

# 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 : kprjssk@gmail.com

Ref. No. MFG/ETP / 6985 /2023

Date: - 23/11/2023

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

**Sub:** Submission of Six Monthly Environment Compliance report for period April 2023 to September 2023 w.r.t Sugar Unit of 16,000 TCD – **Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari.** Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra State.

**Ref.** Environmental Clearance (EC) Letter for 16000 TCD Sugar Unit F. No. F.No.IA-J-11011/146/2020-IA II (I) Dated 1<sup>st</sup> December, 2020. Ammended in EC letter dated 25/12/2021.

Dear Sir,

This has reference to Environmental Clearance (EC) granted to our Sugar Unit 16000 TCD – **Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari.** Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra State).

As per General Condition No. XII in EC letter, we are submitting a six monthly compliance report for a period of April 2023 to September 2023.

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

Thanking you,

Yours Faithfully,



(M.G.Joshi)  
Managing Director

Encl. - As above

**Copy for information to:-**

1. The Integrated Regional Office,  
MoEFCC; Western Region (WCZ),  
Ground Floor, East Wing,  
New Secretariat Building,  
Civil Lines,  
Nagpur – 440001.  
Email – [ecompliance-mh@gov.in](mailto:ecompliance-mh@gov.in)  
[Ecompliance-mh@gov.in](mailto:Ecompliance-mh@gov.in)
  
2. Sh. Bharat Kr. Sharma  
Scientist 'F'  
Central Pollution Control Board,  
Pune.  
Email – [bksharma.cpcb@nic.in](mailto:bksharma.cpcb@nic.in)
  
3. Member Secretary,  
Maharashtra Pollution Control Board,  
Kalpataru Point, 3<sup>rd</sup> & 4<sup>th</sup> Floor,  
Opp.Cine Planet,  
Near Sion Circle, Sion (E),  
Mumbai (Maharashtra) - 400 022.  
Email – [ms@mpcb.gov.in](mailto:ms@mpcb.gov.in)
  
4. Regional Officer,  
Maharashtra Pollution Control Board,  
Udyog Bhavan Building,  
Naer Collector Office,  
Kolhapur- 416 002.  
Email – [rokolhapur@mpcb.gov.in](mailto:rokolhapur@mpcb.gov.in)



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

By Speed Post/Online

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

Dated: 1<sup>st</sup> 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 19<sup>th</sup> 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 Shetakari 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
<b>By-product</b>			
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 ha will 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 Department Kolhapur, 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 30<sup>th</sup> March, 2019. Public hearing for the project was conducted by the State Pollution Control Board on 12<sup>th</sup> 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 20<sup>th</sup> 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 31<sup>st</sup> January, 2020 (after conducting site visit on 21<sup>st</sup> 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 on 14-16 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 and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **Expansion of Sugar factory from 12,000 TCD to 16,000 TCD by M/s Jawahar Shetakari 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 offers and conditions 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 16<sup>th</sup> 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, 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.
- (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 31<sup>st</sup> 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, 15<sup>th</sup> 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, 3<sup>rd</sup> and 4<sup>th</sup> 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



**By Speed Post/Online**

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

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Indira Paryavaran Bhawan,  
Jal Wing, 3<sup>rd</sup> Floor, Aliganj,  
Jor Bagh Road, New Delhi-110 003

Dated: 25th October, 2021

To,

**M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd.,**  
Gat No.: 315/7 to 315/15, Shri Kallappanna Awadenagar,  
Hupari-Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur, Maharashtra

**Sub: Expansion of Sugar Factory from 12,000 TCD to 16,000 TCD,  
Gat No.: 315/7 to 315/15, Shri Kallappanna Awadenagar,  
Hupari-Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur,  
Maharashtra by M/s. Jawahar Shetakari Sahakari Sakhar  
Karkhana Ltd. - Amendment in Environmental Clearance  
regarding.**

Sir,

This refers to your online proposal No. IA/MH/IND2/224565/2021 dated 13<sup>th</sup> August, 2021 for amendment in the environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has considered the above proposal for amendment in the environmental clearance granted by the Ministry vide letter F. No. J-11011/146/2020-IA-II dated 01.12.2020 for the project Expansion of Sugar Factory from 12000 TCD to 16,000 TCD at Gat No.: 315/7 to 315/15, Shri Kallappanna Awadenagar, Hupari - Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur, Maharashtra in favor of M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd.

3. The project proponent has requested for amendment in the EC with the details are as under:

3/22

Sr. No.	Para of EC issued by MoEF&CC	Details as per the EC	To be Revised / Read as	Justification/ reasons
1	Page No. 4, Point No. 13, Sub Point (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.	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 and for gardening/ greenbelt development/ horticulture in own premises only and not to send outside/ used for farming.	<ul style="list-style-type: none"> <li>• Subsequent to grant of EC on 01.12.2020, Industry explored feasibility towards achieving the condition stipulated in EC towards not utilizing cane condensate for watering of Green Belt in its premises during Dec. 2020 - March 2021 Crushing Season.</li> <li>• Despite utilizing all treated effluents &amp; condensate in process &amp; utilities, 35% of excess condensate remained balanced (2,250 CMD).</li> <li>• In ensuing season, after switching to 16,000 TCD crushing, more quantity of excess condensate will remain as non-usable balance creating onsite storage &amp; disposal problems.</li> </ul>

8742

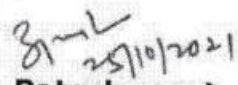
Sr. No.	Para of EC issued by MoEF&CC	Details as per the EC	To be Revised / Read as	Justification/ reasons
				<ul style="list-style-type: none"> <li>• A sugar factory becomes water exporting unit due to water content in cane (70%) which comes out as condensate after juice heating, concentration &amp; syrup making. For Green Belt; Fresh Water (1900 CMD) was used that put adverse impact (Negative) River water Resource.</li> </ul>

4. During deliberation, EAC suggested that no waste or treated water shall be discharged outside the premises. PP has submitted an undertaking for the above and EAC found it in order.

5. The proposal was appraised by the Expert Appraisal Committee (Industry-2) in the Ministry in its meeting held on 28-30<sup>th</sup> September, 2021. The EAC, after detailed deliberations, recommended the amendment in EC as proposed by the project proponent. Based on recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords approval to the proposed amendments in the environmental clearance dated 01<sup>st</sup> December, 2020 as stated in para 3 above, for the project **Expansion of Sugar Factory from 12,000 TCD to 16,000 TCD, Gat No.: 315/7 to 315/15, Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur, Maharashtra by M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd.**

6. All other terms and conditions stipulated in the environmental clearance dated 01<sup>st</sup> December, 2020 shall remain unchanged.

7. This issues with approval of the competent authority.

  
 (Ashok Kr. Pateshwary)  
 Director

Copy to: -

1. The Secretary, Department of Environment, Government of

- Maharashtra, Mumbai 400 032
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur- 440001 Maharashtra
  3. The Chairman, Central Pollution Control Board Parivesh Bhavan, 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. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
  6. The District Collector, District Kolhapur, Maharashtra
  7. Guard File/Monitoring File/Parivesh portal/Record File

37-2  
25/10/2021

**(Ashok Kr. Pateshwary)**  
**Director**  
**E-mail: ak.pateshwary@gov.in**  
**Tel. No. 24695290**

**Six monthly (Period April 2023- September 2023) Compliance reports for M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd for Expansion of Sugar Factory from 12,000 TCD to 16,000 TCD**

**Brief Summary of the Project**

Name of Project & Address : **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari (JSSSKL)**, located at Kallappanna Awadenagar, Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, Maharashtra State

Type of Project : Expansion of Sugar Factory from 12,000 TCD to 16,000 TCD ( Expansion by 4000 TCD)

Clearance Letter No. & date : **F. No. IA-J-11011/146/2020-IA II (I) Dated 01.12.2020.** And its amendment dated **25.10.2021**.Copies are **Enclosure - I**

**M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. Hupari (JSSSKL)** is an integrated Project Complex of Sugar factory (16,000 TCD) & Co-gen plant (28.5 MW) located at Kallappanna Awadenagar, Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, Maharashtra State. JSSSKL was established in year 1990 under The Maharashtra Co-operative Society Act 1960. Sugar factory was 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. The First crushing season of Sugar Factory was undertaken in the year 1993-94. Environmental Clearance 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 27<sup>th</sup> August 2007. Further, in year 2016 the Management of JSSSKL again planned to go for Expansion of Sugar Factory 7,500 TCD to 12,000 TCD for which EC was procured vide letter no. J-11011/38/2016-IA-II (I) dated 20<sup>th</sup> December, 2016. Thereafter JSSSKL planned to go for Expansion of Sugar Factory 12,000 TCD to 16,000 TCD for which EC was procured vide letter No. F.No. IA-J-11011/146/2020-IA II (I) Dated 1<sup>st</sup> December, 2020. Moreover, in the year 2021 an amendment in 16000 TCD sugar factory EC was done by MoEFCC w.r.t usage of treated effluent in own factory premises.

**A. Status of Condition Compliance :**

Compliance of Specific and General Conditions mentioned in Environmental Clearance (EC) letter bearing no.F.No.IA-J-11011/146/2020-IA II (I) dated 01.12.2020 & It's Amendment dated 25.10.2021 for period April 2023- September 2023 as follows-

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated																					
<b>A.</b>	<b>SPECIFIC CONDITIONS</b>																						
<b>1</b>	<p><b>Condition No.1</b> 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.</p>		<table border="1"> <thead> <tr> <th data-bbox="865 365 943 417">No.</th> <th data-bbox="943 365 1252 417">Description</th> <th data-bbox="1252 365 1544 417">Annual O &amp; M (Rs. in Lakhs) April 2023 to September 2023</th> </tr> </thead> <tbody> <tr> <td data-bbox="865 417 943 470">1</td> <td data-bbox="943 417 1252 470">APC equipment</td> <td data-bbox="1252 417 1544 470">1.52</td> </tr> <tr> <td data-bbox="865 470 943 522">2</td> <td data-bbox="943 470 1252 522">E.T.P &amp; Upgradation</td> <td data-bbox="1252 470 1544 522">33.37</td> </tr> <tr> <td data-bbox="865 522 943 575">3</td> <td data-bbox="943 522 1252 575">Environmental Monitoring</td> <td data-bbox="1252 522 1544 575">0.00</td> </tr> <tr> <td data-bbox="865 575 943 627">4</td> <td data-bbox="943 575 1252 627">Greenbelt</td> <td data-bbox="1252 575 1544 627">0.37</td> </tr> <tr> <td colspan="2" data-bbox="865 627 1252 680"><b>Total</b></td> <td data-bbox="1252 627 1544 680"><b>35.26</b></td> </tr> </tbody> </table>	No.	Description	Annual O & M (Rs. in Lakhs) April 2023 to September 2023	1	APC equipment	1.52	2	E.T.P & Upgradation	33.37	3	Environmental Monitoring	0.00	4	Greenbelt	0.37	<b>Total</b>		<b>35.26</b>		<p>The industry is complying with all recommendations made in EIA/EMP w.r.t environmental management plan and risk mitigation measures related to the project implementation.</p>
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<b>2</b>	<p><b>Condition No.2</b> 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.</p> <p><b>Revised Condition</b> As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be outside the premises. Treated water shall be reused in the process/utilities &amp; for gardening/green belt development / horticulture in own premises and not to send outside/used for farming.</p>	<p>The total effluent generated from the sugar factory and the co-gen plant is 1430 CMD The same is treated in state of art effluent treatment plant. As per the amended EC, the treated effluent is used for gardening and the development of a green belt in its own factory premises. Moreover, STP's of capacity 100 KLD and 50 KLD has been installed on site for the treatment of domestic effluent. Flow sheet and Photographs of ETP and STP is enclosed at <b>Annexure - I</b></p>																					
<b>3</b>	<p><b>Condition No.3</b> 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.</p>	<p>The total freshwater requirement is 328 cum/day. The same is taken from Dudhganga river for which permission has already been procured from irrigation department vide no. Kopavi (U)/Prasha-3/(37)/bigarsinchan/4944/2018. Dated <b>04.05.2018</b> valid up to 30.04.2024. Copy water lifting</p>																					

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		permission from the irrigation department is enclosed at <b>Annexure-II</b>
4	<p><b>Condition No.4</b> 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.</p>	<p>The company has its own well-equipped ambulance and appointed permanent drivers to provide 24 hours ambulance service to all employees. Sanitation facility is provided to all employees in industrial premises. A doctor has been appointed on industrial site to provide healthcare facility to employees. Also necessary healthcare facilities are being provided with routine health survey tests &amp; through medical camps. Latest health check-up reports &amp; photographs of PHC facility are attached at <b>Annexure - III</b></p>
5	<p><b>Condition No.5</b> 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.</p>	<p>The industry is following the safety measures during manufacturing process in material handling. Fire-fighting system infrastructure comprising of fire water lines, fire hydrants, fire tender, fire extinguishers etc. at all strategic &amp; fire prone areas in the industry, bagasse yard, molasses storage section etc. The firefighting arrangements have been provided on site as per Factories Act. Training and Mock drills are conducted for employees on safety and health aspects of chemical handling. Once in a year medical examinations is carried out. Pre-employment medical examination done for all employees. Training and Mock drills records is enclosed at <b>Annexure-IV</b>.</p>
6	<p><b>Condition No.6</b> Process organic residue and spent carbon, if any, shall be sent to Cement/other suitable industries for its incinerations/management.</p>	<p>This is an agro-based industry. Hence generation of hazardous waste such process organic residue and spent carbon, process inorganic &amp; evaporation salt etc. are not generated.</p>
7	<p><b>Condition No.7</b> 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</p>	<p>The total effluent generated from sugar factory and co-gen plant is 1430 CMD The same is treated in state of art effluent treatment plant. As per amended EC, the treated effluent is used for gardening and development of green belt in own factory premises. Moreover, STP's of capacity 100 KLD and 50 KLD has been installed on site for treatment of domestic effluent. Flow sheet and Photographs of ETP as well as that of STP is</p>



