJENDRA A GANGAI	48	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1262	MR. NISHIKANT N PATIL	40	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2143	MR. PRASHANT V CHAKOTE	38	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7108	MR. AMOL S DESHMANE	24	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2169	MR. ANIL R CHOUGULE	43	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7214	MR. ROHIT R PATIL	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1986	MR. FARUKH S SANADI	33	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7441	MR. PRAVIN R DANDAGE	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2213	MR. PADMAKAR B PATIL	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0953	MR. RAJENDRA A LATTIMARDI	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1009	MR. MADHUKAR M MALI	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2133	MR. AVINASH P PATANKAR	27	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0625	MR. SAGAR R PATIL	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

Dr. ARVIND A. MANE
MBBS, DPH & FIH, (MUMBAI)
MMC REGD. NO. : 2010/10/3170
ADVT. DR. INDRA GOFASLI REGD. NO.-02309
Consulting Industrial Health Physician

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

pany Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
1018	MR. BAPUSO B GHONGADE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1348	MR. RAMESH S WADD	47	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1692	MR. MUSTAK A NAYANI	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7310	MR. DIPAK V PARIT	21	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1680	MR. BABASO S DHAINGADE	40	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1897	MR. AMOL G HANDE	39	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1411	MR. JITENDRA B PATIL	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7238	MR. ANURAJ V YADAV	24	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7181	MR. TOUSIF H MUJAWAR	28	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7003	MR. SACHIN M AKURDE	28	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1395	MR. ADINATH P KUMBHAR	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1022	MR. KIRAN S DHALGAVE	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1547	MR. KRUSHNATH GOUD	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1833	MR. SURESH M SULKUDE	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2040	MR. SWAPNIL B CHOUGULE	34	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1503	MR. KIRAN S KURNE	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0092	MR. LAXMAN K CHOUGULE	55	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7021	MR. AJIT A PATIL	25	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1860	MR. DURGADAS N KUMBHAR	41	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ चा कलम १०(२) प्रमाणे
कोल्हापूर जिल्हाकरिता
प्राधिकृत प्रमाणकाल्यधिकारक

Dr. ARVIND A. MANE
M.B.B.S., D.P.H.A.F.I.H. (MUMBAI)
MMC REGD. NO. : 2010/10/3176
GOVT. OF INDIA-GOFASLI REGD. NO.-02369
Consultant Industrial Health Physician

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

any Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
0091	MR. SHAILESHKUMAR VELLA	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7034	MR. HARSHAL D PATIL	24	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7317	MR. SAURABH HANABARHADDI	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
6227	MR. GAIBI H HAJARI	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0303	MR. PANDURANG G PATIL	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1549	MR. PRAKASH K PAWAR	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1861	MR. AJIT A PATIL	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1568	MR. SHRIKANT V PATIL	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7430	MR. SUSHANT B MALLIWADE	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7434	MR. VIJAY V BHOSALE	20	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7344	MR. SAGAR S AAIVALE	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7376	MR. SHITAL S PATIL	21	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7019	MR. BALASO B KOLAJ	35	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1773	MR. SUDHAKAR S KOIK	41	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0906	MR. VIKRAM D JADHAV	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1941	MR. KIRAN D KOLI	44	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0996	MR. RAKESH D MALI	47	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
-	MR. RAHUL BHADURWADE	27	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0302	MR. ASHOK A PATIL	56	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम १०(२) प्रमाणे
कोल्हापूर जिल्हाकरिता
प्राधिकृत प्रमाणकआरोग्यचिकित्सक
क्र. ACS 15-AM/2016

Dr. ARVIND A. MANE
M.B.B.S. DPH AFIH (MUMBAI)
MMC REGD. NO. : 2010/10/3176
GOVT. OF INDIA-GDFASLI REGD. NO.-02388
Consultant Industrial Health Physician

Annexure VI
Photographs and Details of Green Belt

GREENBELT DEVELOPMENT AT
JAWAHAR SHETAKARI S.S.K. LTD. (JSSSKL),
AT: HUPARI, TAL.: HATKANANGALE, DIST.: KOLHAPUR, MAHARASHTRA

शेती/गार्डन
दि. ०८/०४/२०२१

चिफ केमिस्टसो,
यांचेकडे -

विषय : गार्डन विभागाकडील क्षेत्र निहाय झाडांची माहिती.

महोदय,

आपले दि. ०५/०४/२०२१ च्या डी.पी. नुसार दि.३१-०३-२०२१ अखेर गार्डन विभागाकडील झाडांची क्षेत्रवाईज माहिती खालीलप्रमाणे-

अ.न.	गट नं.	झाडांचे क्षेत्र	एकर गुंठे
१	१२५८	खोपी तळ	२२.३६
२	३१५/८,९	कॉलनीतील झाडे	५.००
३	३१५/११	केनयार्ड पश्चिम बाजू	३.३०
४	३१५/९,१०	ऑफीस मागील आंबा व गुलाब	३.००
५	३१५/१०	स्टेज परीसर	२.११
६	३१५/९, ९२५/९	मेन रोड साईट दोन्ही बाजू	१.१३
७	३१५/१४	राख अड्डा	०.१३
८	३१५/१४	हमाल शेड निलगिरी प्लॉट	४.२६
९	३१५/१४	हमाल शेड जंगली झाडे	४.१६
१०	३१५/११	कारखाना मेन गेट परिसर	०.०३
११	३१५/१४	स्विचयार्ड बैलगाडी अड्डा	०.२२
१२	३१५/११	तळ्याभोवतीचे क्षेत्र गोडा.१३ मागे	२.१०
१३	३१५/७	पेट्रोल पंप	०.०५
१४	३१५/८	कंपोस्ट यार्डातील बांबू	२.२५
१५	३१५/७,८,९	बियाणे मळा	१३.३०
१६	९२५/९	फ्लॉवर बेड	०.११
१७	३१५/९	गेस्टहाऊस, बोर्डरूम परिसर	०.१२
१८	९२५/९	करंज,चिक्कू,आंबा परिसर	२.०२
१९	९२५/९	म्हसोबा मंदीर परिसर	६.००
२०	९२५/९,३१५/९	राजराजेश्वरी मंदीर ते बियाणे मळा नारळ, अशोक	१.३१
२१	९२५/९	कॅनॉल बाजू नारळ, अशोक झाडे	१.०८
२२	९२५/९,३१५/९	गेटबाहेरील दोन्ही क्रॉसबेड	०.०८
२३	९२५/९	मंदीर परिसर	१.१०
२४	९२५/९	केनयार्ड ते राजराजेश्वरी मंदीर रोड	०.२२
२५	९२५/९	ट्रॅक्टर अड्डयातील झाडे	२.३६
		एकूण-	**८३.२०**

मुख्य शेती अधिकारी

E:\ABHISHEK\Garden DP.doc 262.19-20 .262.

जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी,

श्री कल्लाप्पाण्णा आवाडेनगर, हुपरी-यळगूड : ४१६ २०३, ता. हातकणंगले, जि. कोल्हापूर (महाराष्ट्र)
फोन नं. (०२३०)२४५०४०२ ते ६, फॅक्स नं.(०२३०)२४५०४०१,
ई-मेल : kprjsssk@gmail.com

कारखाना कार्यस्थळांवर असलेल्या विविध झाडांची माहिती

सन २०२१ दि. ०८/०४/२०२१

अ.नं.	तपशील	संख्या
अ)	**फळझाडे**	
१	नारळ	६१३
२	आंबा	३५०
३	चिक्कू	१५६
	एकूण -	१११९
ब)	**जंगली झाडे**	
१	रेनट्री	२७००
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	१२३९
३०	जांभूळ	१००
३१	प्लेटोफोरम	२५०
३२	बांबू	२७६३४
३३	काटेसावर	१७०
	एकूण	४५३६८
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**	**४५३९३**
क	**शोभीवंत झाडे**	**७२३८**
ड	**फूलझाडे**	**८५२९**
	एकूण -	**६२२७९**

मुख्य शेती अधिकारी

Annexure VII
Monitoring Reports

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

EQUINOX™
Equinox Environments (India) Pvt. Ltd.
ISO 9001 : 2015 & QCI -NABET Accredited Organization

DATE: DECEMBER 02, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/397
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:00 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	19.0 ^{0}C	
06	Relative Humidity	42.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	64.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.45 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	26.71 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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)

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

EQUINOX

Equinox Environments (India) Pvt. Ltd.
ISO 9001 : 2015 & QCI -NABET Accredited Organization

DATE: DECEMBER 02, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/398
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	10:10 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	19.0 ^{0}C	
06	Relative Humidity	42.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	59.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.95 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	24.76 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- *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)

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, MOBILE: 9657865122
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DATE: DECEMBER 02, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/399
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	10:20 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	19.0 ^{0}C	
06	Relative Humidity	42.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	67.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.43 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	25.50 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- *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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DATE: DECEMBER 02, 2020

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/400
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020
Time :	10:45 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	168^{0}C (441 K)
06	Differential Pressure	2.30 mm Wg
07	Velocity	6.05 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	269807.59 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	62.83 mg/Nm^3
02	Sulphur Dioxide (SO_2)	45.74 mg/Nm^3
		284.09 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/401
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020
Time :	12:00 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	175 ^{0}C (448 K)
06	Differential Pressure	3.00 mm Wg
07	Velocity	6.96 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	117962.86 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	58.42 mg/Nm^3
02	Sulphur Dioxide (SO_2)	35.65 mg/Nm^3
		100.93Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
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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, MOBILE: 9657865122
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DATE: DECEMBER 02, 2020

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/402
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	24.11.2020.
Time:	01:15 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	64.2	75
02	Near ETP	66.1	75
03	Near Bagas Section	68.2	75
04	Near Sugar Godown	62.9	75
05	Near Cane Yard	71.6	75

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- 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

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DATE: DECEMBER 02, 2020

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/403
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	24.11.2020.
Time:	02:00 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	82.2	90
02	Turbine Section	72.3	90
03	Boiler Section	86.0	90
04	Mill Section	84.1	90
05	Pan Section	97.5	90

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- H-128 (FIRST FLOOR), LAJPAT NAGAR PART-1, NEW DELHI-110 024
- L. I. G. 'B' 543, A.S. RAO NAGAR, E.C.I.L. POST, HYDERABAD, TELANGANA - 500 062
- THE MARYLANDER, 3501 SAINT PAUL STREET, APARTMENT NO. 233, BALTIMORE, MD - 21218, USA

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DATE: DECEMBER 21, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/592
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	09:40 A.M.	
03	Ambient Temperature	27.0 ^{0}C	
04	Dry Bulb Temperature	27.0 ^{0}C	
05	Wet Bulb Temperature	17.0 ^{0}C	
06	Relative Humidity	35.5 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	63.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	19.45 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	24.90 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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
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DATE: DECEMBER 21, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/593
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	09:50 A.M.	
03	Ambient Temperature	27.0 ^{0}C	
04	Dry Bulb Temperature	27.0 ^{0}C	
05	Wet Bulb Temperature	17.0 ^{0}C	
06	Relative Humidity	35.5 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	61.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	22.75 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	26.02 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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
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DATE: DECEMBER 21, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/594
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020