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	contamination of ground/surface water.	enclosed at <b>Annexure - I</b>
<b>8</b>	<p><b>Condition No.8</b> The company shall undertake waste minimization measures as below:-</p> <p>(a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>(b) Reuse of by-product from the process as raw materials substitutes in order processes.</p> <p>(c) Use of automated filling to minimize spillage.</p> <p>(d) Use of Close Feed system into batch reactors.</p> <p>(e) Venting equipment through vapor recovery system.</p> <p>(f) Use of high pressures hoses for equipment clearing to reduce waste water generation.</p>	<p>The project is an agro-based industry. Sugar factory byproducts such as bagasse are utilized in cogeneration plants. Practices of recycling &amp; reuse are duly followed in minimizing freshwater requirements. Molasses is transferred by closed pipelines. Waste minimization is also adopted. Bagasse is handled &amp; fed to the boiler through the closed conveyor. ZLD of effluent is also adopted. Moreover, For trash management Vermi composting is being done on site for manure. The Photographs of Composting is Enclosed at <b>Annexure - V</b></p>
<b>9</b>	<p><b>Condition No.9</b> 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.</p>	<ul style="list-style-type: none"> <li>• A comprehensive green belt has already been developed in JSSSKL premises Total Plot area of JSSSKL is 99.57 Ha. Industry has developed a green belt on area of 39.9 Ha. where under 69,279 Nos. of trees are planted in industrial premises</li> <li>• This comes to about 40% of total plot area. Native, evergreen &amp; pollution resistant species like Silver Oak, Rain tree, Neem, Suru, Saag etc have been planted. Avenue plantation, shelter belt plantation, mass plantation &amp; pocket plantation has been done on site.</li> <li>• Details and Photographs of Green belt is enclosed at <b>Annexure - VI</b></li> <li>• Industry has complied with the condition of Tree Canopy monitoring through remote sensing map. Detailed report of the same is attached at <b>Annexure -VII</b></li> </ul>
<b>10</b>	<p><b>Condition No.10</b> 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</p>	<ul style="list-style-type: none"> <li>• Industry has allocated Rs. 500 Lakhs funds towards Corporate Environmental Responsibility (CER) activities Corporate Environmental Responsibility is being implemented in phase-wise</li> </ul>

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	<p>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 of clean &amp; safe drinking water supply, non-conventional energy promotion, supply of MSW management infrastructure, medical &amp; 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.</p>	<p>manner. Revised Time bound action plan including suggestion of IRO for expenditure of CER activities is attached at <b>Annexure - VIII</b> Following are the details of expenditure made during the monitoring period:</p> <table border="1" data-bbox="873 495 1528 1031"> <thead> <tr> <th data-bbox="873 495 964 663">No.</th> <th data-bbox="964 495 1336 663">CER Activity</th> <th data-bbox="1336 495 1528 663">Amount (in Lakh) April 2023 to September 2023</th> </tr> </thead> <tbody> <tr> <td data-bbox="873 663 964 701">1.</td> <td data-bbox="964 663 1336 701">Sports Promotion funding</td> <td data-bbox="1336 663 1528 701">2.88</td> </tr> <tr> <td data-bbox="873 701 964 739">2.</td> <td data-bbox="964 701 1336 739">Funding for Social Activities</td> <td data-bbox="1336 701 1528 739">21.85</td> </tr> <tr> <td data-bbox="873 739 964 777">3.</td> <td data-bbox="964 739 1336 777">Medical Aid</td> <td data-bbox="1336 739 1528 777">9.73</td> </tr> <tr> <td data-bbox="873 777 964 814">4.</td> <td data-bbox="964 777 1336 814">Funding for education</td> <td data-bbox="1336 777 1528 814">1.79</td> </tr> <tr> <td data-bbox="873 814 964 886">5.</td> <td data-bbox="964 814 1336 886">Funding for Cultural Programmes</td> <td data-bbox="1336 814 1528 886">0.10</td> </tr> <tr> <td data-bbox="873 886 964 957">6.</td> <td data-bbox="964 886 1336 957">Provision of Drinking Water Facility</td> <td data-bbox="1336 886 1528 957">0.00</td> </tr> <tr> <td data-bbox="873 957 964 995">7.</td> <td data-bbox="964 957 1336 995">Drip Irrigation Subsidy</td> <td data-bbox="1336 957 1528 995">0.00</td> </tr> <tr> <td colspan="2" data-bbox="873 995 1336 1031" style="text-align: right;"><b>Total</b></td> <td data-bbox="1336 995 1528 1031"><b>36.35</b></td> </tr> </tbody> </table>	No.	CER Activity	Amount (in Lakh) April 2023 to September 2023	1.	Sports Promotion funding	2.88	2.	Funding for Social Activities	21.85	3.	Medical Aid	9.73	4.	Funding for education	1.79	5.	Funding for Cultural Programmes	0.10	6.	Provision of Drinking Water Facility	0.00	7.	Drip Irrigation Subsidy	0.00	<b>Total</b>		<b>36.35</b>
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11	<p><b>Condition No.11</b> The project proponent shall ensure rain water harvesting system in the project area and reduce dependency on fresh water from the river.</p>	<p>Rainwater harvesting is implemented on site. The rain water from rooftops &amp; paved surface is collected in tank and the harvested rain water is used for gardening. Therefore, reducing dependency of fresh water. Photographs of Rain water harvesting is enclosed at <b>Annexure - IX</b></p>																											
12	<p><b>Condition No.12</b> 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.</p>	<p>Industry has allocated about 19.91Ha of area for parking of bullock carts, tractors, trucks etc. carrying sugar cane to Industry from farms as well as for other vehicles transporting products like sugar &amp; alcohol (trucks, tankers etc.) as well as parking of workers' vehicles etc. The parking is around 20% of total plot area of 99.57 Ha.</p>																											
13	<p><b>Condition No.13</b> Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.</p>	<p>A cane yard is provided for sugar cane vehicles and other areas like bagasse yard, press mud yard &amp; ash storage yard are also provided with proper surfacing. All internal roads and work premises is asphalted and concrete. Maintained properly to control &amp; minimize fugitive dust emissions from the respective places. Working of pollution control</p>																											

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		equipment is monitored, proper handling; storage and disposal of dust collected, use of PPEs for staff and workers, existing green belt, water sprinkling in the premises is also done. <b>Annexure - X</b> may be referred for photographs of asphalted road.
<b>14</b>	<p><b>Condition No.14</b>            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.</p>	<p>Online Continuous Monitoring System (OCMS) for stack emissions has been installed for measurement of flue gases discharge and concentration of pollutants like SPM, SO<sub>2</sub>, and NO<sub>2</sub>. Also, OCMS is provided for ETP. Regular monitoring is being carried out as per the norms of MPCB. The monitoring is done by NABL accredited laboratory. Moreover, all the results are transmitted to CPCB and SPCB server as well as displayed continuously on a display board at the Main Entrance Gate of the industry. Photographs of APC Equipment, OCMS (Stack and ETP) is enclosed at <b>Annexure - XI</b></p>
<b>15</b>	<p><b>Condition No.15</b>            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 set up to carry out the Environmental Management and Monitoring functions.</p>	<p>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 is already established. Structure of EMC is enclosed at <b>Annexure - XII</b></p>
	<b>General Condition</b>	
<b>16</b>	<p><b>Condition No. 1</b>            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.</p>	<p>No expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC)/Department of Environment, Govt. of Maharashtra.</p>

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17	<p><b>Condition No. 2</b> The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.</p>	<p>The industry is preferring LED based lighting for energy conserving &amp; environment betterment. Accordingly, the same are provided in the premises.</p>
18	<p><b>Condition No. 3</b> The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.</p>	<ol style="list-style-type: none"> <li>1. Presently, AAQM is done in Industry at 3 Locations namely - near the cane yard, near main gate, near ETP in the month of December 2022, January 2023, February 2023 &amp; March 2023. Monitoring reports of the same is attached at <b>Annexure - XIII</b></li> <li>2. Also, AAQM is done in the nearby residential area - at 2 Locations namely - Downwind direction (Jangamwadi village) &amp; upwind direction (Talandage village) on 01.02.2023 as per CPCB &amp; SPCB norms. Monitoring reports are enclosed at <b>Annexure – XIII</b>.</li> </ol>
19	<p><b>Condition No. 4</b> The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November 2009 shall be followed.</p>	<ol style="list-style-type: none"> <li>3. Fugitive Emission monitoring has been done in crushing season of 2022-23 (i.e. from October 2022) at locations viz. Pan Section &amp; sugar house monitoring reports are enclosed at <b>Annexure – XIV</b>.</li> </ol>
20	<p><b>Condition No. 5</b> The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).</p>	<p>Acoustic hoods are provided to noise-generating equipment. Also, PPEs are provided to workers working in noisy areas. Overall noise levels in and around the plant area are maintained within the standards prescribed under the Environment (Protection) Act, 1986, 1989 Rules. Monitoring reports are enclosed at <b>Annexure - XIII</b></p>
21	<p><b>Condition No. 6</b> The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.</p>	<p>Rainwater harvesting is implemented on-site. The rainwater from Rooftops, Paved surfaces, and Unpaved surfaces are collected in a tank and the harvested rainwater is used for gardening. Photographs of Rainwater harvesting is enclosed at <b>Annexure - IX</b></p>
22	<p><b>Condition No.7</b> Training shall be imparted to all employees on safety and health aspects of chemicals</p>	<p>Training sessions/workshops for employees on safety and health aspects are organized regularly.</p>

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	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.	Also, medical examination is arranged for all employees once in a year. Onsite record of the same is maintained. Latest health checkup report dated 02.09.2022 to 01/09/2023 is attached at <b>Annexure - III</b>																											
23	<p><b>Condition No. 8</b></p> <p>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 village and administration.</p>	<p>Industry has allocated Rs. 500 Lakhs funds towards Corporate Environmental Responsibility (CER) activities Corporate Environmental Responsibility is being implemented in phase-wise manner. Following are the details of expenditure made during the monitoring period:</p> <table border="1" data-bbox="873 751 1539 1371"> <thead> <tr> <th data-bbox="873 751 959 888">No.</th> <th data-bbox="959 751 1284 888">CER Activity</th> <th data-bbox="1284 751 1539 888">Amount (in Lakh) April 2023 to September 2023</th> </tr> </thead> <tbody> <tr> <td data-bbox="873 888 959 968">1.</td> <td data-bbox="959 888 1284 968">Sports Promotion funding</td> <td data-bbox="1284 888 1539 968">2.88</td> </tr> <tr> <td data-bbox="873 968 959 1050">2.</td> <td data-bbox="959 968 1284 1050">Funding for Social Activities</td> <td data-bbox="1284 968 1539 1050">21.85</td> </tr> <tr> <td data-bbox="873 1050 959 1089">3.</td> <td data-bbox="959 1050 1284 1089">Medical Aid</td> <td data-bbox="1284 1050 1539 1089">9.73</td> </tr> <tr> <td data-bbox="873 1089 959 1129">4.</td> <td data-bbox="959 1089 1284 1129">Funding for education</td> <td data-bbox="1284 1089 1539 1129">1.79</td> </tr> <tr> <td data-bbox="873 1129 959 1211">5.</td> <td data-bbox="959 1129 1284 1211">Funding for Cultural Programmes</td> <td data-bbox="1284 1129 1539 1211">0.10</td> </tr> <tr> <td data-bbox="873 1211 959 1293">6.</td> <td data-bbox="959 1211 1284 1293">Provision of Drinking Water Facility</td> <td data-bbox="1284 1211 1539 1293">0.00</td> </tr> <tr> <td data-bbox="873 1293 959 1333">7.</td> <td data-bbox="959 1293 1284 1333">Drip Irrigation Subsidy</td> <td data-bbox="1284 1293 1539 1333">0.00</td> </tr> <tr> <td colspan="2" data-bbox="873 1333 1284 1371" style="text-align: right;"><b>Total</b></td> <td data-bbox="1284 1333 1539 1371"><b>36.35</b></td> </tr> </tbody> </table>	No.	CER Activity	Amount (in Lakh) April 2023 to September 2023	1.	Sports Promotion funding	2.88	2.	Funding for Social Activities	21.85	3.	Medical Aid	9.73	4.	Funding for education	1.79	5.	Funding for Cultural Programmes	0.10	6.	Provision of Drinking Water Facility	0.00	7.	Drip Irrigation Subsidy	0.00	<b>Total</b>		<b>36.35</b>
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24	<p><b>Condition No. 9</b></p> <p>The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.</p>																												