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 ^{0}C	
04	Dry Bulb Temperature	27.0 ^{0}C	
05	Wet Bulb Temperature	17.0 ^{0}C	
06	Relative Humidity	35.5 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	69.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	24.85 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	26.90 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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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DATE: DECEMBER 21, 2020

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/595
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020
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	171^0C (444 K)
06	Differential Pressure	1.50 mm Wg
07	Velocity	4.90 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	208284.81 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	59.23 mg/Nm^3
02	Sulphur Dioxide (SO_2)	39.15 mg/Nm^3
		195.70 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/596
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020
Time :	12:10 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	178 ^{0}C (451 K)
06	Differential Pressure	1.90 mm Wg
07	Velocity	4.60 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	93564.74 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	55.63 mg/Nm^3
02	Sulphur Dioxide (SO_2)	32.01 mg/Nm^3
		71.88 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: DECEMBER 21, 2020

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/597
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	12.12.2020.
Time:	01:30 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	63.5	75
02	Near ETP	65.4	75
03	Near Bagas Section	65.9	75
04	Near Sugar Godown	63.1	75
05	Near Cane Yard	72.0	75

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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
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DATE: DECEMBER 21, 2020

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/598
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	12.12.2020.
Time:	02:30 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	83.4	90
02	Turbine Section	75.1	90
03	Boiler Section	84.8	90
04	Mill Section	86.3	90
05	Pan Section	87.0	90

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).*

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 9822882822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890150522
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DATE: JANUARY 21, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/691
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:30 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	36.8 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	59.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	18.02 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	21.44 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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)

DATE: JANUARY 21, 2021

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AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/692
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	10:40 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	36.8 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	59.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.14 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	24.67 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
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DATE: JANUARY 21, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/693
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	10:55 A.M.	
03	Ambient Temperature	29.0 ^{0}C	
04	Dry Bulb Temperature	29.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	33.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	64.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	21.47 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	24.20 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
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DATE: JANUARY 21, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/694
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021
Time :	11:15 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	167^0C (440 K)
06	Differential Pressure	1.30 mm Wg
07	Velocity	4.54 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	194781.98 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	56.83 mg/Nm^3
02	Sulphur Dioxide (SO_2)	32.10 mg/Nm^3
		150.06 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/695
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021
Time :	12:30 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	172 ^{0}C (445 K)
06	Differential Pressure	1.50 mm Wg
07	Velocity	4.91 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	83693.03 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	52.66 mg/Nm^3
02	Sulphur Dioxide (SO_2)	28.05 mg/Nm^3
		56.34 Kg /Day

Note:

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- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

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(Dy. Head Monitoring)

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DATE: JANUARY 21, 2021

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/696
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	14.01.2021.
Time:	01:40 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	62.0	75
02	Near ETP	63.9	75
03	Near Bagas Section	64.1	75
04	Near Sugar Godown	61.8	75
05	Near Cane Yard	70.5	75

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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.*

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(Dy. Head Monitoring)

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DATE: JANUARY 21, 2021

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/697
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	14.01.2021.
Time:	02:20 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	82.5	90
02	Turbine Section	73.0	90
03	Boiler Section	81.6	90
04	Mill Section	84.5	90
05	Pan Section	85.9	90

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).*

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(Dy. Head Monitoring)

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DATE: FEBRUARY 16, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/787
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	02:30 P.M.	
03	Ambient Temperature	33.0 ^{0}C	
04	Dry Bulb Temperature	33.0 ^{0}C	
05	Wet Bulb Temperature	20.0 ^{0}C	
06	Relative Humidity	29.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	66.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	21.42 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	27.01 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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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DATE: FEBRUARY 16, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/788
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	02:40 P.M.	
03	Ambient Temperature	33.0 ^{0}C	
04	Dry Bulb Temperature	33.0 ^{0}C	
05	Wet Bulb Temperature	20.0 ^{0}C	
06	Relative Humidity	29.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	63.33 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.47 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	23.62 µg/cum	80 µg/cum

Note:

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AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/789
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	02:55 P.M.	
03	Ambient Temperature	33.0 ^{0}C	
04	Dry Bulb Temperature	33.0 ^{0}C	
05	Wet Bulb Temperature	21.0 ^{0}C	
06	Relative Humidity	33.4 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	70.36 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	21.85 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	23.40 µg/cum	80 µg/cum

Note:

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DATE: FEBRUARY 16, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/790
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021
Time :	03:30 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	180^0C (453 K)
06	Differential Pressure	1.10 mm Wg
07	Velocity	4.24 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	176583.73 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	56.86 mg/Nm^3
02	Sulphur Dioxide (SO_2)	36.92 mg/Nm^3
		156.47 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: 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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- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890160622
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DATE: FEBRUARY 16, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/791
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021
Time :	04:50 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	182 ^{0}C (455 K)
06	Differential Pressure	1.50 mm Wg
07	Velocity	4.96 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	82768.22 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	49.85 mg/Nm^3
02	Sulphur Dioxide (SO_2)	28.01 mg/Nm^3
		55.64 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: FEBRUARY 16, 2021

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/792
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	10.02.2021.
Time:	06:00 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	62.3	75
02	Near ETP	61.2	75
03	Near Bagas Section	65.4	75
04	Near Sugar Godown	61.3	75
05	Near Cane Yard	73.5	75

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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)

DATE: FEBRUARY 16, 2021

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WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/793
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	10.02.2021.
Time:	06:30 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	83.2	90
02	Turbine Section	84.8	90
03	Boiler Section	85.8	90
04	Mill Section	81.4	90
05	Pan Section	83.2	90

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

DATE: FEBRUARY 16, 2021

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LIME SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/798
Client:	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	10.02.2021.
Analysis Date:	11.02.2021
Sample Name:	Lime Sample

RESULTS

SR.NO.	TEST DESCRIPTION	RESULTS	UNIT
01	pH	12.4	--
02	Moisture Contain	23.65	%
03	Total Solid	55.21	%
04	Total Volatile Solid	8.90	%

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Level*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

DATE: FEBRUARY 16, 2021

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SOIL SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/799
Client:	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition:	In Operation.
Sampling Date:	10.02.2021.
Analysis Date:	11.02.2021
Sample Name:	Soil Sample

RESULTS

SR. NO.	TEST DESCRIPTION	RESULTS	UNIT
01	Nitrogen (N)	Kg/ha	156.23
02	Available Phosphorous (P)	Kg/ha	89.11
03	Available Potassium	Kg/ha	124.75
04	Organic Carbon	%	1.20
05	Organic Matter	%	2.06
06	Water Soluble Chloride (Cl)	mg/kg	178.45
07	Water Soluble Sulphate (SO_4)	mg/kg	159.67
08	Sodium Absorption Ratio	----------	0.051

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***

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DATE: MARCH 15, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/898
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	09:30 A.M.	
03	Ambient Temperature	29.0 ^{0}C	
04	Dry Bulb Temperature	29.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	33.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	64.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	19.05 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	26.88 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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

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DATE: MARCH 15, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/899
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	09:40 A.M.	
03	Ambient Temperature	29.0 ^{0}C	
04	Dry Bulb Temperature	29.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	33.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	62.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	18.30 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	21.97 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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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DATE: MARCH 15, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/900
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	09:50 A.M.	
03	Ambient Temperature	30.0 ^{0}C	
04	Dry Bulb Temperature	30.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	29.7 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	67.36 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	17.65 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	22.89 µg/cum	80 µg/cum

Note:

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- *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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DATE: MARCH 15, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/901
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021
Time :	10:20 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	170^0C (433 K)
06	Differential Pressure	1.00 mm Wg
07	Velocity	4.00 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	170255.67 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	52.83 mg/Nm^3
02	Sulphur Dioxide (SO_2)	30.71 mg/Nm^3
		125.49 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: MARCH 15, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/902
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021
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	175 ^{0}C (448 K)
06	Differential Pressure	1.00 mm Wg
07	Velocity	4.02 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	68105.89 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	34.83 mg/Nm^3
02	Sulphur Dioxide (SO_2)	22.47 mg/Nm^3
		36.73 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: MARCH 15, 2021

AMBIENT NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/903
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	10.03.2021.
Time:	01:00 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A)
01	Near Main Gate	65.1	75
02	Near ETP	61.2	75
03	Near Bagas Section	64.8	75
04	Near Sugar Godown	62.8	75
05	Near Cane Yard	71.2	75

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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

EQUINOX

Equinox Environments (India) Pvt. Ltd.

ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: MARCH 15, 2021

WORKZONE NOISE LEVEL MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/904
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Date of Sampling:	10.03.2021.
Time:	01:30 P.M.

RESULTS

SR. NO.	LOCATION	READINGS dB(A)	LIMIT dB(A) (Refer Note Below)
01	Centrifugal Section	81.3	90
02	Turbine Section	84.1	90
03	Boiler Section	82.7	90
04	Mill Section	86.4	90
05	Pan Section	82.9	90

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *The Factories' Act, 1948 has prescribed Noise Level threshold limit for 8 hours' exposure as 90 dB (A).*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

Annexure VIII
Photographs of CSR Activity

कारदगा येथे जवाहर कारखान्यातर्फे मदतीचा धनादेश सुपूर्द

वार्ताहर
कारदगा

कारदगा येथे २०१९-२० सालातील गळीत हंगामासाठी हुपरी येथील जवाहर साखर कारखान्याच्यावतीने ऊसतोड करण्यास आलेल्या मजुराचा दूधगंगा नदीत बुडून मृत्यू झाला होता. या मयत मजुराच्या वारसांना जवाहर कारखान्याचे चेअरमन कल्लाप्पाण्णा आवाडे, आमदार प्रकाश आवाडे यांनी एक लाख रुपयांचा मदत निधी उपलब्ध करुन दिला. या निधीचा धनादेश जवाहरचे माजी संचालक बाबासो नोरजे व ग्राम पंचायत माजी अध्यक्षा नंदिनी हेगडे यांच्या हस्ते वारसांकडे सुपूर्द करण्यात आला

बाबासो नोरजे म्हणाले, एप्रिल महिन्यात बीड जिल्ह्यातील प्रदीप बबन इनकर हा ऊसतोड मजूर कारदगा येथील दूधगंगा नदीत आंघोळीला गेला असता त्याचा पाण्यात बुडून मृत्यू झाला होता. जे मजूर व जनावरे अपघाताने मयत होतात त्यांच्या वारसांना आर्थिक सहाय्य देण्याची योजना जवाहर कारखान्याने सुरू केली असल्याचे त्यांनी सांगितले. कारखान्याचे कर्नाटक विभाग सिनियर ॲग्री हौशियेर ए. डी.चौगुले यांनीही मनोगत व्यक्त केले. यावेळी भोज सर्कलचे जयकुमार बेडकिहाळे, वाहन मालक अरुण मानगावे, भरत भागाजे, बाबासो मानगावे, विलास तायशेट्टी, बाबू तायापंनावर, रोहन शिरगुप्पे, बाबासो हेगडे आदी उपस्थित होते.