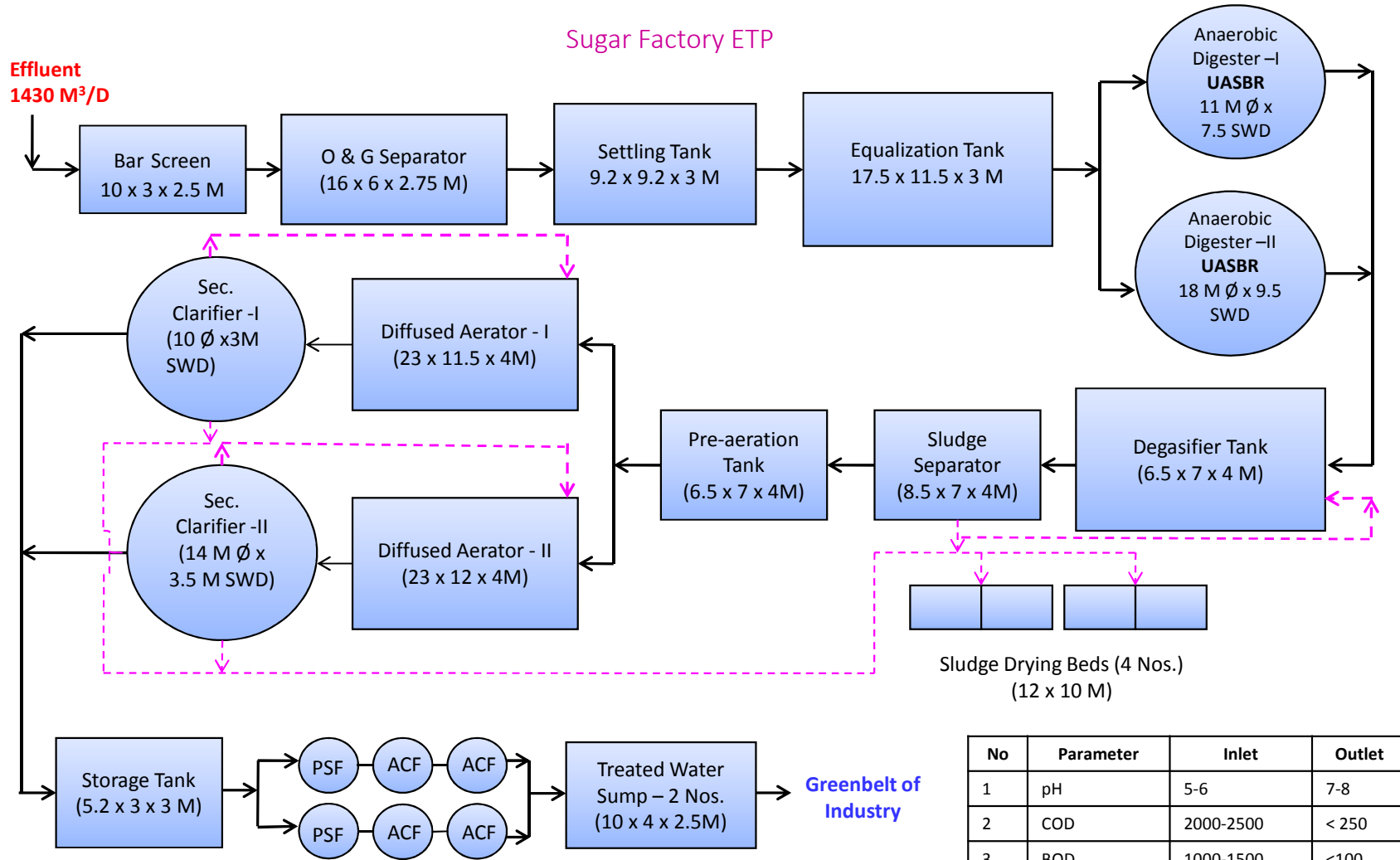
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<p><b>25</b></p>	<p><b>Condition No. 10</b> The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the 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.</p>	<p>Compliance strictly followed. The company is complying with all the environmental protection measures and safeguards and implemented all the recommendations made in EIA/EMP Details are given in table below-</p> <table border="1" data-bbox="873 457 1539 842"> <thead> <tr> <th data-bbox="873 457 954 562">No.</th> <th data-bbox="954 457 1230 562">Description</th> <th data-bbox="1230 457 1539 562">Annual O &amp; M (Rs. in Lakhs) April 2023 to September 2023</th> </tr> </thead> <tbody> <tr> <td data-bbox="873 562 954 594">1</td> <td data-bbox="954 562 1230 594">APC equipment</td> <td data-bbox="1230 562 1539 594">1.52</td> </tr> <tr> <td data-bbox="873 594 954 667">2</td> <td data-bbox="954 594 1230 667">E.T.P &amp; Upgradation</td> <td data-bbox="1230 594 1539 667">0.00</td> </tr> <tr> <td data-bbox="873 667 954 741">3</td> <td data-bbox="954 667 1230 741">Environmental Monitoring</td> <td data-bbox="1230 667 1539 741">0.00</td> </tr> <tr> <td data-bbox="873 741 954 814">4</td> <td data-bbox="954 741 1230 814">Green Belt Augmentation Plan</td> <td data-bbox="1230 741 1539 814">0.37</td> </tr> <tr> <td data-bbox="873 814 954 842"></td> <td data-bbox="954 814 1230 842"><b>Total</b></td> <td data-bbox="1230 814 1539 842"><b>35.26</b></td> </tr> </tbody> </table>	No.	Description	Annual O & M (Rs. in Lakhs) April 2023 to September 2023	1	APC equipment	1.52	2	E.T.P & Upgradation	0.00	3	Environmental Monitoring	0.00	4	Green Belt Augmentation Plan	0.37		<b>Total</b>	<b>35.26</b>
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4	Green Belt Augmentation Plan	0.37																		
	<b>Total</b>	<b>35.26</b>																		
<p><b>26</b></p>	<p><b>Condition No. 11</b> 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.</p>	<p>Copy of Environment Clearance Letter was submitted to Grampanchyat – Mouje Rendal &amp; Grampanchyat – Mouje Yalgud Taluka – Hatkalangale, Kolhapur on 05.12.2020. Also industry submitted granted EC to Hupari Nagar parishad &amp; Chief Executive officer Kolhapur on <b>05.12.2020</b>.The Acknowledgement copies of same are enclosed at <b>Annexure - XV</b></p>																		
<p><b>27</b></p>	<p><b>Condition No. 12</b> 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&amp;CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.</p>	<p>The industry regularly submits Six Monthly Compliance Report. Latest six-monthly compliance report was submitted for period <b>October 2022 to March 2023</b> on <b>22.05.2023</b>. An email copy of the Acknowledgement is enclosed at <b>Annexure - XVI</b> The same report is uploaded on company’s website <a href="http://www.jawaharsugar.com/">http://www.jawaharsugar.com/</a>.</p>																		

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
28	<p><b>Condition No. 13</b></p> <p>The environmental statement for each financial year ending 31<sup>st</sup> 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&amp;CC by e-mail.</p>	<p>The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V is submitted to the State Pollution Control Board as prescribed under the Environment (Protection) Rules 1986, and amended subsequently. The environmental statement for 2022-23 is enclosed at <b>Annexure - XVII</b></p>
29	<p><b>Condition No.14</b></p> <p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <a href="http://moef.nic.in">http://moef.nic.in</a>. 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.</p>	<p>On <b>05.12.2020</b>, the industry published newspaper advertisements in two local newspapers i.e. Marathi newspaper (Tarun Bharat) and English newspaper (The Time of India) which are widely circulated in the area. The advertisement copy is attached at <b>Annexure - XVIII</b></p>
30	<p><b>Condition No.15</b></p> <p>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</p>	<p>The date of financial closure in connection with the Industrial Project is 31<sup>st</sup>March.</p>
31	<p><b>Condition No. 16</b></p> <p>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.</p>	<p>Noted</p>

Annexure – I  
Photographs of ETP & STP



## Sugar Factory ETP



No	Parameter	Inlet	Outlet
1	pH	5-6	7-8
2	COD	2000-2500	< 250
3	BOD	1000-1500	<100
4	TDS	1800-2200	<2100
5	SS	250-300	<100

All parameters except pH are in mg/lit.

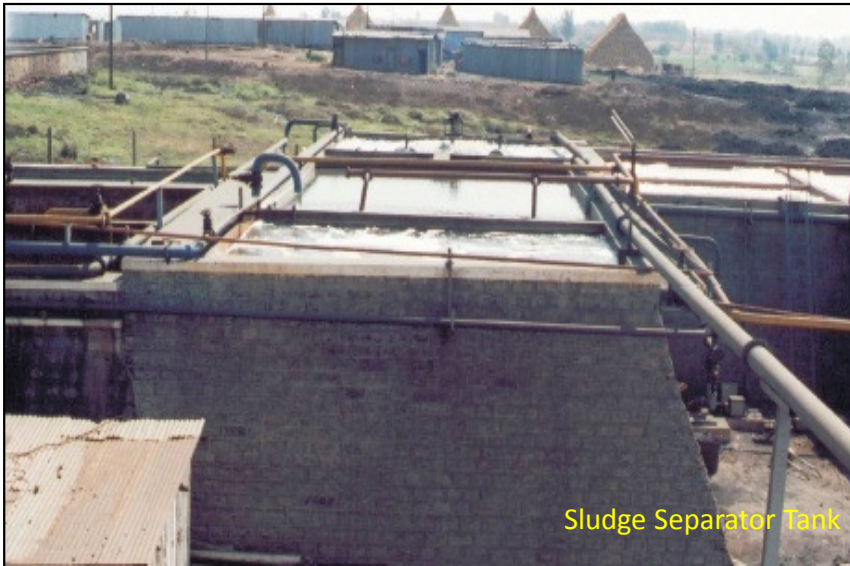
Photographs of Sugar Factory ETP



Oil Skimmer Unit



Floating Aerator



Sludge Separator Tank



Diffused Aeration Tank

Sugar Factory ETP



## Photographs of Sugar Factory ETP



Sand & Activated Carbon Filters



OCMS (Sensor)

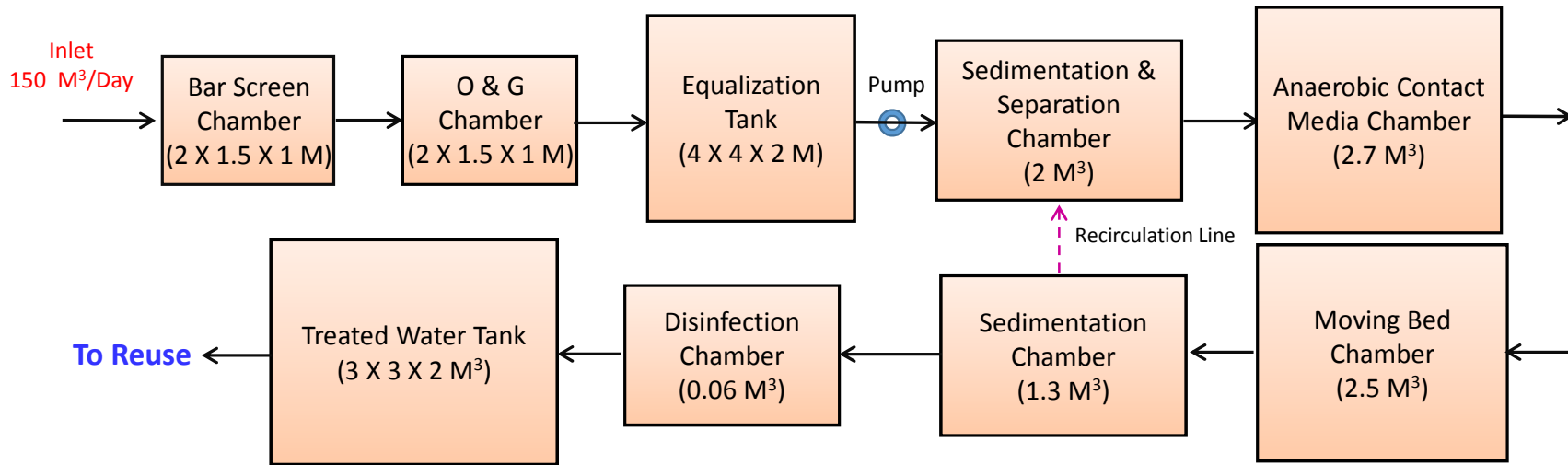


OCMS (Analyzer)



Flow Meter on Treated Effluent Pipe

## Sewage Treatment Plant

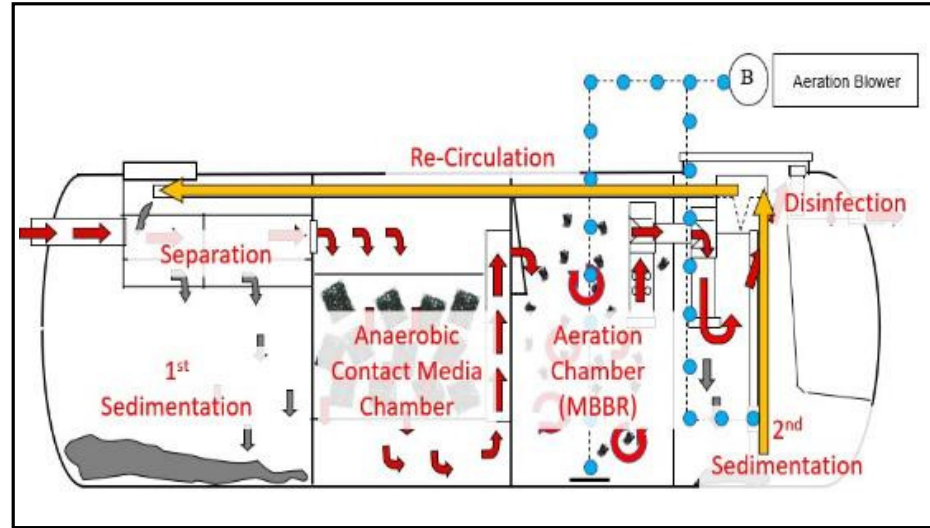


No	Parameter	Unit	Inlet	Outlet
1	pH	---	6.0 – 8.5	6.0 – 8.5
2	COD	mg/lit	400 – 500	< 50
3	BOD	mg/lit	250 – 300	< 10
4	TSS	mg/lit	150 - 250	< 30
5	O & G	mg/lit	20 - 30	< 10

- Expeditious treatment; easy maintenance
- Energy-saving
- Most updated automated manufacturing technology
- Stable high-quality FRP material



## Johkasou STP Treatment Process



Unit	MOC	Process Description
Separation & Sedimentation Chamber	FRP	Suspended Solids (SS) are separated.
Anaerobic Chamber	FRP	Organic matters are anaerobically decomposed.
Moving Bed Chamber	FRP	BOD content reduced by continuous aeration.
Sedimentation Chamber	FRP	SS are settled and clear treated water is obtained.
Disinfection Chamber	FRP	Treated Water is disinfected by Disinfection agent.
Sludge Re-circulation Arrangement	-	Sludge from 2 <sup>nd</sup> Sedimentation Chamber is recirculated to the 1 <sup>st</sup> Sedimentation Chamber.

Technological Frame Work
<ul style="list-style-type: none"> <li>• Technology approved by National Jal Jeevan Mission.</li> <li>• Technology Approved by CII (Confederation of Indian Industry)</li> <li>• No COVID-19 Trace observed in outlet water</li> </ul>

## Photographs of STP



Annexure - II  
Water lifting Permission



कोल्हापूर पाटबंधारे विभाग (उत्तर), कोल्हापूर.  
सिंचन भवन, ताराबाई पार्क, कोल्हापूर-४१६००३.

दूरध्वनी क्रमांक (०२३१) २६५४७३६, फॅक्स क्र. (०२३१) २६५४७३५, ईमेल eckidkop@gmail.com

जा.क्र.कोपावि(उ)/प्रशा-३/(३७)/विगरसिंचन/४९४/सन २०१८.

दिनांक :- ०४/०५/२०१८

प्रति,

कार्यकारी संचालक

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

विषय :- बिगर सिंचन द्विर्षिय करारनामा मंजूरी बाबत  
१/०५/२०१८ ते ३०/०४/२०२४

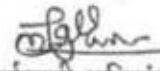
संदर्भ :- १) १) मा. मुख्य अभियंता (जस)जलसंपदा विभाग पुणे यांचे ज्ञापन पत्र जा  
क्र मु अ (जस)/(२९६/२०१७)/प्रशा-७/५१८८ दि. ०७/१२/२०१७  
२) पृष्ठांकन अधिक्षक अभियंता कोल्हापूर पाटबंधारे मंडळ कोल्हापूर को पा  
म /प्रशा-१/७८९१/२०१७ दि २२/१२/२०१७

उपरोक्त संदर्भिय पत्र क्र. १ अन्वये आपणास <sup>दुष्काळा</sup> ~~वेगवेगळ्या~~ प्रकल्पातून <sup>दुष्काळा</sup> ~~वेगवेगळ्या~~ नदितून पिण्यासाठी  
०.१२० दलघमी व औद्योगिक कारणासाठी ०.०४८ दलघमी असा एकूण ०.१६८० दलघमी इतका सुधारित पाणी  
कोटा मंजूर असून. आपण केलेल्या विनंती अर्जांनुसार आपला दि ०१/०५/२०१८ ते ३०/०४/२०२४ या कालावधीचा  
करारनामा खालील अटींच्या अधिन राहूनमंजूर 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 असून 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)/सिञ्य(महसूल)  
दि. २१/०४/२०१६ अन्वये आपल्या संस्थेचे सांडपाणी विसर्जित करताना सांडपाण्याची गुणवत्ता  
महाराष्ट्र प्रदूषण नियंत्रण मंडळाकडून दर महिन्याला तपासून प्रदूषण होत नसल्याबाबतचे  
प्रमाणपत्र जलसंपदा विभागास देणे बंधनकारक राहिल.

- ७) जर महाराष्ट्र प्रदुषण नियंत्रण मंडळाच्या विहित 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 भरून 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  $\pm 10\%$  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)सिंचन व्य (महसुल) दि ३ जून २०१५ नुसार आपल्या संस्थेने प्रत्यक्ष केलेला घरगुती व वाणिज्यिक /औद्योगिक 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 विहित प्रपत्रात सादर करणे बंधनकारक आहेसदर प्रत्यक्ष पाणी वापराची माहिती (प्रपत्र १ व प्रपत्र २)मध्ये उपलब्ध करुन न दिल्यासपाणी पट्टी आकारणी दंडनीय दराने करणेत येईल व सदर परिपत्रकातील सुचनेस अनुसरुन कार्यवाही करणेत येईल

स्थळ प्रत का.अ.यांनी मंजूर केली.

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

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

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

JAWAHAR SSSK LTD., HUPARI	
WW No. 92104	Date 31/5/19
Sent to CE, C&T	5
Authorised Signature	

**Annexure - III**  
**Health Checkup Report**

## Photographs of Health Care Facility



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

HEALTH REGISTER

From: 02/09/2022 To 01/09/2023

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

Company Name : KALLAPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.

Sr. No.	Emp. No.	Name	Age	Sex	Dept of employment 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 fitness or suspension issued to worker	Signature with gate certifying surgeon.
1	2304	MR. ASHOK S NALLAWADE	42	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
2	6023	MR. AKASH A BODHALE	30	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
3	1817	MR. JAWAHAR B MALI	47	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
4	7362	MR. MANOJ B KARAKE	31	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
5	1099	MR. KAMLAKAR B SUTAR	52	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
6	0334	MR. ARUN D PATI	58	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
7	2030	MR. SUNIL M KIRUNGI	32	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
8	1346	MR. PARGONDA N PATIL	51	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
9	7451	MR. HEMANT R PATIL	26	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
10	0853	MR. IQBAL A ATTAR	49	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
11	2066	MR. BHIMRAO M VAJANTRI	57	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
12	1721	MR. JAGDISH K PATIL	48	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
13	0308	MR. SARDAR S ROHILE	56	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
14	1733	MR. SARDAR S MOMIN	49	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
15	1401	MR. SANJAY A AKIWATE	52	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
16	2072	MR. VASANT A GHUNAKE	55	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
17	1684	MR. RIZWAN B BEDKALE	44	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
18	5999	MR. RAVI K KORAVI	33	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
19	7364	MR. MALLU B AMALE	24	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	

Dr. ARVIND A. MANE  
M.B.B.S., D.P.H.A.F.I.P. (MUMBAI)  
MMC REGD. NO. : 2010/10/3176

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

HEALTH REGISTER

From: 02/09/2022 To 01/09/2023

Certifying Surgeon

DR. ARVIND MANE

MBBS DPH AFIH, (Mumbai)

Company Name : KALLAPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.

Emp. No.	Name	Age	Sex	Dept of employment of present work	Date of leaving or transfer to other work	Reason for leaving Transfer of discharge	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work, state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness or suspension issued to worker	Signature with gate certifying surgeon.
1583	MR. UTTAM S MANGALE	52	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7308	MR. PANKAJ S SHINDE	23	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1234	MR. SURESH L POL	49	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7254	MR. PRATHAMESH CHOUGULE	23	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1719	MR. AMOL A PATIL	43	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1475	MR. SUNIL A TASHILDAR	53	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1777	MR. SANJAY K BADBADE	40	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1469	MR. ABHAY B PATIL	48	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1967	MR. TUKARAM M CHAVAN	39	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0073	MR. MAHAVIR A BARWADE	59	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1884	MR. SANTOSH A KOLI	37	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
6032	MR. PRAVIN B GURAV	30	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0948	MR. RAJENDRA KOLHAPURE	58	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1816	MR. DAYANAND A KAMBLE	40	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2028	MR. SOPAN B BIRJE	32	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0954	MR. BALU S MALI	52	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0623	MR. SHIVAJI K KOLI	52	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2134	MR. MOHAN J HEGADE	55	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0934	MR. DASHARATH N BAGAL	48	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	

**Dr. ARVIND A. MANE**  
 MB.B.S., D.P.H., F.I.H. (MUMBAI)  
 MMC REGD. NO.: 2010/10/3176  
 GOVT. OF INDIA-DGFASLI REGD. NO. 42388  
 Consultant Industrial Health Physician

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

**HEALTH REGISTER**

From: 02/09/2022 To 01/09/2023

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

Company Name : **KALLAPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.**

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9	0652	MR. VIRAPPA B BHANSE	56	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
10	0996	MR. RAKESH D MALI	49	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
11	6068	MR. KALPESH K KAPASE	33	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
12	0931	MR. SHAMRAO M MOHITE	54	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
13	7290	MR. BHUSHAN J NARWADE	26	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
14	1725	MR. BAPUSO D VANI	48	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
15	7230	MR. ADESH A YADAV	24	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
16	1687	MR. SHREANSH PATIL	50	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
17	1261	MR. SANDEEP B PATIL	42	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
18	2254	MR. SACHIN P KHOT	27	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
19	6012	MR. S M KOIK	29	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
20	2180	MR. RUTURAJ M INAMDAR	30	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
21	1569	MR. SUNIL S SHETKE	52	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
22	1694	MR. SHREEDHAR PATIL	47	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
23	1351	MR. AKBAR M MOKASHE	54	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
24	1834	MR. DAVAL M SHAIKH	52	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
25	2300	MR. VITHAL D RANDIVE	37	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
26	0968	MR. RAJENDRA D KORADE	53	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
27	1894	MR. GANGADHAR AADNANE	47	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	

**Dr. ARVIND A. MANE**  
M.B.B.S., D.P.H., F.I.H. (MUMBAI)  
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Consultant Industrial Health Physician

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

## HEALTH REGISTER

From: 02/09/2022 To 01/09/2023

Certifying Surgeon

DR. ARVIND MANE

MBBS DPH AFIH (Mumbai)

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Sr. No.	Emp. No.	Name	Age	Sex	Dept of employment of present work	Date of leaving or transfer to other work	Reason for leaving Transfer of discharge	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work, state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness of suspension issued to worker	Signature with gate certifying surgeon.
58	0915	MR. POPAT D KAMBLE	57	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
59	7019	MR. BALASO B KOLAJ	36	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
60	7026	MR. ABHIJIT B PATIL	27	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
61	1367	MR. KIRAN I BHARMAL	47	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
62	1071	MR. KUBER S GOURAI	54	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
63	0994	MR. LAXMAN S LALI	51	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
64	0936	MR. SANJAY B JADHAV	55	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
65	1692	MR. MUSTAK A NAYANI	51	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
66	7001	MR. PRAVIN P PATIL	29	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
67	1823	MR. ARVIND P KAKADE	52	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
68	1726	MR. SUNIL B AITWADE	43	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
69	7531	MR. S M MHETRE	24	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
70	2247	MR. ANIL D SUTAR	33	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
71	6009	MR. PAVANKUMAR B PATIL	31	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
72	1819	MR. SHANKAR S GAWADE	45	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
73	7542	MR. ANURAGH A PATIL	21	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
74	1978	MR. FIROJ M KALAWANT	36	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
75	0951	MR. MAHADEV S PATIL	59	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
76	7514	MR. SAJID B JAMADAR	27	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	

Dr. ARVIND A. MANE

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

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Consultant Industrial Health Physician



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

**HEALTH REGISTER**

From: 02/09/2022 To 01/09/2023

Certifying Surgeon

DR.ARVIND MANE

MBBS DPH AFIH.(Mumbai)

Company Name : **KALLAPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.**

Emp. No.	Name	Age	Sex	Dept of employment of present work	Date of leaving or transfer to other work	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 suspension issued to worker	Signature with gate certifying surgeon.
0637	MR. AJJI G DALWADE	49	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
6011	MR. DADASO S KUMBHAR	36	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1665	MR. ABHIJEET S KUMBHAR	42	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7005	MR. NITIN N SHINDE	28	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7010	MR. UTTAM K KHOT	32	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1896	MR. SANJAY G KAMBLE	58	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1437	MR. SADIK I MUJAWAR	53	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2208	MR. SWAPANIL V KHOT	29	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1091	MR. BALWANT A PATIL	56	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2027	MR. SANJAY P KURALE	36	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7023	MR. R R FIRAGANAVAR	31	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
6042	MR. SURAJ D PATIL	30	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7139	MR. AKBAR B FARID	29	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1454	MR. ARUN A MALAGE	47	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0998	MR. KUNTINATH VANDURE	51	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2132	MR. RAMESH A BANNE	35	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1832	MR. AMAR B PATIL	45	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1444	MR. PRAKASH M SHENAVI	49	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2294	MR. SACHIN A KAMBLE	33	M	-	NA	NA			02/09/2022	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-DGFASLI REGD. NO.-02388  
Consultant Industrial Health Physician

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

HEALTH REGISTER

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

From: 02/09/2022 To 01/09/2023

any Name : KALLAPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.