कारदगा : येथे जवाहर कारखान्याच्यावतीने मयत ऊसतोड मजुरांच्या वारसांना धनादेश देताना बाबासो नोरजे, नंदिनी हेगडे व इतर.

धली

ारंभ

ाळीत हंगामास

करराव भांदुर्गे,
प्रशांत पाटील,
राचय्या हिरेमठ,
लाप्पा चौगुला,
ेश कुलकर्णी,
या बेनचीनमर्डी,
ादी मान्यवर
ताविक भाषण
यांनी केले. तर
यांनी आभार

नको

ी कार्यक्रम

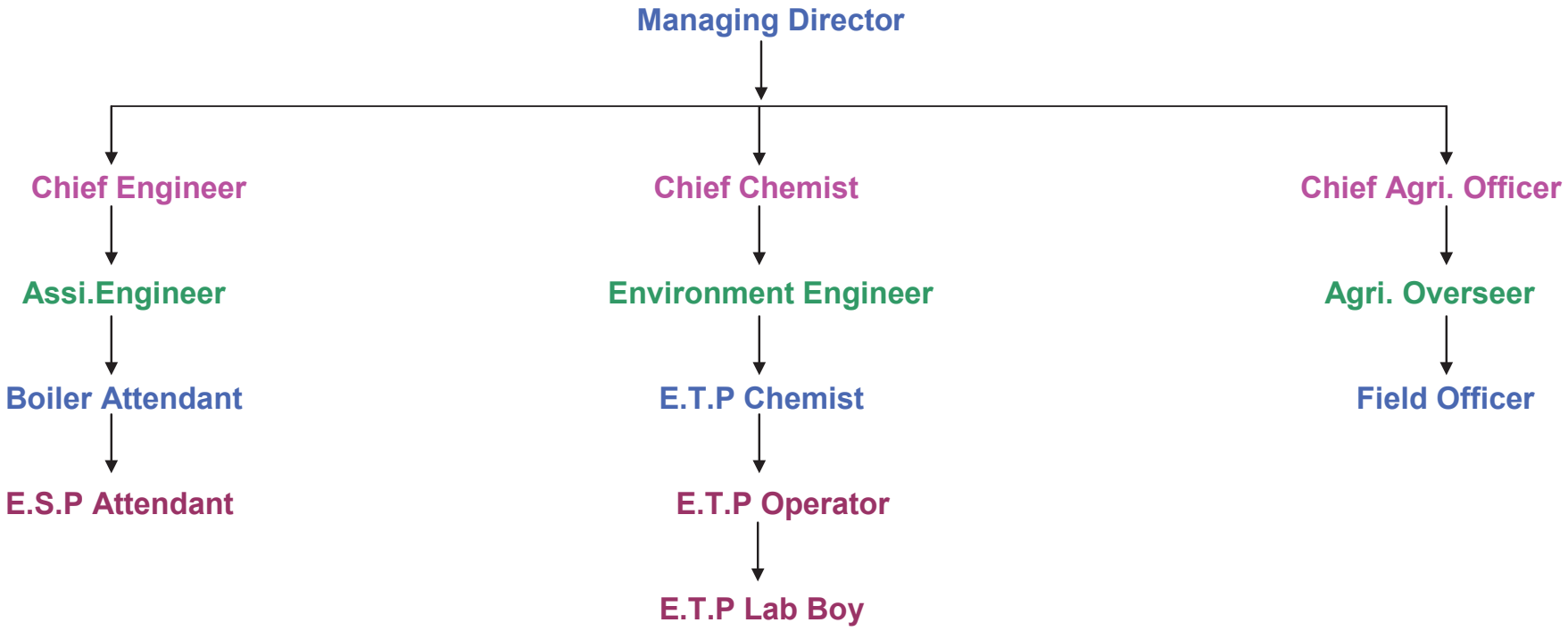

अनंतसिंग फोटो

Annexure IX
Details of EMC Cell

Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari

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

Environmental Management Cell



Annexure X
Six Monthly Compliance Report w.r.t. grant of EC

REGISTERED A. D.

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/7932 / 2020-21

Date: 24/11/2020

To,

The Regional Officer,
MoEFCC; Western Region (WCZ),
Ground Floor, East Wing,
New Secretariat Building,
Civil Lines,
Nagpur – 440 001.
Email – eccompliance-mh@gov.com

Sub : Submission of Six Monthly Compliance report for period April 2020 to September 2020. w.r.t Sugar Factory of 12000 TCD – **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari**, Located At- Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra.

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 Factory of 12000 TCD – **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,Hupari**, Located at 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 2020 to September 2020.

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

Gmail

Jawahar Sugar <kprjsssk@gmail.com>

Six Monthly Compliance Report April2020 - Sep 2020_ Sugar unit.pdf

Jawahar Sugar <kprjsssk@gmail.com> Tue, Nov 24, 2020 at 4:06 PM
To: eccompliance-mh@gov.in
Cc: mpcbmumbai@mpcb.gov.in, westzonecpcb@yahoo.com, rokolhapur <rokolhapur@mpcb.gov.in>

--
Dear sir

Please Find Attachment

From,
Jawahar S.S.S.K. Ltd. Hupari

Six Monthly Compliance Report April2020 - Sep 2020_ Sugar unit.pdf
8184K

Annexure XI
Environmental Statement

Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

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

Unique Application Number
MPCB-ENVIRONMENT_STATEMENT-0000025443

Submitted Date
04-09-2020

Company Information

Company Name
Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari

Application UAN number
MPCB-CONSENT-000009225

Address
Shri 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)
32573.00

Scale
L.S.I

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 Type
R12 Sugar (excluding Khandsari)

Last Environmental statement submitted online
yes

Consent Number
Format.1.0/CAC/UAN No.MPCB-CONSENT-0000092225/CR-2008001114

Consent Issue Date
28/08/2020

Consent Valid Upto
31/07/2021

Product Information

Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Sugar	211670	171615	MT/A

By-product Information

By Product Name	***Consent Quantity***	***Actual Quantity***	***UOM***
Molassess	58560	58955.760	MT/A
Press Mud	58560	46546.780	MT/A
Bagasse	429033	396283.820	MT/A
Electricity Generation	28.5	21.96	Mwh

1) Water Consumption in m3/day

Water Consumption for	***Consent Quantity in m3/day***	***Actual Quantity in m3/day***

Process	31.00	47.00
Cooling	100.00	110.00
Domestic	328.00	294.00
All others	0.00	0.00
Total	459.00	451.00

1) Effluent Generation in CMD / MLD

Particulars	***Consent Quantity***	***Actual Quantity***	***UOM***
Industrial	1200	774	CMD
Domestic	50	45	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	0.038	0.111	KL/A

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

Name of Raw Materials	***During the Previous financial Year***	***During the current Financial year***	***UOM***
Sugarcane	7.678	8.3716	Ton/Ton
Lime	0.009	0.01082	Ton/Ton
O.P.Acid	0.000027	0.000026	Ton/Ton
Sulphur	0.0026	0.003512	Ton/Ton
Caustic Soda	0.000029	0.0000344	Ton/Ton
Phosphoric acid	0.000000	0.000000	Ton/Ton
Grease	0.000058	0.0000734	Ton/Ton
Bagasse for co-gen	1.159	1.3298	Ton/Ton
Oil	0.00021	0.00024	Ton/Ton

4) Fuel Consumption

Fuel Name	***Consent quantity***	***Actual Quantity***	***UOM***
Bagasse	269376.000	228175.019	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***		
	Quantity	***Concentration***	***%variation***	***Standard***	***Reason***
COD	0.00007214	72.14	28.85	250	00
BOD	0.00002080	20.80	8.32	100	00
TSS	0.00001830	18.30	7.32	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***		
	Quantity	***Concentration***	***%variation***	***Standard***	***Reason***

SO2 - Boiler Stack 1	2.01	52.90	35.26	150	00
SPM- Boiler Stack 1	2.38	62.83	41.88	150	00
SO2- Boiler Stack 2	1.20	45.02	30.01	150	00
SPM- Boiler Stack 2	1.54	58.33	38.88	150	00

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	1.681	1.59	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	00	00	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	00	00	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Boiler Ash	3944.00	3423.00	MT/A
ETP Sludge	307.63	345.60	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	1.168	1.59	MT/A

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

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	1.59	MT/A	Concentration in liquid form

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Boiler Ash	3423.00	MT/A	Solid
ETP Sludge	345.60	MT/A	Solid

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)
--	--	--	--	--	--	--

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

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Effluent Treatment Plant	ETP modification purpose	0.72
Green Belt Development	Existing tree plantation done at factory site 62254no. of trees. We have 254 tree plantation done in the financial year	28.48

[B] Investment Proposed for next Year

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

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 62254 no. of trees are planted in and around the karkhana area. In that 99% 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

Annexure XII
Newspaper Advertisement w.r.t. grant of EC

BENNETT, COLEMAN & CO. LTD. | ESTABLISHED 1838 | VOL. VIII NO. 285 KOLHAPUR | SATURDAY, DECEMBER 5, 2020 | PAGES 20 | PRICE ₹4

THE TIMES OF INDIA

To advertise with us, call 1800 120 5474 | To order your copy, call 1800 120 0004 toll free or visit- subscribe.timesgroup.com

INDIA'S LARGEST ENGLISH NEWSPAPER

JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

Shri Kallappanna Awadenagar, Hupari-Yalgud, 416203, Tal. Hatkanangale, Dist. Kolhapur.
Phone. (0230)2450402 (5 Lines), E-mail. - kprjsssk@gmail.com

Jawahar Sugar Factory Hupari has granted the Environmental Clearance

It is for the information of all concern that, M/S. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari has submitted the proposal of proposed expansion of 12000 TCD to 16000 TCD capacity for obtaining the Environmental Clearance from Ministry of Environment, Forest and Climate Change, Government of India, New Delhi. Accordingly, Ministry of Environment has granted the Environmental Clearance for expansion of our Sugar Unit 12000 TCD to 16000 TCD. Vide their letter F.No.IA-J-11011/146/2020-IA II (I), Dated 1st December, 2020. A copy of said clearance letter is available with the State Pollution Control Board/Committee and may also be seen at website of the Ministry and at https://parivesh.nic.in/

तरुण भारत

कोल्हापूर

www.tarunbharat.com

शनिवार दि. ५ डिसेंबर २०

बेळगाव • गोवा • मुं

जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी

श्री.कल्लाप्पाण्णा आवाडेनगर, हुपरी-यळगूड - ४१६२०३,
ता.हातकणंगले, जि.कोल्हापूर (महाराष्ट्र)

फोन नं. (०२३०)२४५०४०२ (५ लाईन्स), E-mail : kprjsssk@gmail.com

जवाहर कारखान्यास इन्व्हीरॉनमेंटल क्लिअरन्स प्राप्त

जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी या कारखान्याने प्रस्तुतच्या ऊस गाळप क्षमतेचे प्रतिदिन १२००० मे.टनावरुन प्रतिदिन १६००० मे.टनापर्यंत विस्तारीकरण करण्यास मंजुरी घेणेकरिता पर्यावरण, वने व जल वायु परिवर्तन मंत्रालय, भारत सरकार, नवी दिल्ली यांचेकडे प्रस्ताव दाखल केलेला होता. त्यास अनुसरुन भारत सरकारचे पर्यावरण मंत्रालयाकडून कारखान्यास पत्र क्र. F.No.IA-J-11011/146/2020-IA II (I) दिनांक ०१ डिसेंबर, २०२० अन्वये इन्व्हीरॉनमेंटल क्लिरन्स मिळालेला आहे. सदरचा इन्व्हीरॉनमेंटल क्लिरन्स महाराष्ट्र प्रदुषण नियंत्रण मंडळ / समिती आणि पर्यावरण मंत्रालयाचे वेबसाईटवर व https://parivesh.nic.in/ वर पहाण्यासाठी उपलब्ध आहे. प्रसिद्धीकरिता जाहीर नोटीस.