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7040	MR. SULEMAN Y DADIWALE	26	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7048	MR. SANTOSH PATIL	32	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1655	MR. VINOD KHOT	42	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7509	MR. PRASHANT KHATAVKAR	26	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7498	MR. V D HANCHNALE	24	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7154	MR. KASHINATH MUDHALE	23	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7140	MR. SHIVAJI S MUDHALE	26	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1018	MR. BAPUSO B DHONGADE	53	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1240	MR. ARUN K PATIL	45	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2170	MR. SURAJ SHIRDHONE	29	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2285	MR. VAIBHAV A MANE	26	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7469	MR. CHANDRAKANT PUJARI	25	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0607	MR. B R KHOT	59	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7365	MR. PRASAD V BADIGER	26	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7134	MR. PAVANKUMAR A HEGADE	24	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7073	MR. TUSHAR PATIL	28	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7146	MR. AVINASH M VASWADE	30	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1652	MR. B A MAYAPPANAWAR	48	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2187	MR. RAJENDRA S NIRMALE	44	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	

**Dr. ARVIND A. MANE**  
M.B.B.S., D.P.H.A.F.I.H. (MUMBAI)  
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GOVT. OF INDIA-DGFASLI REGD. NO.-02388  
Consultant Industrial Health Physician

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15	7052	MR. GOVIND M LAWATE	28	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
16	2091	MR. BHARAT R PATIL	52	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
17	7173	MR. BAJIRAO B PATIL	48	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
18	7383	MR. MUSTAFA A MUJAWAR	23	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
19	2217	MR. AVINASH J DONGALE	35	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
20	7127	MR. SURAJ S R	30	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
21	7403	MR. SOURABH R CHOUGULE	24	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
22	2275	MR. YASHWANT K JADHAV	42	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
23	7487	MR. RUSHIKESH S GAJARE	22	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
24	1228	MR. SHASHIKANT A SHINDE	45	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
25	1710	MR. SANDEEP N MAGDUM	44	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
26	2146	MR. ANIL N MAGDUM	30	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
27	1922	MR. SADASHIV S PATIL	45	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
28	1170	MR. RAVINDRA B PATIL	58	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
29	7131	MR. SUJIT S RANGOLI	34	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
30	0426	MR. ANIL B DESHPANDE	54	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
31	1944	MR. AJIT S MANE	44	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
32	7172	MR. NANDKUMAR KAMBLE	46	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
33	7135	MR. SHAMRAO V DAVAR	53	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	

**Dr. ARVIND A. MANE**  
M.B.B.S., D.P.H., A.F.I.H. (MUMBAI)  
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134	7147	MR. NITIN S MITHARI	40	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
135	1790	MR. BAHUBALI M KESTE	42	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
136	0359	MR. SHRIKANT S KHOT	54	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
137	0609	MR. MARUTI M JADHAV	48	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
138	2080	MR. SATISH B DANAGAR	44	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
139	0463	MR. DEVGONDA B MAGDUM	53	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
140	2292	MR. PRAKASH R KARADE	45	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
141	0643	MR. SANJAY T BHOSALE	53	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
142	1841	MR. M B SURYAWANSHI	48	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
143	7144	MR. PRAKASH N KAMBLE	52	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
144	7136	MR. ANIL S KAMBLE	55	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
145	1533	MR. NABILAL B MUJAWAR	39	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
146	1800	MR. J B MADBHAVE	49	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
147	1458	MR. SANJAY A MURABATTE	54	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
148	0656	MR. BHIMRAO D KHOT	49	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
149	1387	MR. RAJKUMAR S MAGDUM	54	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
150	1600	MR. MAHAVIR T PATIL	59	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
151	1718	MR. SANJAY A CHAVARE	45	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
152	0052	MR. VISHWAS L PATIL	56	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	

**Dr. ARVIND A. MANE**  
MB.B.S., D.P.H.A.F.I.H. (MUMBAI)  
MMC REGD. NO. 2010/10/3176  
GOVT. OF INDIA-DGFASLI REGD. NO.-02386  
Consultant Industrial Health Physician

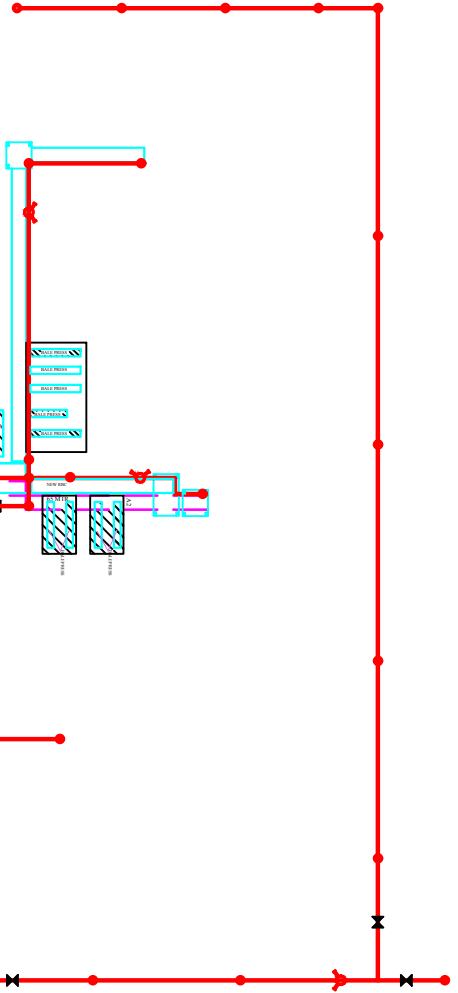
Annexure – IV  
Photographs of Firefighting  
&  
Mock drill

Photographs of firefighting arrangements



Photographs of Mock Drills

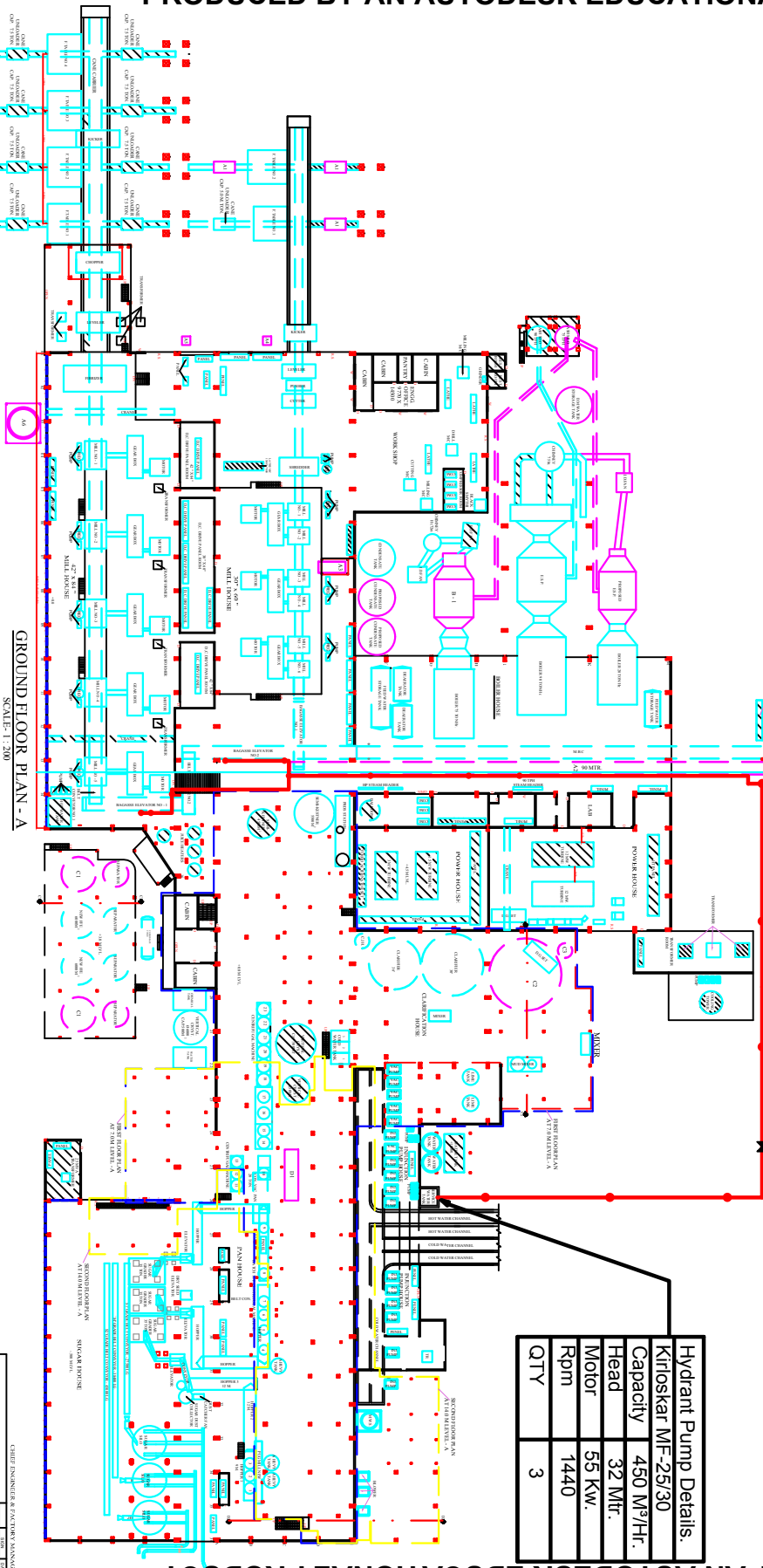




S/N/O	PARTICULARS	QTY
1	HYDRANT POINTS	35
2	VALVES	5
3	HYDRANT MONITORS	3
4	HYDRANT PUMPS	3

THE HYDRANT MONITOR IS SHOWN AS SWHITE COLOUR	
FIRE HYDRANT MONITOR IS SHOWN AS RED COLOUR	
FIRE HYDRANT LINE IS SHOWN AS RED COLOUR	
FIRE HYDRANT VALVE IS SHOWN AS SWHITE COLOUR	

Hydrant Pump Details.	
Kiroskar MF-25/30	
Capacity	450 M <sup>3</sup> /HR.
Head	32 Mtr.
Motor	55 KW.
Rpm	1440
QTY	3



GROUND FLOOR PLAN - A  
SCALE: 1:200

CHIEF ENGINEER, ELECTRICAL ENGINEER

**JAWAHAR SSS&KLTD.**

TEL: 011-26104100

WWW.JAWAHARSS&K.COM

SCALE: 1:200

DATE: 01/01/2024

PROJECT NO: 01/01/2024

PROJECT TITLE: FIRE HYDRANT SYSTEM

PROJECT LOCATION: 01/01/2024

PROJECT STATUS: 01/01/2024

PROJECT VALUE: 01/01/2024

PROJECT TYPE: 01/01/2024

PROJECT PHASE: 01/01/2024

PROJECT DESCRIPTION: 01/01/2024

PROJECT OBJECTIVES: 01/01/2024

PROJECT SCOPE: 01/01/2024

PROJECT RISK: 01/01/2024

PROJECT COMPLIANCE: 01/01/2024

PROJECT STAKEHOLDERS: 01/01/2024

PROJECT DELIVERABLES: 01/01/2024

PROJECT MILESTONES: 01/01/2024

PROJECT BUDGET: 01/01/2024

PROJECT RESOURCES: 01/01/2024

PROJECT CHALLENGES: 01/01/2024

PROJECT OPPORTUNITIES: 01/01/2024

PROJECT RISKS: 01/01/2024

PROJECT MITIGATIONS: 01/01/2024

PROJECT SUCCESS: 01/01/2024

PROJECT REVIEW: 01/01/2024

PROJECT CLOSURE: 01/01/2024



Annexure – V  
Photographs of vermi-composting

Photographs of Vermicomposting



Annexure – VI  
Photographs of Greenbelt  
&  
List of plants

Existing Green Belt



Existing Green Belt



Existing Green Belt



Existing Green Belt













**KALLAPPANNA AWADE JAWAHAR S.S.S. KARKHANA LTD.,**  
Hupari -Yalgud, Tal-Hatkanangale, Dist- Kolhapur.(Maharastra)

Date: 12/10/2023

**Karkhana site Tree Plantation Details**

Sr.No	Particulars	Nos of Tree
<b>A</b>	<b>Fruit Plant</b>	
1.	Coconut	603
2.	Mango	350
3.	Chikku	156
	<b>Total</b>	<b>1109</b>
<b>B</b>	<b>Forest Tree</b>	
1.	Rain Tree	3700
2.	Cassia	1752
3.	Chinch	78
4.	Kadaumb	17
5.	Subabhul	830
6.	Badam	46
7.	Saptparni	32
8.	Chandan	45
9.	Sag	14
10.	Suru	1000
11.	Nimb & Others	3798
12.	Tubobia	12
13.	Palas	14
14.	Gorham Chinch	558
15.	Silver Oak	2000
16.	Spathodia	36
17.	Wad	70
18.	Pimpal	125
19.	Nile Mohar	42
20.	Bahawa	140
21.	Gulmohar	409
22.	Kanchan	133
23.	Nilgiri	3930
24.	Umber	62
25.	Phanas	15
26.	Bel	05
27.	Australian babul	300
30.	Gul bhendi	507
31.	Karanj	2239
32.	Jambhul	100
33.	Paletoforum	250
34.	Bambu	30634
35.	Katesawar	320
	<b>Total</b>	<b>53213</b>

Sr.No	Particulars	Nos of Plant
<b>C</b>	<b>Decorative Tree</b>	
1.	Bottal Palm	90
2.	Ashoka	703
3.	Thuja	10
4.	Ficus	82
5.	Boganwel	1440
6.	Exora	21
7.	Chapha	53
8.	Areka Palm	4316
	<b>Total</b>	<b>6715</b>
<b>D</b>	<b>Flower Tree</b>	
1.	Rose	200
2.	Other Flower Tree	4726
3.	Pots Tree	306
4.	Kaneri	2670
5.	Shankasur	340
	<b>Total</b>	<b>8242</b>

<b>Total Summary of tree plantation-</b>		
A	Fruit Tree	1109
B	Forest Tree	53213
C	Decorative Tree	6715
D	Flower Tree	8242
	<b>Total Tree Plantation</b>	<b>69279</b>

  
Chief Agri. Officer

**KALLAPPANNA AWADE JAWAHAR S.S.S. KARKHANA LTD.,**  
Hupari -Yalgud, Tal-Hatkanangale, Dist- Kolhapur.(Maharastra)

Date: 12/10/2023

**AREAWISE TREE PLANTATION INFORMATION**

<b>Sr. No</b>	<b>Survey No.</b>	<b>Place</b>	<b>Area (Acres)</b>
1	1258	Harvesting workers staying yard	22.36
2	315/8,9	Colony area	07.00
3	315/11	Cane yard west side area	4.30
4	315/9,10	Office backside Mango & Rose plantation area	3.00
5	315/10	Stage side area	3.11
6	315/9,925/9	Main Road both sides area	3.13
7	315/14	New Ash Yard	1.13
8	315/14	Hamaal Shed (Eucalyptus.tree plantation)	4.26
9	315/14	Hamaal Shed (Forest Trees)	5.16
10	315/11	Karkhana Main Gate area	0.03
11	315/14	Switch Yard/Bullock Cart yard Area	0.22
12	315/11	Behind Godown No. 13 Area	3.10
13	315/7	Petrol Pump Area	0.05
14	315/8	Bamboo in Compost yard	4.25
15	315/7,8,9	Bene Plot	13.30
16	925/9	Flower Bed	0.11
17	315/9	Guest House, Board Room Area	0.12
18	925/9	Karanj, Chikoo, Mango plantation area	4.02
19	925/9	Near Mhasoba Temple Area	7.00
20	925/9,315/9	Rajrajeshwari Temple to Bene plot roadside plantation (Coconut, Ashok trees)	1.31
21	925/9	Canal side Coconut, Ashok tree	1.08
22	925/9, 315/9	Karkhana outside Gate Cross Bed Area	0.08
23	925/9	Rajrajeshwari Temple Area	2.10
24	925/9	Caneyard to Rajrajeshwari Temple Roadside plantation	1.22
25	925/9	Tractor Yard area	3.06
		<b>Total</b>	<b>98.30</b>

  
Chief Agri. Officer

## Annexure – VII

### Tree Canopy Report





A Brief Report on  
**GREEN COVER ASSESSMENT**  
through

**Canopy Mapping and Tree Census Study**  
Of

**Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. (JSSSKL) ,**  
Shri Kallappa Anna Awadenagar, Hupari - Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, MS.



Prepared By



**Equinox Environments (I) Pvt. Ltd.**

Environmental, Civil & Chemical Engineers, Consultants and Analysts, Kolhapur (MS)

QCI- NABET & ISO 9001 : 2015 Accredited Organization

Email : [eia@equinoxenvi.com](mailto:eia@equinoxenvi.com), [projects@equinoxenvi.com](mailto:projects@equinoxenvi.com)

**August 2023**

## Preamble

Green Cover is nothing but the above ground biomass in the form of vegetation at any area. Trees are amongst the most significant element of any landscape, both due to biomass and diversity and are important sinks for atmospheric carbon i.e., carbon dioxide, since 50% of their standing biomass is carbon itself. Industrial advancement has resulted in the emission of carbon in the ecosystem and there is an urgent need to address environmental issues related to them. Therefore, green belts are recommended for containment of air pollution in human environment, especially in Industrial and urban areas. Green belt as a back-up to technological pollution abatement measures, could substantially reduce pollution hazard; where green plants form a surface capable of sorbing air pollutants and forming sinks for pollutants. Leaves with their vast area in a tree crown, sorbs pollutants on their surface and often incorporate in metabolic stream, thus effectively reduce their concentrations in the ambient air and the air gets purified. Plants grown in such a way as to function as pollutant sinks especially carbon sequesters, are collectively referred to as green belts.

Tree Crown or Canopy, is the proportion of the area covered by the vertical projection of the tree crowns. In biology, the canopy is the aboveground portion of a tree, plant or crop, formed by the collection of individual crowns. Canopy cover is the layer formed by the branches and crowns of plants or trees. The cover can be continuous, as in primary forests, or discontinuous; with gaps, as in orchards. Canopy cover is measured as the proportion of a fixed area of the ground covered by tree crowns. The canopy cover will be determined by the tree species, as they have different crown sizes, shapes, and heights.

Early observations of canopies were made from the ground using binoculars or by examining fallen material. In some cases, unconventional methods such as chairs suspended on vines or hot-air dirigibles were used. Further, adapted mountaineering gear, has made canopy observation significantly easier and more accurate, allowed for longer and more collaborative work, and broadened the scope of canopy study. Now, the modern technology and instruments has made the measurements in the field easy and are affordable, portable, and handheld. There are many methods to measure canopy cover and accurate mapping and monitoring canopy cover using Drone Survey data is the best alternative way for satellite data. Drone photography and digital analysis uses the fisheye lens approach and

produces the most accurate measurements. It is suitable for tree level measurements of crown architecture, dimensions and density. Canopy cover density classes maps are the area-based parameter where the percentage of canopy cover of trees were computed based on the crown area of trees within the industrial plot area.

In most cases, field measurements by 'Tree Census' are needed for testing and validating all remote sensing methods and it is the only way to define more accurate vertical projection of a tree. Tree Census technique includes individual count of a tree and documentation of the basal area through girth or diameter at breast level, tree height and canopy diameter along with the species name. Carbon sequestration estimation is the main purpose of the measurement of green cover. With the help of statistical models and respective ratios and conversion factors, one can derive the biomass of a tree, current sequestered carbon and future potential, which is the main purpose to develop a green belt around any industrial complex. A plant, by habit, having woody stem or trunk with minimum girth of 10 cm at chest level and has a height of 2 m above the ground level. For better preservation, protection and plantation of trees, a census of trees should be carried out once in every five years in urban areas and apparently it should be more frequent in case of industrial areas.

Green Cover Measurement through Canopy Mapping & Tree Census acts as an indicator of following factors for both natural as well as cultivated vegetation.

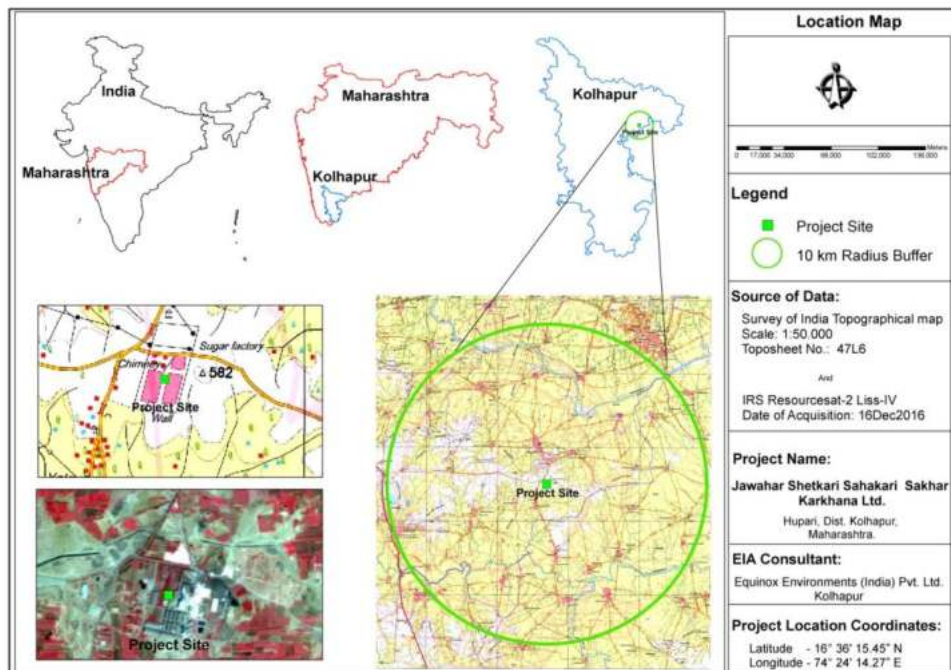
- The green cover is dependent on the health of a tree, vegetation diversity, nutrition, water access, soil characteristics, diseases, pest infestations and stress.
- The efficiency of fertilization, irrigation, and pruning methods affect the canopy cover and biomass of tree, so its measurement sheds light on these factors as well.
- Canopy cover is also used to study the effects of pollution hazards, fire & microclimate.

The present report is a brief summarisation of a 'Green Cover Assessment' of industrial campus of **M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. (JSSSKL), Kolhapur**, through 'Canopy Mapping and Tree Census' study. The key purpose of this study is to estimate the current status of existing greenbelt, which will help to plan the proposed greenbelt development and its comprehensive management program.

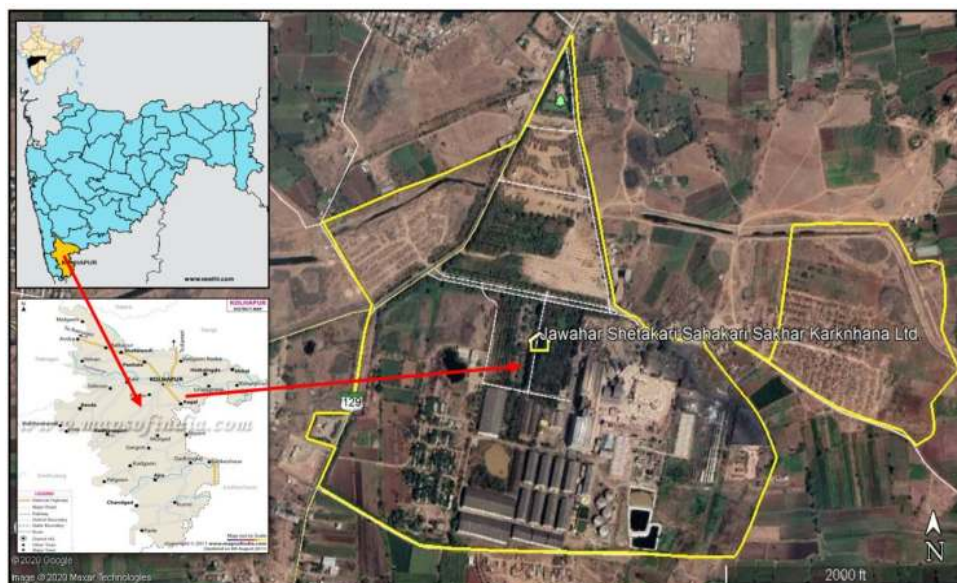
## Material & Methodology

**Study Area:** The project site of M/s Jawahar Shetkari Sahakari Sakhar Karkhana Limited (JSSSKL), is located at Shri Kallappa Awade nagar, Hupari-Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur, Maharashtra. It is around 30 km from Kolhapur city. It is an industrial complex of sugar factory with capacity 16,000 TPD, 28.5 MW Co-gen plant and proposed 100 KLPD Distillery. The total area of the industry is 99.57 Ha. Geographical location of the site is 74°24'14.27" E longitude and 16°36'15.45"N latitude and 587 M above MSL.

**Fig 1 Location Map of the JSSSKL**



**Fig 2 Google Earth Map of the JSSSKL**



**Methodology:** Aerial imagery provides spectral (colour) information that allows trees to be distinguished from objects such as buildings and roads. Initially, a GIS base map and shapefile were prepared using the KML and plot layout of the industry. This map is used to set the Area of Interest (AOI) for the drone survey so it gives clarity and accuracy at the time of field work.