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 / 1268 /2020-2021 Date: -13 /05/2021

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

Sub: Submission of Six Monthly Environment Compliance report for period October 2020 to March 2021w.r.t Co-gen Unit of 28.5 MW – **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari.** Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra State.

Ref: Environmental Clearance (EC) Letter No. ENV (NOC) 2005/1591/CR224/TC-II dated 27.08.2007.

Dear Sir,

This has reference to Environmental Clearance (EC) granted to our Co-gen Unit of 28.5 MW– **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,Hupari** Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra State.

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

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

Thanking you,

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

(M.G.Joshi)
Managing Director

Encl. - As above

Copy for information to:-

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

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

3. Regional Officer,
   Maharashtra Pollution Control Board,
   Udyog Bhavan Building,
   Naer Collector Office,
   Kolhapur- 416 002.
   Email –rokolhapur@mpcb.gov.com

Enclosure – I

EC Letter

GOVERNMENT OF MAHARASHTRA

☎ 2285 50 82
🖷 2202 59 46

No.ENV(NOC)2005/1591/CR224/TC-II
ENVIRONMENT DEPARTMENT,
Mantralaya, New Administrative Bldg.,
15th floor, Madam Cama Marg,
MUMBAI - 400 032.

Dated : 27 AUG 2007

To,

The Chairman /Managing Director,
M/s. Jawahar Shetkari Sahakari Sakhar Kharkhana Ltd.,
Kallapanna Awade Nagar,
Hupri Yalgud Road,
Dist. Kolhapur

Sub : Environment clearance.

Sir,

I am directed to refer to your letter dated 11th October,2006, on the subject mentioned above and to state that the Environment Department of the State Government has no objection from the environmental angle to permit you expansion of sugarcane crushing capacity from 5000 TCD to 7500 TCD (from Five Thousand TCD to Seven Thousand Five Hundred TCD only) and Co-Generation from 24 MW to 28.5 MW at, Kallapanna Awade Nagar, Hupri Yalgud Road] Dist. Kolhapur, Maharashtra State subject to the following conditions & general conditions stipulated in the Annexure.

These stipulations will be enforced among others under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 alongwith their amendments.

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

Yours faithfully,

(Surendra Jadhav)
Deputy Secretary to Government

ENCL : As above.

JAWAHAR SSSK LTD.. HUPARI
I/W No. 2297 Date 1/9/07
Sent To MD
c/o ADM, Chemical Engg, CHE,
Secretary / Managing Director.

1. The Project Authority shall take adequate safety precautions in handling the raw materials, plant and machinery and the products of the processes so as to avoid any damage / less of lie of property, or environment.

2. The Project Authority shall provide personal protective equipments, impart training and medical facilities to the workers handling the hazardous / dangerous raw materials, finished products or processes.

3. The Project Authority shall prepare the on-site disaster management plan and should submit to the Director, Industrial Safety and Health. The copies of which shall also be submitted to the District Collector, Local Authority, Maharashtra Pollution Control Board (MPCB) and the Environment Department, Government of Maharashtra. The Project Authority shall submit the information to the Director, Industrial Safety and Health for the preparation of the off-site disaster management plan. The Project Authority should carry out periodical rehearsal of the on-site disaster management plan.

4. The Project Authority shall comply with all statutory requirements for safe transportation of raw materials / finished products in case of trucks / tankers carrying hazardous raw material shall be washed and cleaned up within the plant premises, so as to ensure no pollution in the vicinity.

5. The Project Authority shall use cleaner technology for the manufacturing process and the clean fuel for the operations so as to reduce process waste, liquid effluents and gaseous emissions.

6. The Project Authority shall treat the liquid effluents so as to confirm to the standards prescribed by MPCB. The disposal of the treated effluent shall be in accordance with the conditions imposed by MPCB / GOM (Government of Maharashtra / Government of India). The continuous monitoring facility for the effluents should be provided by the project authority. If the effluent quality exceeds the standards at any time the corresponding units of the plant which are contributing the excessive pollutant load shall be stopped from the operations till the quality of pollutant discharged from those units are brought down to the required level. Under no circumstances, the quality of the effluent shall exceed the limits mentioned in the consent letter. The Project Authority should draw water consumption plans and the time bound sincere efforts for the reduction of water consumption should be made.

7. In case the treated effluent is proposed to the utilized for land irrigation / gardening on the land owned by the Project Authority, the sufficient area should be earmarked for the same purpose in consultation with the Agriculture Department. Under no circumstances, such an effluent should be allowed to flow outside the premises of the project. During Monsoon on heavy rainfall period, if the treated effluent can not be absorbed in the project land and there is likelihood of the effluent going into the nearby areas, the respective unit should be put out of operation immediately. For the purpose of effluent disposal, mechanical system (Sprinkler etc.)and shall make adequate arrangements for the storage of excessive effluent (impervious storage tank etc.)in consultation with MPCB.

8. The Project Authority shall regularly and periodically undertake soil testing of the land which are being used for the disposal of the effluent and shall also undertake periodical and regular testing of water sources in the vicinity of the project.

9. The Project Authority shall control the air emissions as per the standards prescribed by MPCB. No change in the design of stack and fuel mix be done without the permission of MPCB. Minimum number of air quality monitoring

stations should be set up in consultation with MPCB in the plant and nearby areas. The air quality should be monitored on regular basis. All the stacks of the plant should be provided with the continuous stack monitoring equipment and the stack emission levels shall be recorded and submitted to the MPCB as per their directives.

10. The process emissions shall meet the standards prescribed by MPCB. At no time, the emissions should be beyond the standards. The respective units which exceed the standard should be put out of order immediately and should not be restarted until the control systems are rectified.

11. The solid waste shall be treated and disposed off as prescribed in the authorization certificate granted by MPCB in accordance with the Hazardous Waste (Handling and Management) Rules, 1989 (wherever applicable).

12. The Project Authority shall take precautions so as to reduce other types of environmental problems like noise, odour, thermal / heat and radio activity etc. (if applicable).

13. The Project Authority shall set up environment management cell with a suitably qualified staff, to carry out various functions of the environment management. The Environment Management Plan should be prepared by the project authority shall also earmarked submitted to MPCB. The Project Authority shall also earmarked funds for the Environment Management Cell and same shall not be diverted for any other purpose. The Project Authority shall prepare environment statement every year and copy of the same should be submitted to the MPCB.

14. The cases of any disaster / accident / mishap due to handling raw materials, process, plant and machinery or finished products, the Project Authority shall be personally, jointly and severally be responsible for the event.

15. Tree plantation programs should be undertaken at the rate of not less than 2500 trees per ha.on the factory land, in consultation with the Forest Department of the State Government and MPCB.

16. This environment clearance is not transferable and shall lapse after a period of 2 years from the date on which the clearance is given, unless the intended development is commenced before the expiry of the period.

17. The Project Authority must strictly adhers to the stipulations made by MPCB / Government of Maharashtra / Government of India. The Project Authority shall submit the compliance report regarding conditions imposed by MPCB / Government of Maharashtra (Environment Department) / Government of India before commencement of production / activity.

18. The Company should used a treated effluent for afforestation and create a green belt around the factory premises with necessary fencing around it.

****

Point wise Compliance towards Condition in Environment Clearance Letter

Brief Summary of the Project

1	Name of Project	:	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., (JSSSKL), Hupari**
2.	Clearance Letter No. & date	:	vide letter no. ENV (NOC) 2005/1591/CR224/TC-II, dated 27th August 2007
3.	Location: District & State/UT	:	Dist.: Kolhapur. State: Maharashtra.
4.	Address for Correspondence	:	Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, Maharashtra 416 203.
5.	Six Monthly Compliance for Period		October 2020 to March 2021

M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd; Hupari (JSSSKL) is an Integrated Project Complex of Sugar (12,000 TCD) & Co-gen (28.5 MW) located at Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra State. JSSSKL was established in 1990 under. The Maharashtra Co-operative Society Act 1960.Sugar factory is registered with Govt. Of Maharashtra, Vide Certificate No. KPR/HLE/PRG (A)/30(S)/29-JAN-1990. In addition, it has been registered as Multi-State Co-operative Society Vide registration no. MSCS/CR-51/30-DEC-1994. First crushing season of Sugar Factory was undertaken in the year 1993-94. Environmental Clearance (EC) was Granted to 7,500 TCD Sugar and 28.5 Co-gen by Maharashtra Government vide letter no. ENV (NOC) 2005/1591/CR224/TC-II, dated 27th August 2007. **Copy of EC Enclosed at Enclosure-I.**

Six monthly (Period October 2020 to March 2021) Compliance report for Co-gen Unit of Capacity 28.5 by M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. (JSSSKL), Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal. Hatkanangale, Dist.: Kolhapur, Maharashtra 416203.