DJI's advanced technology Drone 'KAMBILL-DJI-INSPIRE-1 - Remotely Controlled Aircraft with X3 Camera' was used for the survey. The camera of the drone can take composite image with three bands along with digital elevation details and laser cloud points. Multispectral imaging sensors captures red, green, and blue (RGB) spectral information which is useful for image classification and to estimate vegetation canopy cover. The drone survey was carried out on 8<sup>th</sup> August 2023. The drone can fly at a constant level up to the height of 150 m. Since the chimney height is about 80 m, the drone survey was carried out at a constant level of 100 m above ground level. Differential GPS system 'KAM-DGPS Base Station' was fitted at centre of plot area and the geographical coordinates of the area was obtained. Coordinates of the DGPS point are - Latitude: 16° 36' 20.03" N, Longitude: 74° 24' 12.86" E and Ground level: 587.8 m w.r.t MSL.

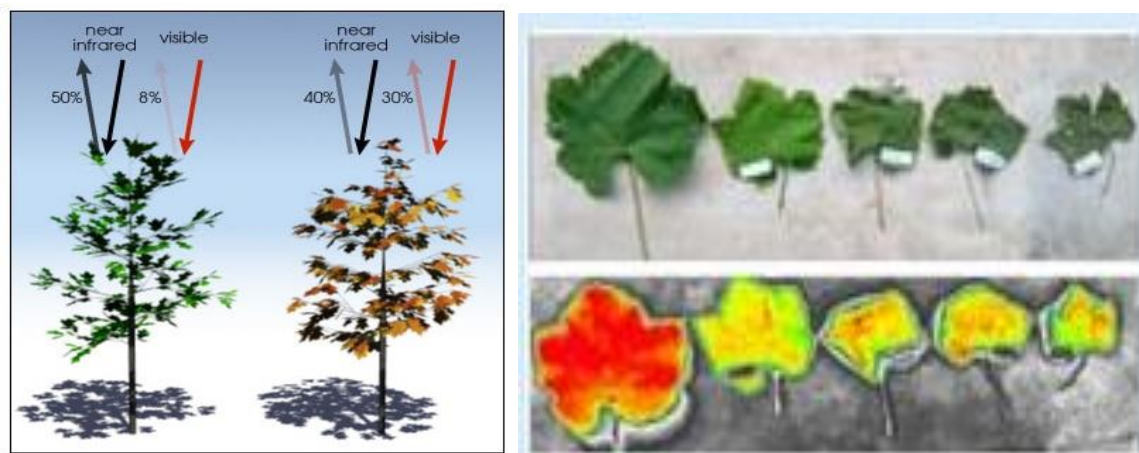
**Fig 3 The Image of the Drone and DGPS used for the Canopy Survey**



The data captured by the drone was downloaded, checked for clarity and accuracy and further processed using Pix4D software. An ortho-mosaic image was created using the drone data. A Digital Elevation Model was produced using ArcGIS software. ArcGIS generates Canopy map using the above processed data. Classification process and area computation of the canopy image was done using ERDAS software.

Standard 'Normalized Difference Vegetation Index (NDVI) technique' is used to measure the vegetation cover at study area. The difference between near-infrared (which vegetation strongly reflects) and red light (which vegetation absorbs) quantifies the vegetation cover. NDVI uses the NIR and red channels in its formulation. Normally, Healthy vegetation (chlorophyll) reflects more near-infrared (NIR) and green light compared to other wavelengths, but it absorbs more red and blue light. If you have low reflectance (or low values) in the red channel and high reflectance in the NIR channel, this will yield a high NDVI value and vice versa. When you have high NDVI values, you have healthier vegetation. When you have low NDVI, you have less or no vegetation.

**Fig 4 High and Low Reflectance of NIR and VR Lights**

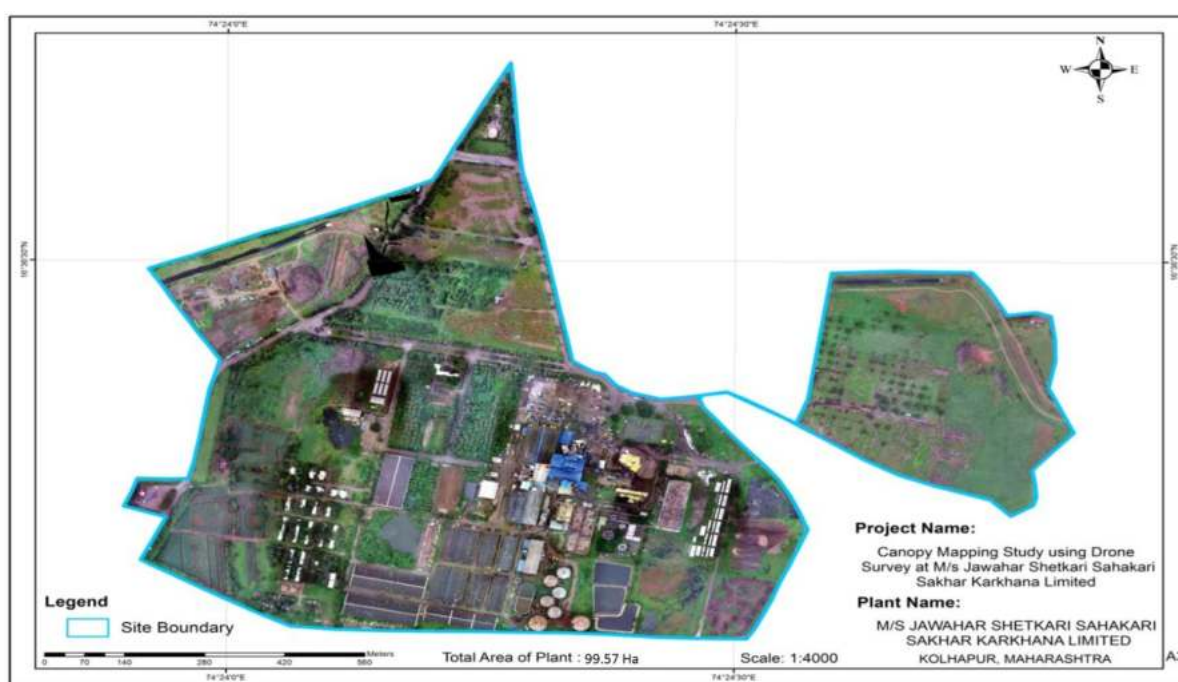


Since trees and shrubs can appear spectrally similar or be obscured by shadow, tree census was carried out to enhance the accuracy of tree mapping, providing more precise data including tree count, size, and species distribution. Attempt was made to count all the possible trees from the study area. Some inaccessible locations on project site were surveyed by using strategic representative belt transects and the data was extrapolated to the areas where it was not possible to reach. Most of the tree species encountered were identified on field on the basis of their morphological characters - shape, size, arrangement, texture, odour and colour of bark, leaves, flower and fruit. The Height and Girth of tree gives the volume of the tree. By using specific wood density and ratio factors for carbon and oxygen, total biomass, carbon stock, sequestered carbon and released oxygen by these trees were calculated.

## Observations & Results

Ortho-Rectified Composite Image of industry plant area was created with three bands, i.e., Red, Blue and Green. The composite image shows very clear patterns of green belt area along with the industrial plant buildings, grass lands and open areas. When you receive an unrectified image, there is distortion across the image caused by distortions from the sensor and the earth's terrain. After imagery has been orthorectified, it can be used within a GIS software and can be accurately overlaid with other data layers.

**Fig 5 Ortho-Rectified Composite Image of the JSSSKL**



The image has been processed to apply corrections for optical distortions from the sensor system, and apparent changes in the position of ground objects caused by the perspective of the sensor view angle and ground terrain. This ortho-rectified composite image is accurately georeferenced and further used to generate the canopy map of the area. The NDVI technique was systematically adopted to create the vegetation canopy map from the ortho rectified composite image.

Although there are several vegetation indices, one of the most widely used is the Normalized Difference Vegetation Index (NDVI). Areas of barren rock, sand, or snow usually show very low NDVI values (for example, 0.1 or less). Sparse vegetation such as shrubs and

grasslands or senescing crops may result in moderate NDVI values (approximately 0.2 to 0.5). High NDVI values (approximately 0.6 to 0.9) correspond to dense vegetation.

**Fig 6 Canopy Map with Classification Area details of the JSSSKL**



The above canopy map shows four types of classes: 1) Tree canopy area, 2) Plant area, 3) Open Ground and 4) Grass land. The index count and area of each class were computed in GIS software.

**Table 1 Index Count and Area of the Four Classes by NDVI Technique**

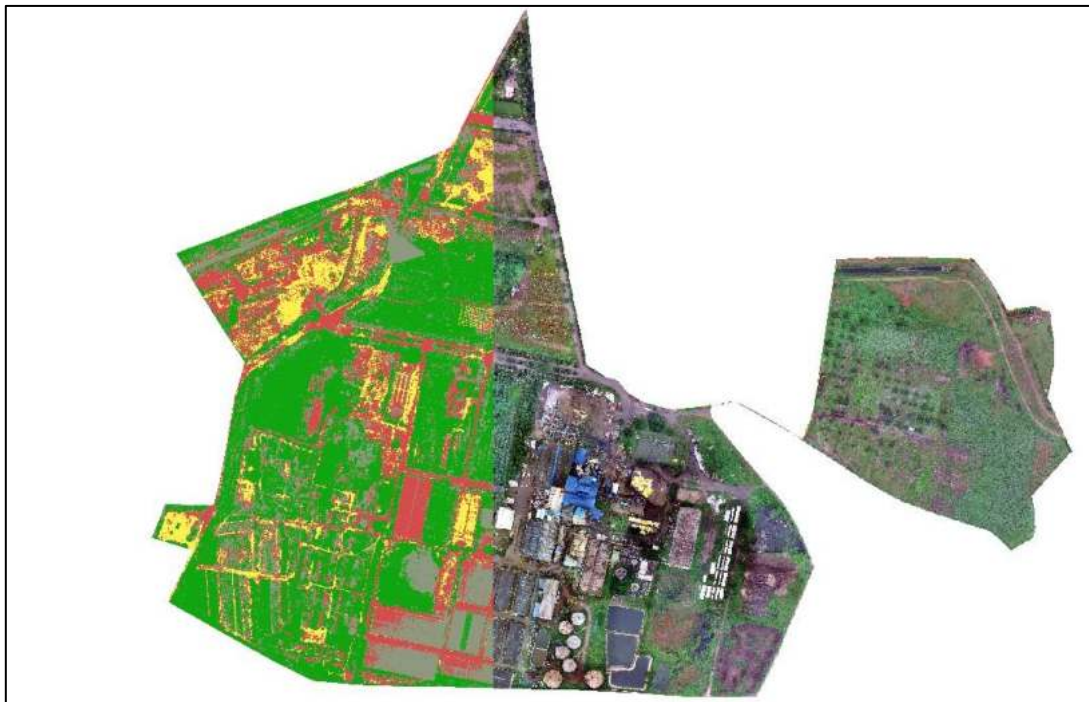
Sr. No.	Class	Count	Area in Ha
1	Tree Canopy	200668369	43.45
2	Construction Area	93349881	20.21
3	Open Ground	110219681	23.86
4	Grass Land	55761728	12.05
	<b>Total</b>		<b>99.57</b>

The table shows that out of the total area of 99.57 Ha of the four classes, tree canopy is 43.45 Ha, construction area is 20.21 Ha, open ground is 23.86 Ha and grass land is 12.05 Ha.



Therefore, the percentage of tree cover is 43.64%. The canopy map was validated with the composite image and found to be accurate as shown below.

**Fig 7 The Image Validation of the Canopy Map of JSSSKL**



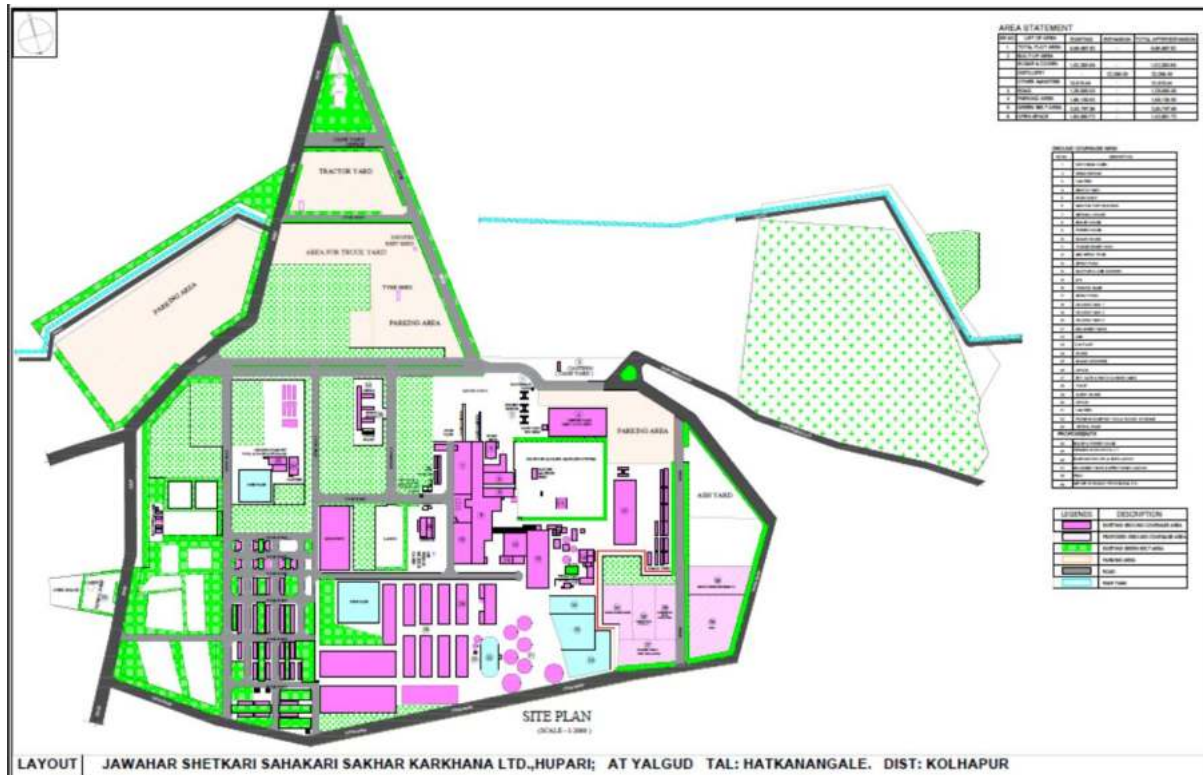
Grass lands are not included in the tree canopy area. The trees include in the above-mentioned canopy area are from height 1 m to 20 m. four groups were made as per the height of the trees and canopy area of each group is calculated.