Compliance of Specific and General Conditions mentioned in Environmental Clearance (EC) letter ENV (NOC) 2005/1591/CR224/TC-II, dated 27th August 2007 for period from October 2020 to March 2021 presented as follows-

Sr. No	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
1	**Condition No.1** The Project Authority shall take adequate safety precautions in handling the raw materials, plant and machinery and the products of the processes so as to avoid any damage / less of lie of property or environment.	Condition is being followed. Adequate safety measures for handling the raw material, plant and machinery are taken. Raw material used for Co-gen is bagasse, generated from own sugar factory. 65,520 MT/M of bagasse is used for generation of electricity. Bagasse is

		transported to boiler through close conveyor belt. A Risk Assessment Report have been prepared for project complex. Therein, identified of hazard and mitigation measures has been suggested. Moreover, the fire hazard areas like bagasse storage yard, switchyard etc. have been provided with appropriate firefighting arrangements. Boiler interlock details is enclosed at **Annexure-I**
2	**Condition No.2** The Project Authority shall provide personal protective equipments; impart training and medical facilities to the workers handling the hazardous / dangerous raw materials, finished products or processes.	The workers engaged in handling operations are provided with necessary Personal Protective Equipment's (PPEs) like safety helmet, shoes, goggles, face mask, dust mask, hand gloves, welder goggles, earmuffs, safety belts etc. Regular training is important for workers who are handling the hazardous / dangerous raw materials, finished products or processes etc. Moreover, annual health checkup of all workers is done through authorized and qualified doctor and records are maintained. Health checkup report is enclosed at **Annexure-II** .
3	**Condition No.3** The Project Authority shall prepare the on-site disaster management plan and should submit to the Director, Industrial Safety and Health. The copies of which shall also be submitted to the District Collector, Local Authority, Maharashtra Pollution Control Board (MPCB) and the Environment Department, Government of Maharashtra. The Project Authority shall submit the information to the Director, Industrial Safety and Health for preparation of the off-site disaster management plan. The Project Authority should carry out periodical rehearsal of the on-site disaster management plan.	As mentioned above a Risk Assessment Report have already prepared for entire project complex. Therein, identification of hazard and migration measures have been suggested. Moreover, the fire hazard areas like bagasse storage yard, switchyard etc. have been provided with appropriate firefighting arrangement. Periodic mock drills are conducted for imparting training on handling hazardous situations and handling of firefighting equipments.
4	**Condition No.4** The Project Authority shall comply with all statutory requirements for safe transportation of raw materials / finished products in case of trucks / tankers carrying hazardous raw material shall be washed and cleaned up	Not applicable. Since electricity generated is directly fed to MSEB grid.

	within the plant premises, so as to ensure no pollution in the vicinity.	
5	**Condition No.5** The Project Authority shall be use cleaner technology for the manufacturing process and the clean fuel for the operations so as to reduce process waste, liquid effluents and gaseous emissions.	In Co-gen plant electricity is generated using bagasse as fuel for steam generation. Bagasse is a renewable source of energy.
6	**Condition No.6** The Project Authority shall treat the liquid effluents so as to confirm to the standards prescribed by MPCB. The disposal of the treated effluent shall be in accordance with the conditions imposed by MPCB / GOM (Government of Maharashtra / Government of India). The continuous monitoring facility for the effluent should be provided by the project authority. If the effluent quality exceeds the standards at any time, the corresponding units of the plant which are contributing the excessive pollutant load shall be stopped from the operations till the quality of pollutant discharged from those units are brought down to the required level. Under no circumstances, the quality of the effluent shall exceed the limits mentioned in the consent letter. The Project Authority should draw water consumption plans and the time bound sincere efforts for the reductions of water consumption should be made.	Effluent generated from Co-gen plant operation mainly comprise of boiler blow downs- 150 CMD and DM backwash -10 CMD. This entire effluent is forwarded to Sugar ETP.
7	**Condition No7** In case of the treated effluent is proposed to the utilized for land irrigation / gardening on the land owned by the project Authority, the sufficient area should be earmarked for the same purpose in consultation with the Agriculture Department. Under no circumstances, such an effluent should be allowed to flow outside the premises of the project. During Monsoon on heavy rainfall period, if the treated effluent cannot be absorbed in the project land and there is likelihood of the effluent going into the nearby areas, the respective unit should be put out of operation immediately. For the purpose of effluent disposal, mechanical system	No effluent is discharge outside industrial premises. The treated effluent is being recycled and use for gardening in premises. Online monitoring system as well as flow meter already provided for ETP. ETP monitoring reports are attached is enclosed at **Annexure-III.**

	(Sprinkler etc.) and shall make adequate arrangements for the storage of excessive effluent (impervious storage tank etc.) in consultation with MPCB.	
8	**Condition No.8** The Project Authority shall regularly and periodically undertake soil testing of land which are being used for the disposal of the effluent and shall also undertake periodical and regular testing of water sources in the vicinity of the project.	Industry regularly conducts soil testing by approved laboratory of nearby farmers where treated effluent is used for irrigation.
9	**Condition No.9** The Project Authority shall control the air emissions as per the standards prescribed by MPCB. No change in the design of stack and fuel mix be done without the permission of MPCB. Minimum number of air quality monitoring stations should be set up in consultation with MPCB in the plant and nearby areas. The air quality should be monitored on regular basis. All the stacks of the plant should be provided with the continuous stack monitoring equipment and stack emission levels shall be recorded and submitted to the MPCB as per their directives.	ESP have been installed to Co-gen boiler of 20, 90& 75 TPH followed by stack of 75M& 72 M height. As per latest guidelines of CPCB, online monitoring system have been installed for Co-gen boiler stack. Therein, parameter like SPM is monitored continuously. Moreover, industry conducts self-monitoring w.r.t. Ambient Air, Stack Emissions, Noise as well as analysis of untreated and treated effluent on monthly basis. The same is done through an approved laboratory. The AAQ locations are selected in upwind and downwind directions. The report of the same are enclosed at **Annexure- IV.**
10	**Condition No.10** The process emissions shall meet the standards prescribed by MPCB. At no time, the emissions should be beyond the standards. The respective units which exceed the standard should be put out of order immediately and should not be restarted until the control systems are rectified.	The condition has been followed.
11	**Condition No.11** The solid waste shall be treated and disposed off as prescribed in the authorization certificate granted by MPCB in accordance with the Hazardous Waste (Handling and Management) Rules, 1989 (Wherever applicable).	No hazardous waste is generate in Co-gen plant. Solids waste in form of boiler ash is generated and the same is given to farmers for use as manure. Also, given to brick manufacturer.
12	**Condition No. 12** The project Authority shall take precautions so as to reduce other types of environment problems like noise, odour, thermal/heat and radio activity etc. (if applicable).	Major noise generating source are Boiler, Turbine, D.G. Set etc. The overall noise level in the around the plant area are maintained within the standards prescribed under

		Environment (Protection) Act, 1986 Rules. Workers working in noisy area are provided with personal protective equipment's such as earplug, earmuffs etc. No any radioactive substances are used in Co-gen plant.
13	**Condition No. 13** The Project Authority shall set up environment management cell with a suitably qualified staff, to carry out various functions of the environment management. The Environment Management Plan should be prepared by the project authority shall also earmarked submitted to MPCB. The project Authority shall also earmarked funds for the Environment Management Cell and same shall not be diverted for any other purpose. The Project Authority shall prepare environment statement every year and copy of the same should be submitted to the MPCB.	The industry has an Environmental Management Cell (EMC) functioning. Members of the EMC are well qualified and experienced in their concerned fields. Structure of EMC is enclosed at **Annexure – V.**
14	**Condition No. 14** The cases of any disaster/accident/mishap due to handling raw materials, process, plant and machinery or finished products, the Project Authority shall be personally, jointly and severally be responsible for the event.	Noted.
15	**Condition No. 15** Tree plantation programs should be undertaken at the rate of not less than 2500 trees per ha on the factory land, in consultation with the Forest Department of the state Government and MPCB.	Total 62,279 Nos. of trees have been planted in the factory premises. Out of the total plot of 246 Acres (99.55 Ha.), 83.20 Acres (34.00 Ha.) area comes under Greenbelt. This comes to about 34% of total plot area. Details and Photographs of Green belt is enclosed at **Annexure VI.**
16	**Condition No. 16** This environment clearance is not transferable and shall lapse after a period of 2 years from the date on which the clearance is given, unless the intended development is commenced before the expiry of the period.	The Condition is been followed by industry.
17	**Condition No. 17** The Project Authority must strictly adhere to the stipulations made by MPCB/ Government of Maharashtra/ Government of India. The Project Authority shall submit the compliance report regarding conditions imposed by MPCB/ Government of Maharashtra	Compliance towards above conditions have been strictly followed.

	(Environment Department)/ Government of India before commencement of production/activity.	
18	**Condition No. 18** The Company should used a treated effluent for afforestation and create a green belt around the factory premises with necessary fencing around it.	Treated effluent is used for gardening purpose in the industrial premises.

Annexure – I

Boiler Interlock Details

Boiler Interlock

Fuel Handling System:

1. Main bagasse carrier tripped, previous carriers RBC belts tripped.
2. Pull cord & belt SWA switch provided for emergency operation.

Ash Handling System :

1. Ash conditioner tripped. Ash conveying system tripped.

FAN Interlock System :

1. ID Fan stopped or tripped then FD fan, SA fan and fuel handling system are tripped.
2. FD Fan stopped or tripped then SA Fan and fuel handling system are tripped.
3. SA Fan stopped or tripped the fuel handlings system are tripped.

Drum Level Interlock:

1. Drum level greater than 80% or less than 20% FD Fan tripped.

Bagasse Feeder Interlocks:

1. SA Fan air pressure for fuel feeding less than 250mmWc or both SA fan stopped or tripped.

Feed Pump Interlock:

1. Deareator level less than 30% or suction pressure less than 1 Kg/cm^2 or suction valve close. All any above conditions or any one of above conditions occur then feed pump tripped.

ESP Interlock System :

1. Purge air blower stopped or tripped or ESP inlet flue gas temperature less than 130°C or ESP hopper level hi hi alarm then ESP TRCC tripped.

Boiler Alarm

1. Fuel feeding air pressure for bagasse less than 350mmWc.
2. ESP inlet Temperature less than140°C.
3. Main steam pressure less than 40 Kg/cm^2.
4. Main steam Temperature less than 400°C.
5. Deareator level less than 50%.
6. Deareator level greater than 90%.
7. Deaerator temperature less than 105°C.
8. Deareator temperature greater than 110°C.

Turbine Tripping Interlock:

1. Lube oil pressure less than 1.8 kg/cm^2.
2. Control oil pressure less than 7.8 kg/cm^2.
3. Turbine inlet pressure less than 38 kg/cm^2.
4. Turbine inlet temperature less than 350°C.
5. Exhaust pressure greater than 1.45 kg/cm^2.

Vibration Alarm and Trip Condition (Turbine, Gearbox and Alternator) :

Sr. No.	TAG	Service Name	Alarm H	Trip HH	Alarm L	Alarm LL
1.	ZI-801	Axial Displacement	0.4mm	0.6mm	0.4mm	0.6mm
2.	ZI-802	Axial Displacement	0.4mm	0.6mm	0.4mm	0.6mm
3.	ZI-801	Turbine front bearing vibration X-axis	76 µ	99 µ		
4.	ZI-802	Turbine front bearing vibration Y-axis	76 µ	99 µ		
5.	ZI-803	Turbine rear bearing vibration X-axis	76 µ	99 µ		
6.	ZI-804	Turbine rear bearing vibration Y-axis	76 µ	99 µ		
7.	ZI-805	GB High speed DE vibration X-axis.	65 µ	125 µ		
8.	ZI-806	GB High speed DE vibration Y-axis.	65 µ	125 µ		
9.	ZI-807	GB High speed NDE vibration X-axis.	65 µ	125 µ		
10.	ZI-808	GB High speed NDE vibration Y-axis.	65 µ	125 µ		
11.	ZI-809	GB Low speed NDE vibration X-axis.	90 µ	150 µ		
12.	ZI-810	GB Low speed NDE vibration Y-axis.	90 µ	150 µ		
13.	ZI-811	GB Low speed DE vibration X-axis.	90 µ	150 µ		
14.	ZI-812	GB Low speed DE vibration Y-axis.	90 µ	150 µ		
15.	ZI-813	Alternator front vibration X-axis.	178 µ	232 µ		
16.	ZI-814	Alternator front vibration Y-axis.	178 µ	232 µ		
17.	ZI-816	Alternator rear vibration X-axis.	178 µ	232 µ		
18.	ZI-817	Alternator rear vibration Y-axis.	178 µ	232 µ		
19.	--	Exciter field volt	200 V	200 V		
20.	--	Exciter field current	25 A	25 A		

Bearing Temperature, Alarm and Trip Condition (Turbine, Gearbox) :

Sr. No.	SESOR	ALARM	TRIP
1.	Turbine thrust active top bearing temperature.	95°C	120°C
2.	Turbine thrust non active top bearing temperature.	95°C	120°C
3.	Turbine front bearing temperature.	110°C	120°C
4.	Turbine rear bearing temperature.	110°C	120°C
5.	Turbine active bearing bottom temperature.	95°C	120°C
6.	Turbine non active bearing bottom temperature.	95°C	120°C
7.	Gearbox high speed front bearing temperature.	100°C	120°C
8.	Gearbox high speed rear bearing temperature.	100°C	120°C
9.	Gearbox low speed front bearing temperature.	85°C	120°C
10.	Gearbox low speed rear bearing temperature.	85°C	120°C

Bearing Gear Motor Interlock System:

1. Lube oil pressure greater than 1.95 kg/cm^2 then barring gear motor start permissive.
2. Turbine RPM less than 250 RPM then barring gear motor start permissive.

Annexure– II

Health Check Up Reports

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

pany Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wor	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
0437	MR. MALLAPPA D KHADAKE	55	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1718	MR. SANJAY A CHAWARE	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1761	MR. AMOL D HANWADE	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1950	MR. SANJAY R PATIL	43	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0656	MR. BHIMRAO D KHOT	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1849	MR. RAJENDRA R HAWALDAR	58	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1767	MR. JIVANDHAR V KAMBLE	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0499	MR. KRISHNAT S MORE	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0755	MR. VIJAY R DANGARE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0623	MR. SHIVAJI K KOLI	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1639	MR. SHITAL A MALI	40	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1720	MR. NITIN B SHINTRE	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7262	MR. ROHIT S PATIL	28	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1507	MR. SUNIL M KESARKAR	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1556	MR. RAMESH D PATIL	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1548	MR. ANANDA R MAGDUM	47	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0396	MR. UDAY A AINEPURE	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1278	MR. UMESH B MANE	44	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1847	MR. PRAVIN B VATHARE	41	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम १०(२) प्रमाणे
कोल्हापूर जिल्हाकरिता
प्राधिकृत प्रमाणकशल्यचिकित्सक
क्र. ACS 15-AM/2016

DR. ARVIND A. MANE
M.B.B.S. D.P.H.A.F.I.H. (MUMBAI)
MMC REGD. NO. : 2010/10/3170
GOVT. OF INDIA-GDFASLI REGD. NO.-02388
Consultant Industrial Health Physician

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

panv Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
1426	MR. SURESH S KORVI	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1439	MR. SANJAY S BANNE	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0968	MR. RAJENDRA D KORADE	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1815	MR. RAMDAS K DAGADE	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7035	MR. SHITAL M AKKIVATE	29	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1023	MR. RAMCHANDRA GHORPALE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2147	MR. VIJAY S MANE	40	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7031	MR. RAHUL S HANBHAR	26	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1050	MR. NARSU K MORE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7111	MR. PRAKASH V PUJARI	24	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1031	MR. SUNIL M KAMBLE	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2212	MR. MAHENDRA L HARUGADE	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1592	MR. VASANT D KAGALE	57	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0233	MR. TATYASO K SHIRPUSE	58	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7006	MR. SURAJ D PATIL	29	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1073	MR. MAHADEV G HEGADE	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
6027	MR. RAMESH R AWATE	30	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0853	MR. IQBAL A ATTAR	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0168	MR. IMTIAZ BHADGAONKAR	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम १०(२) प्रमाणे
कोल्हापूर जिल्हाकरिता
प्राधिकृत प्रमाणकआरोग्यविकिरसाक

Dr. ARVIND A. MANE
M.B.B.S, DPM.A.F.I.H. (Mumbai)
MMC REGD. NO. : 2010/10/3176
GOVT. OF INDIA-GDFASLI REGD. NO.-02380
Consultant Industrial Health Physician

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

pany Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
0650	MR. MAYAPPA L MUDALE	55	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1404	MR. DHANAJIRAO S SHINDE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1631	MR. BHARAT B SALOKHE	48	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1331	MR. SANJAY A GAT	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2001	MR. DADASO A PATIL	34	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0001	MR. MANOHAR G JOSHI	58	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1667	MR. SACHIN A PATIL	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7226	MR. RAMCHANDRA B KOLI	27	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0242	MR. NITIN B BHOSALE	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1314	MR. KUMAR B KHUL	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1437	MR. SADIK I MUJAWAR	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0668	MR. ASHOK V DESAI	57	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7257	MR. VISHAL J KAMBLE	25	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0994	MR. LAXMAN S LALI	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1223	MR. BALASO K KAMBLE	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1954	MR. RAHUL V MUDRALE	43	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1198	MR. SAMEER H KOTWAL	44	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1868	MR. BALASO A SANADI	53	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1597	MR. SUBHASH J AMTE	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

Dr. ARVIND A. MANE
M.B.B.S., D.P.H.A.F.I.H. (Mumbai)
MMC REGD. NO. : 2010/10/3176
GOVT. OF INDIA-CDFASLI REGD. NO.-02305
Consultant Industrial Health Physician

कोल्हापूर जिल्हाकरिता
अधिकृत प्रमाणित औद्योगिक चिकित्सक

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

pany Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 wit signature of Certifying Surgeon	If Certificate of unfitness or suspention issued to worker	Signature with gate certifying surgeon.
6004	MR. BHARAT J CHOUGULE	43	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1958	MR. PRASHANT S PATIL	35	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0992	MR. BABURAO A KAMATE	53	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1607	MR. KAKASO S TIKUTE	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7345	MR. MARUTI S MANE	37	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0245	MR. BALASO D SASANE	55	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0910	MR. RAJENDRA A GANGAI	48	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1262	MR. NISHIKANT N PATIL	40	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2143	MR. PRASHANT V CHAKOTE	38	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7108	MR. AMOL S DESHMANE	24	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2169	MR. ANIL R CHOUGULE	43	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7214	MR. ROHIT R PATIL	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1986	MR. FARUKH S SANADI	33	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7441	MR. PRAVIN R DANDAGE	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2213	MR. PADMAKAR B PATIL	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0953	MR. RAJENDRA A LATTIMARDI	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1009	MR. MADHUKAR M MALI	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2133	MR. AVINASH P PATANKAR	27	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0625	MR. SAGAR R PATIL	46	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

Dr. ARVIND A. MANE
M.B.B.S. D.P.H.A.F.I.H. (MUMBAI)
MMC REGD. NO. : 2010/10/3176
ASOCIATION OF INDIA-GOFASLI REGD. NO.-02388
Consulting Industrial Health Physician

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

HEALTH REGISTER

From: 02/09/2020 To 01/09/2021

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

pany Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
1018	MR. BAPUSO B GHONGADE	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1348	MR. RAMESH S WADD	47	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1692	MR. MUSTAK A NAYANI	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7310	MR. DIPAK V PARIT	21	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1680	MR. BABASO S DHAINGADE	40	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1897	MR. AMOL G HANDE	39	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1411	MR. JITENDRA B PATIL	49	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7238	MR. ANURAJ V YADAV	24	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7181	MR. TOUSIF H MUJAWAR	28	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7003	MR. SACHIN M AKURDE	28	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1395	MR. ADINATH P KUMBHAR	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1022	MR. KIRAN S DHALGAVE	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1547	MR. KRUSHNATH GOUD	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1833	MR. SURESH M SULKUDE	42	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
2040	MR. SWAPNIL B CHOUGULE	34	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1503	MR. KIRAN S KURNE	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0092	MR. LAXMAN K CHOUGULE	55	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7021	MR. AJIT A PATIL	25	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1860	MR. DURGADAS N KUMBHAR	41	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

भारतीय अधिनियम १९४८ या कलम १०(२) प्रमाणे
कोल्हापूर जिल्हाकरिता
प्राधिकृत प्रमाणकशल्यचिकित्सक

Dr. ARVIND A. MANE
M.B.B.S., D.P.H.A.F.I.H. (MUMBAI)
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From: 02/09/2020 To 01/09/2021

Certifying Surgeon
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any Name : JAWAHAR SHETKARI SAHAKARI KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	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 suspention issued to worker	Signature with gate certifying surgeon.
0091	MR. SHAILESHKUMAR VELLA	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7034	MR. HARSHAL D PATIL	24	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7317	MR. SAURABH HANABARHADDI	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
6227	MR. GAIBI H HAJARI	59	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0303	MR. PANDURANG G PATIL	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1549	MR. PRAKASH K PAWAR	52	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1861	MR. AJIT A PATIL	45	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1568	MR. SHRIKANT V PATIL	50	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7430	MR. SUSHANT B MALLIWADE	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7434	MR. VIJAY V BHOSALE	20	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7344	MR. SAGAR S AAIVALE	23	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7376	MR. SHITAL S PATIL	21	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
7019	MR. BALASO B KOLAJ	35	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1773	MR. SUDHAKAR S KOIK	41	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0906	MR. VIKRAM D JADHAV	51	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
1941	MR. KIRAN D KOLI	44	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0996	MR. RAKESH D MALI	47	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
-	MR. RAHUL BHADURWADE	27	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	
0302	MR. ASHOK A PATIL	56	M	-	NA	NA			02/09/2020	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम १०(२) प्रमाणे
कोल्हापूर जिल्हाकरिता
प्राधिकृत प्रमाणकशल्यचिकित्सक
क्र. ACS 15-AM/2016

Dr. ARVIND A. MANE
M.B.B.S., D.P.H.A.F.I.H. (MUMBAI)
MMC REGD. NO. : 2010/10/3176
GOVT. OF INDIA-GDFASLI REGD. NO.-02388
Consultant Industrial Health Physician

Annexure– III

Monitoring Reports of ETP

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

EQUINOX
Equinox Environments (India) Pvt. Ltd.
ISO 9001 : 2015 & QCI -NABET Accredited Organization

DATE: DECEMBER 02, 2020

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/404
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:	24.11.2020.
Analysis Date:	25.11.2020.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	2.85	7.67	6.5-8.5	--
02	Suspended Solids (SS)	163.74	21.47	100	mg/lit
03	Total Dissolved Solids (TDS)	1098.32	782.30	2100	mg/lit
04	Chemical Oxygen Demand (COD)	523.95	70.12	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	190.44	25.01	100	mg/lit
06	Chlorides as Cl^-	375.42	190.36	600	mg/lit
07	Sulphates as SO_4^{--}	263.51	145.29	1000	mg/lit
08	Oil & Grease	2.11	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- *BDL: Below Detectable Limit.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- H-128 (FIRST FLOOR), LAJPAT NAGAR PART-1, NEW DELHI-110 024
- L. I. G. 'B' 543, A.S. RAO NAGAR, E.C.I.L. POST, HYDERABAD, TELANGANA - 500 062
- THE MARYLANDER, 3501 SAINT PAUL STREET, APARTMENT NO. 233, BALTIMORE, MD - 21218, USA

- 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 9822882822
- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890150522
- Website : www.equinoxenvi.com
- E-mail : enquiry@equinoxenvi.com, customercare@equinoxenvi.com

EQUINOX
Equinox Environments (India) Pvt. Ltd.
ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: DECEMBER 21, 2020

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/599
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:	12.12.2020.
Analysis Date:	14.12.2020.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.01	7.75	6.5-8.5	--
02	Suspended Solids (SS)	156.85	19.02	100	mg/lit
03	Total Dissolved Solids (TDS)	2856.32	695.83	2100	mg/lit
04	Chemical Oxygen Demand (COD)	3169.80	65.27	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1210.49	23.85	100	mg/lit
06	Chlorides as Cl^-	765.92	180.30	600	mg/lit
07	Sulphates as SO_4^{--}	650.37	136.92	1000	mg/lit
08	Oil & Grease	2.36	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Limit.*

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 9822882822
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Equinox Environments (India) Pvt. Ltd.
ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: JANUARY 21, 2021

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/698
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:	14.01.2021.
Analysis Date:	15.01.2021.
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.25	7.61	6.5-8.5	--
02	Suspended Solids (SS)	174.62	17.44	100	mg/lit
03	Total Dissolved Solids (TDS)	3065.93	650.23	2100	mg/lit
04	Chemical Oxygen Demand (COD)	3218.05	68.82	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1334.67	25.06	100	mg/lit
06	Chlorides as Cl^-	746.30	169.83	600	mg/lit
07	Sulphates as SO_4^{--}	523.42	123.27	1000	mg/lit
08	Oil & Grease	2.00	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Limit.*

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

EQUINOX
Equinox Environments (India) Pvt. Ltd.
ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: FEBRUARY 16, 2021

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/794
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:	10.02.2021.
Analysis Date:	11.02.2021
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.49	7.52	6.5-8.5	--
02	Suspended Solids (SS)	174.96	18.30	100	mg/lit
03	Total Dissolved Solids (TDS)	3069.53	700.12	2100	mg/lit
04	Chemical Oxygen Demand (COD)	3596.71	62.55	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1495.85	24.39	100	mg/lit
06	Chlorides as Cl^-	800.90	214.67	600	mg/lit
07	Sulphates as SO_4^{--}	569.32	157.42	1000	mg/lit
08	Oil & Grease	6.00	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Limit.*

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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EQUINOX

Equinox Environments (India) Pvt. Ltd.

ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: MARCH 15, 2021

EFFLUENT SAMPLE ANALYSIS REPORT

Report No.:	EEIPL/REP/2020.21/905
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:	10.03.2021.
Analysis Date:	11.03.2021
Sample Name:	Industrial Effluent – Untreated & Treated

RESULTS

SR. NO.	TEST DESCRIPTION	UNTREATED	TREATED	MPCB LIMIT	UNIT
01	pH	3.55	7.68	6.5-8.5	--
02	Suspended Solids (SS)	152.34	17.50	100	mg/lit
03	Total Dissolved Solids (TDS)	2895.61	623.04	2100	mg/lit
04	Chemical Oxygen Demand (COD)	2846.10	65.98	250	mg/lit
05	Biochemical Oxygen Demand (BOD)	1023.92	23.44	100	mg/lit
06	Chlorides as Cl^-	523.61	165.01	600	mg/lit
07	Sulphates as SO_4^{--}	230.14	110.57	1000	mg/lit
08	Oil & Grease	7.00	BDL	10	mg/lit

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *BDL: Below Detectable Limit.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

- H-128 (FIRST FLOOR), LAJPAT NAGAR PART-1, NEW DELHI-110 024
- L. I. G. 'B' 543, A.S. RAO NAGAR, E.C.I.L. POST, HYDERABAD, TELANGANA - 500 062
- THE MARYLANDER, 3501 SAINT PAUL STREET, APARTMENT NO. 233, BALTIMORE, MD - 21218, USA

Annexure – IV

Monitoring Reports of Ambient Air Qulity

- F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION, OPP. KAMALA COLLEGE, KOLHAPUR - 416 001 (M.S.), PH.: (0231) 2531231, MOBILE: 9657865122
- Website : www.equinoxenvi.com
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DATE: DECEMBER 02, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/397
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:00 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	19.0 ^{0}C	
06	Relative Humidity	42.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	64.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.45 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	26.71 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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)

- H-128 (FIRST FLOOR), LAJPAT NAGAR PART-1, NEW DELHI-110 024
- L. I. G. 'B' 543, A.S. RAO NAGAR, E.C.I.L. POST, HYDERABAD, TELANGANA - 500 062
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■ F-11, NAMDEV NEST, 1160-B, 'E' WARD, SYKES EXTENSION,
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DATE: DECEMBER 02, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/398
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	10:10 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	19.0 ^{0}C	
06	Relative Humidity	42.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	59.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.95 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	24.76 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- *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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DATE: DECEMBER 02, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/399
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	10:20 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	19.0 ^{0}C	
06	Relative Humidity	42.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	67.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.43 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	25.50 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- *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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DATE: DECEMBER 02, 2020

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/400
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020
Time :	10:45 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	168^{0}C (441 K)
06	Differential Pressure	2.30 mm Wg
07	Velocity	6.05 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	269807.59 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	62.83 mg/Nm^3
02	Sulphur Dioxide (SO_2)	45.74 mg/Nm^3
		284.09 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001-2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
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- H-12B (FIRST FLOOR), LAJPAT NAGAR PART-1, NEW DELHI-110 024
- L. I. G. 'B' 543, A.S. RAO NAGAR, E.C.I.L. POST, HYDERABAD, TELANGANA - 500 062
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DATE: DECEMBER 02, 2020

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/401
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	24.11.2020
Time :	12:00 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	175 ^{0}C (448 K)
06	Differential Pressure	3.00 mm Wg
07	Velocity	6.96 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	117962.86 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	58.42 mg/Nm^3
02	Sulphur Dioxide (SO_2)	35.65 mg/Nm^3
		100.93Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
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- H-128 (FIRST FLOOR), LAJPAT NAGAR PART-1, NEW DELHI-110 024
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DATE: DECEMBER 21, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/592
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	09:40 A.M.	
03	Ambient Temperature	27.0 ^{0}C	
04	Dry Bulb Temperature	27.0 ^{0}C	
05	Wet Bulb Temperature	17.0 ^{0}C	
06	Relative Humidity	35.5 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	63.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	19.45 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	24.90 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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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DATE: DECEMBER 21, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/593
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	09:50 A.M.	
03	Ambient Temperature	27.0 ^{0}C	
04	Dry Bulb Temperature	27.0 ^{0}C	
05	Wet Bulb Temperature	17.0 ^{0}C	
06	Relative Humidity	35.5 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	61.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	22.75 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	26.02 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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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DATE: DECEMBER 21, 2020

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/594
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020

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 ^{0}C	
04	Dry Bulb Temperature	27.0 ^{0}C	
05	Wet Bulb Temperature	17.0 ^{0}C	
06	Relative Humidity	35.5 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	69.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	24.85 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	26.90 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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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DATE: DECEMBER 21, 2020

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/595
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020
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	171^0C (444 K)
06	Differential Pressure	1.50 mm Wg
07	Velocity	4.90 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	208284.81 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	59.23 mg/Nm^3
02	Sulphur Dioxide (SO_2)	39.15 mg/Nm^3
		195.70 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
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DATE: DECEMBER 21, 2020

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/596
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	12.12.2020
Time :	12:10 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	178 ^{0}C (451 K)
06	Differential Pressure	1.90 mm Wg
07	Velocity	4.60 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	93564.74 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	55.63 mg/Nm^3
02	Sulphur Dioxide (SO_2)	32.01 mg/Nm^3
		71.88 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

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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- OFFICE NO. 67, 4th FLOOR, KUNAL PLAZA, CHINCHWAD CHOWK, PUNE - 411 019 (M.S.), MOBILE : +91 9890150522
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DATE: JANUARY 21, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/691
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	10:30 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	36.8 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	59.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	18.02 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	21.44 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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)

DATE: JANUARY 21, 2021

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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AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/692
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	10:40 A.M.	
03	Ambient Temperature	28.0 ^{0}C	
04	Dry Bulb Temperature	28.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	36.8 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	59.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.14 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	24.67 µg/cum	80 µg/cum

Note:

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- *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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DATE: JANUARY 21, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/693
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	10:55 A.M.	
03	Ambient Temperature	29.0 ^{0}C	
04	Dry Bulb Temperature	29.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	33.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	64.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	21.47 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	24.20 µg/cum	80 µg/cum

Note:

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DATE: JANUARY 21, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/694
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021
Time :	11:15 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	167^0C (440 K)
06	Differential Pressure	1.30 mm Wg
07	Velocity	4.54 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	194781.98 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	56.83 mg/Nm^3
02	Sulphur Dioxide (SO_2)	32.10 mg/Nm^3
		150.06 Kg /Day

Note:

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- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: JANUARY 21, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/695
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	14.01.2021
Time :	12:30 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	172 ^{0}C (445 K)
06	Differential Pressure	1.50 mm Wg
07	Velocity	4.91 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	83693.03 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	52.66 mg/Nm^3
02	Sulphur Dioxide (SO_2)	28.05 mg/Nm^3
		56.34 Kg /Day

Note:

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- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

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(Dy. Head Monitoring)

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DATE: FEBRUARY 16, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/787
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	02:30 P.M.	
03	Ambient Temperature	33.0 ^{0}C	
04	Dry Bulb Temperature	33.0 ^{0}C	
05	Wet Bulb Temperature	20.0 ^{0}C	
06	Relative Humidity	29.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	66.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	21.42 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	27.01 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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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DATE: FEBRUARY 16, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/788
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	02:40 P.M.	
03	Ambient Temperature	33.0 ^{0}C	
04	Dry Bulb Temperature	33.0 ^{0}C	
05	Wet Bulb Temperature	20.0 ^{0}C	
06	Relative Humidity	29.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	63.33 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	20.47 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	23.62 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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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DATE: FEBRUARY 16, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/789
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	02:55 P.M.	
03	Ambient Temperature	33.0 ^{0}C	
04	Dry Bulb Temperature	33.0 ^{0}C	
05	Wet Bulb Temperature	21.0 ^{0}C	
06	Relative Humidity	33.4 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	70.36 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	21.85 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	23.40 µg/cum	80 µg/cum

Note:

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- *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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DATE: FEBRUARY 16, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/790
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021
Time :	03:30 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	180^0C (453 K)
06	Differential Pressure	1.10 mm Wg
07	Velocity	4.24 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	176583.73 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	56.86 mg/Nm^3
02	Sulphur Dioxide (SO_2)	36.92 mg/Nm^3
		156.47 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: FEBRUARY 16, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/791
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.02.2021
Time :	04:50 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	182 ^{0}C (455 K)
06	Differential Pressure	1.50 mm Wg
07	Velocity	4.96 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	82768.22 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	49.85 mg/Nm^3
02	Sulphur Dioxide (SO_2)	28.01 mg/Nm^3
		55.64 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

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DATE: MARCH 15, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/898
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021

RESULTS

SR. NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Main Gate	
02	Time of Sampling	09:30 A.M.	
03	Ambient Temperature	29.0 ^{0}C	
04	Dry Bulb Temperature	29.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	33.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	64.23 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	19.05 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	26.88 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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

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ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: MARCH 15, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/899
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near ETP	
02	Time of Sampling	09:40 A.M.	
03	Ambient Temperature	29.0 ^{0}C	
04	Dry Bulb Temperature	29.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	33.1 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	62.86 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	18.30 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	21.97 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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)

- H-128 (FIRST FLOOR), LAJPAT NAGAR PART-1, NEW DELHI-110 024
- L. I. G. 'B' 543, A.S. RAO NAGAR, E.C.I.L. POST, HYDERABAD, TELANGANA - 500 062
- THE MARYLANDER, 3501 SAINT PAUL STREET, APARTMENT NO. 233, BALTIMORE, MD - 21218, USA

- 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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DATE: MARCH 15, 2021

AMBIENT AIR QUALITY MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/900
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site :	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021

RESULTS

SR.NO.	TEST DESCRIPTION	READINGS	NAAQS
01	Test Location	Near Bagass Yard	
02	Time of Sampling	09:50 A.M.	
03	Ambient Temperature	30.0 ^{0}C	
04	Dry Bulb Temperature	30.0 ^{0}C	
05	Wet Bulb Temperature	18.0 ^{0}C	
06	Relative Humidity	29.7 %	
07	Sampling Duration	60 Min.	
08	Particulate Matter (PM_{10})	67.36 µg/cum	100 µg/cum
09	Sulphur Dioxide (SO_2)	17.65 µg/cum	80 µg/cum
10	Oxides of Nitrogen (NO_x)	22.89 µg/cum	80 µg/cum

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *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: MARCH 15, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/901
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021
Time :	10:20 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	170^0C (433 K)
06	Differential Pressure	1.00 mm Wg
07	Velocity	4.00 m/sec
08	Stack Diameter	4.73 m
09	Stack Area	17.5627 m^2
10	Gas Volume	170255.67 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	52.83 mg/Nm^3
02	Sulphur Dioxide (SO_2)	30.71 mg/Nm^3
		125.49 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: 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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EQUINOX

Equinox Environments (India) Pvt. Ltd.

ISO 9001 : 2015 & QCI - NABET Accredited Organization

DATE: MARCH 15, 2021

SOURCE EMISSION MONITORING RESULTS

Report No.:	EEIPL/REP/2020.21/902
Client :	**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,**
Site:	A/p.: Hupari, Dist.: Kolhapur.
Plant Condition :	In Operation.
Date of Sampling:	10.03.2021
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	175 ^{0}C (448 K)
06	Differential Pressure	1.00 mm Wg
07	Velocity	4.02 m/sec
08	Stack Diameter	3.00 m
09	Stack Area	7.0650 m^2
10	Gas Volume	68105.89 Nm^3/Hr

FLUE GAS QUALITY

SR.NO.	PARAMETER	VALUE
01	Suspended Particulate Matter (SPM)	34.83 mg/Nm^3
02	Sulphur Dioxide (SO_2)	22.47 mg/Nm^3
		36.73 Kg /Day

Note:

- ***The analysis has been conducted in a MoEFCC; New Delhi approved and NABL accredited laboratory- M/s. Green Envirosafe Engineers & Consultant Pvt. Ltd, Pune- that has also received OHSAS 18001–2007 accreditations.***
- *Maharashtra Pollution Control Board (MPCB) Limits - SPM: 150 mg / Ncum*
- *Maharashtra Pollution Control Board (MPCB) Limits - SO_2: As per Consent.*

Dr. Sandip Mangalekar
(Dy. Head Monitoring)

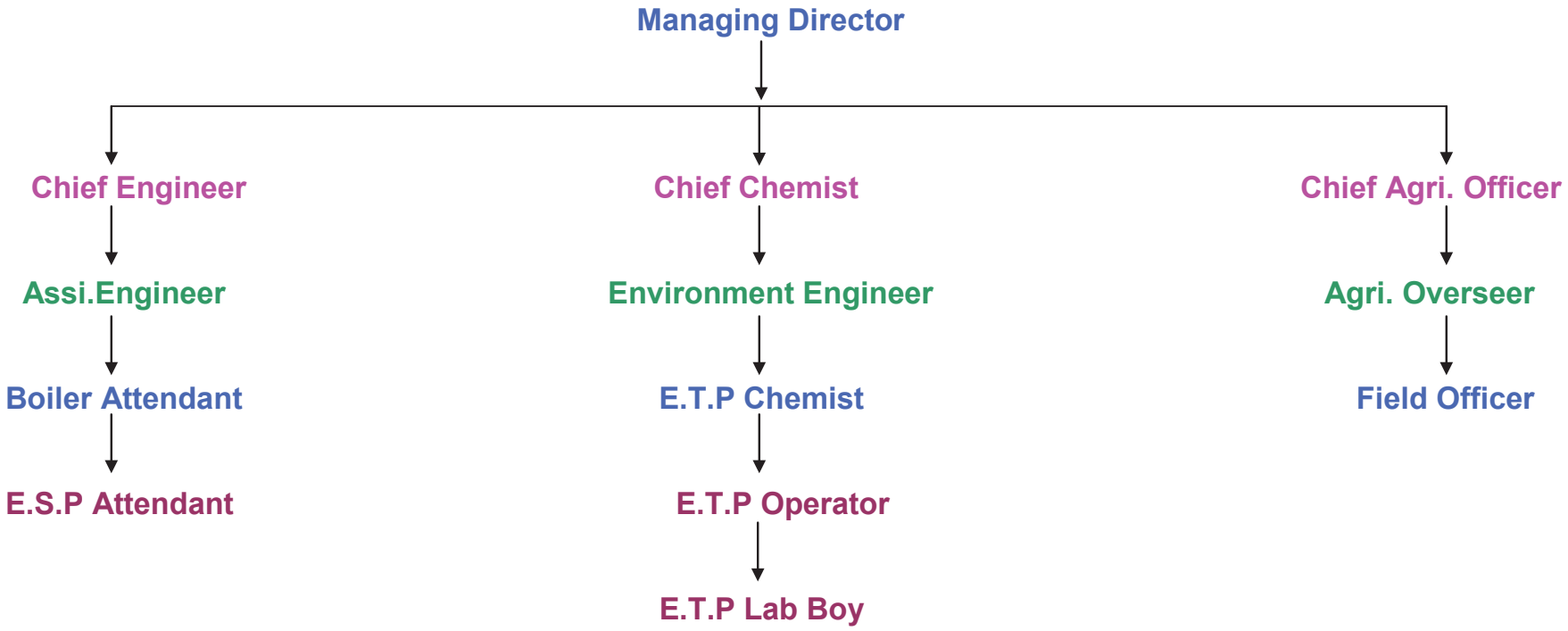
Annexure – V

Environment Management Cell

Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari

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

Environmental Management Cell



Annexure – VI

Green Belt Details

GREENBELT DEVELOPMENT AT
JAWAHAR SHETAKARI S.S.K. LTD. (JSSSKL),
AT: HUPARI, TAL.: HATKANANGALE, DIST.: KOLHAPUR, MAHARASHTRA

शेती/गार्डन
दि. ०८/०४/२०२१

चिफ केमिस्टसो,
यांचेकडे -

विषय : गार्डन विभागाकडील क्षेत्र निहाय झाडांची माहिती.

महोदय,

आपले दि. ०५/०४/२०२१ च्या डी.पी. नुसार दि.३१-०३-२०२१ अखेर गार्डन विभागाकडील झाडांची क्षेत्रवाईज माहिती खालीलप्रमाणे-

अ.न.	गट नं.	झाडांचे क्षेत्र	एकर गुंठे
१	१२५८	खोपी तळ	२२.३६
२	३१५/८,९	कॉलनीतील झाडे	५.००
३	३१५/११	केनयार्ड पश्चिम बाजू	३.३०
४	३१५/९,१०	ऑफीस मागील आंबा व गुलाब	३.००
५	३१५/१०	स्टेज परीसर	२.११
६	३१५/९, ९२५/९	मेन रोड साईट दोन्ही बाजू	१.१३
७	३१५/१४	राख अड्डा	०.१३
८	३१५/१४	हमाल शेड निलगिरी प्लॉट	४.२६
९	३१५/१४	हमाल शेड जंगली झाडे	४.१६
१०	३१५/११	कारखाना मेन गेट परिसर	०.०३
११	३१५/१४	स्विचयार्ड बैलगाडी अड्डा	०.२२
१२	३१५/११	तळ्याभोवतीचे क्षेत्र गोडा.१३ मागे	२.१०
१३	३१५/७	पेट्रोल पंप	०.०५
१४	३१५/८	कंपोस्ट यार्डातील बांबू	२.२५
१५	३१५/७,८,९	बियाणे मळा	१३.३०
१६	९२५/९	फ्लॉवर बेड	०.११
१७	३१५/९	गेस्टहाऊस, बोर्डरूम परिसर	०.१२
१८	९२५/९	करंज,चिक्कू,आंबा परिसर	२.०२
१९	९२५/९	म्हसोबा मंदीर परिसर	६.००
२०	९२५/९,३१५/९	राजराजेश्वरी मंदीर ते बियाणे मळा नारळ, अशोक	१.३१
२१	९२५/९	कॅनॉल बाजू नारळ, अशोक झाडे	१.०८
२२	९२५/९,३१५/९	गेटबाहेरील दोन्ही क्रॉसबेड	०.०८
२३	९२५/९	मंदीर परिसर	१.१०
२४	९२५/९	केनयार्ड ते राजराजेश्वरी मंदीर रोड	०.२२
२५	९२५/९	ट्रॅक्टर अड्डयातील झाडे	२.३६
		एकूण-	**८३.२०**

मुख्य शेती अधिकारी

E:\ABHISHEK\Garden DP.doc 262.19-20 .262.

जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी,

श्री कल्लाप्पाण्णा आवाडेनगर, हुपरी-यळगूड : ४१६ २०३, ता. हातकणंगले, जि. कोल्हापूर (महाराष्ट्र)
फोन नं. (०२३०)२४५०४०२ ते ६, फॅक्स नं.(०२३०)२४५०४०१,
ई-मेल : kprjsssk@gmail.com

कारखाना कार्यस्थळांवर असलेल्या विविध झाडांची माहिती

सन २०२१ दि. ०८/०४/२०२१

अ.नं.	तपशील	संख्या
अ)	**फळझाडे**	
१	नारळ	६१३
२	आंबा	३५०
३	चिक्कू	१५६
	एकूण -	१११९
ब)	**जंगली झाडे**	
१	रेनट्री	२७००
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	१२३९
३०	जांभूळ	१००
३१	प्लेटोफोरम	२५०
३२	बांबू	२७६३४
३३	काटेसावर	१७०
	एकूण	४५३६८
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**	**४५३९३**
क	**शोभीवंत झाडे**	**७२३८**
ड	**फूलझाडे**	**८५२९**
	एकूण -	**६२२७९**

मुख्य शेती अधिकारी