**Table 2 Height wise canopy area of the trees in JSSSKL**

Height of Tree in M	Canopy Area of Trees in Sq. M	Proportion with Total Canopy Area
1 m to 5 m	44,890	10%
5 m to 10 m	79,299	18%
10 m to 15 m	1,63,800	38%
15 m to 20 m	1,46,461	34%
<b>Total</b>	<b>4,34,450 Sqm</b>	<b>100%</b>

The table shows that major proportion of the canopy area is of good height which indicates that the green belt developed at industry is in healthy condition. Here, some shrubs and bushes were also encompassed in the canopy cover. The tree census data further elaborates the status of the existing green belt at JSSSKL.

**Fig 8 Plot Layout of the integrated complex of JSSSKL**



The total plot area of 99.57 Ha was surveyed for the green cover inventory. Total 69,279 numbers of trees with more than 10 cm girth and height more than 4 ft have been enumerated. About 41 species have been identified during the census. It shows a rich diversity on the project complex.

**Total biomass:** Biomass, in ecology, is the mass of living biological organisms in a given area or ecosystem at a given time. Biomass can refer to species biomass, which is the mass of one or more species, or to community biomass, which is the mass of all species in the community. It can include microorganisms, plants or animals. The mass can be expressed as the average mass per unit area, or as the total mass in the community. 43,606.5 tons of total biomass of woody vegetation have been recorded, during the current tree census.

**Carbon stock:** Forests and trees act as natural carbon stores, but this carbon is released when the trees are felled and the area deforested. The amount of carbon stored within an area of land varies according to the type of vegetation cover. 747.74 tons of total carbon stock is present at the project complex.

**Carbon Sequestration (C. S.):** Carbon sequestration describes long-term storage of carbon dioxide or other forms of carbon to either mitigate or defer global warming and avoid dangerous

climate change. It has been proposed as a way to slow the atmospheric and marine accumulation of greenhouse gases, which are released by burning fossil fuels. Vegetation carbon pool having the potential of 560 Pg (Pg: Petagram= billion ton) of carbon storage globally. In the current study the focus is given on the assessment of existing carbon stock stored in JSSSKL in the form of woody vegetation by enumerating every tree species. Overall, 80017.80 tons of CO<sub>2</sub> has captured and stored by the woody plants present in the industry complex. A single tree consumes 0.0218 tons of CO<sub>2</sub> approximately annually consequently, as the campus possess 69,279 mature woody plants 1510.28 tons of CO<sub>2</sub> is consumed yearly by all woody vegetation on the industry complex.

**Oxygen released:** Woody vegetation in JSSSKL complex has released 2,13,647.53 tons of oxygen in their lifetime till date. Released oxygen is directly proportional to CO<sub>2</sub> sequestrate in the ratio of 32/12 thus it is supposed to release 5,70,438.90 kg of oxygen annually. It is assumed that a single tree supports oxygen demand of two people for their life. Thus, the 69,279-woody vegetation in college campus are supporting people around the campus.









Annexure –VIII  
Photographs of CER & CSR  
Revised Time bound Action  
plan













कुरुंदवाड : जवाहर कारखान्यामार्फत सभासद शेतकरी सुभाष गजरे यांना धनादेश प्रदान करताना संचालक सुकुमार किनिगे व मान्यवर.

## 'जवाहर'मार्फत हृदय शस्त्रक्रियेसाठी सुभाष गजरे यांना ५० हजारांची मदत

कुरुंदवाड : जवाहर कारखान्याकडे नियमित ऊस पुरवठा करणाऱ्या ऊस उत्पादक सभासदांना निधीतून वैद्यकीय अर्थसहाय्य योजनेतर्गत हृदय विकार, कॅन्सर, मूत्रपिंड, मोतीबिंदू, काचबिंदू या रोगावरील उपचाराकरिता आर्थिक मदत दिली जाते. या योजनेमधून सुभाष वसंत गजरे (रा. कागवाड, जि. बेळगाव) यांना हृदयविकारावरील उपचाराकरिता ५० हजारांचा धनादेश देण्यात आला. यावेळी जवाहरचे संचालक सुकुमार किनिगे, ओव्हरसियर असलम तांबोळी, शेती मदतनीस किरण कोले, राजू खोत, मारुती परीट, विजय काणे व ऊस उत्पादक शेतकरी उपस्थित होते.



## भोज येथे जवाहर कारखान्याच्या वतीने वैद्यकीय उपचारासाठी आर्थिक मदतीचा धनादेश वितरण

कारदगा (हिंदूसम्राट प्रतिनिधी रंगराव बन्ने यांजकडून):-हूपरी येथील जवाहर शेतकरी साखर कारखान्याच्यावतीने भोज येथील ऊस उत्पादक सभासद धन्याकुमार भिमु चौगुले(पांगरे)यांना हृदय विकाराच्या उपचारासाठी 50 हजार रुपयेचा धनादेश कारखान्याचे संचालक शीतल अमनावर व सुमेरु पाटील यांच्या हस्ते भोज सर्कल ऑफिसमध्ये वितरण करण्यात आला. कारखान्याकडे नियमित ऊस पुरवठा करणाऱ्या ऊस उत्पादक सभासदकरिता कारखान्याच्या स्वनिधीतून वैद्यकीय अर्थ सहाय्य योजनेअंतर्गत हृदय

विकार, कॅन्सर, मूत्रपिंड, मोतीबिंदू, काचबिंदू उपचारासाठी कारखान्याचे संस्थापक चेअरमन कल्लाप्पाण्णा आवाडे, आमदार प्रकाश आवाडे यांनी योजना सुरू केली. याच योजनेतून भोज येथील धन्याकुमार चौगुले यांना हृदय विकार उपचारासाठी हा 50 हजार रुपयेचा धनादेश सुपूर्द केला. यावेळी सिनियर अग्नीहोशर अनिल चौगुले, विश्वनाथ हिरेमठ, आप्पा दुर्गे, सर्कल अधिकारी वर्धमान ईसराणा, बाळासो मालबा, सुनील हिरीकुडे, अजित मगदूम, अमोल पाटील, अनिल झुलपे आदी उपस्थित होते.

## जवाहर कारखान्याकडून वैद्यकीय अर्थसहाय्य वितरण

कारदगा (हिंदूसम्राट प्रतिनिधी रंगराव बन्ने यांजकडून):-जवाहर शेतकरी साखर कारखान्याच्या मार्फत संस्थापक चेअरमन कल्लाप्पाण्णा आवाडे व आमदार प्रकाश आवाडे यांच्या मार्गदर्शानुसार शिरगाव येथील ऊस उत्पादक सभासद कैलक्ष्मण सिद्धाप्या खिलारे यांचे वारसदार मुताप्या लक्ष्मण खिलारे यांना वैद्यकीय अर्थसहाय्य योजनेतून 50 हजार रूपयेचे अर्थसहाय्य धनादेश भोज सर्कल ऑफिसमध्ये संचालक सुमेरु पाटील व शीतल अमनावर यांच्या हस्ते सुपूर्द करण्यात आला.



जवाहर कारखान्यास नियमित ऊस पुरवठा करणाऱ्या ऊस उत्पादक सभासदकरिता चेअरमन कल्लाप्पाण्णा आवाडे यांनी कारखान्याच्या स्वनिधीतून

वैद्यकीय अर्थसहाय्य योजनेतून हृदयविकार, कॅन्सर, मूत्रपिंड, मोतीबिंदू, काचबिंदू उपचारासाठी आर्थिक मदत देण्याची योजना सुरू केली आहे. त्याप्रमाणे शिरगाव येथील ऊस उत्पादक लक्ष्मण खिलारे यांना कॅन्सर आजारावर उपचार सुरू असता त्यांचा मृत्यू झाला. त्यामुळे त्यांना आर्थिक सहाय्य म्हणून त्यांचे वारसदार मुताप्या खिलारे

यांच्याकडे 50 हजाराचा धनादेश सुपूर्द करण्यात आला. यावेळी एग्निहोवशीयर वर्धमान इसराणा, बाळासो मालबा, अजित मगदूम, सुनील हिरीकुडे, अमोल पाटील, गजानन मठपती, वृषभ अक्कोळे, भरत भागाजे, बाबासो माणगाये, विलास टायशेटी, संतोष पलसकर, संजय हसुरे, सिदनाळे, सुरेश पोवाडे आदी उपस्थित होते.

## जवाहर साखर कारखान्यातर्फे वैद्यकीय अर्थसहाय्यक

अकिवाट/प्रतिनिधी-

जवाहर शेतकरी सहकारी साखर कारखान्याच्या वैद्यकीय अर्थ सहाय्यता योजनेतर्गत अकिवाट येथील नियमित ऊस पुरवठा सभासद राजगोंडा जयपाल पाटील यांना डोळ्याच्या मोतीबिंदू उपचारासाठी ३ हजार रूपये व तमण्णा श्रीमंत चौगुले यांना हृदयविकाराच्या उपचारासाठी ५० हजाराचा धनादेश संचालक संजयकुमार कोथही व बाबासो होसकळे यांच्याहस्ते प्रदान करण्यात आला.



धनादेश स्विकारल्यानंतर

सभासदांच्या चेहऱ्यावर हास्य उमटले. ही योजना संस्थापक कल्लाप्पाण्णा आवाडे यांच्या संकल्पनेतून चेअरमन प्रकाश आवाडे यांच्या प्रेरणेतून कारखान्यास नियमित ऊस पुरवठा करणाऱ्या

सभासदांना या योजनेचा लाभ घेता येतो असे संचालक कोथळी यावेळी म्हणाले. यावेळी वरीष्ठ विभागीय शेती अधिकारी अजित चौगुले, लिपिक सुनिल दिवटे यांच्यासह कर्मचारी उपस्थित होत.





## Revised Time Bound Action Plan of CER

### Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.

No.	CER Activities Done	Amount (Lakhs)
1	<b>Water Conservation:</b> Promotion and Supply of “Drip Irrigation” system infrastructure to bring 50 Ha of land belonging to farmers under command within 5 years.	Rs. 25
2	<b>Sugarcane Development Schemes:</b> Funding for development of better cane species, Organic Fertilizers, Vermi Compost, Bio-fertilizers, improved harvesting practices, minimization of crop period etc. & motivation to farmers through Prizes for best crop with high yields.	Rs. 7
3	<b>Afforestation :</b> Plantation of 1000 Trees / Village including supplying the plant, its cultivation and maintenance for 18 months. Cost :4 Villages X 1000 Trees X Rs. 500/- per Tree = Rs. 20 Lakhs Plantation of Fruit bearing trees like Indian Almond, Mango, Jamun, Amala, Cherry, Mulberry, Manila tamarind etc.	Rs. 20
4	<b>Clean &amp; Safe Drinking Water Supply:</b> Provision of Water Treatment & Dispenser Unit comprising of RO Module, Filtration System, Storage Tank, Piping, Control Panel, Dispensing and Metering System for water supply in 3 Villages. 6 Units X Rs. 2.5 Lakh/ Unit = Rs. 15 Lakhs.	Rs. 15
5	<b>Non-Conventional Energy Promotion (5 Villages) :</b> Provision of Solar Street Light Gadget comprising of -1 MS Pole, 18-20 W LED Lamp, Battery, Solar Panel, Wiring. Cost : 50 Solar Street Lights X Rs.30,000/- = Rs.15 Lakhs	Rs. 15
6	<b>Supply of MSW Management Infrastructure (5 Villages):</b> Providing MS Containers (2M X 1.5 M X 1.2M) Top / Side opening, 2 Containers / Village. PP to provide Tractor Trolley with lifting arrangement to dump containers at MSW processing site of each Village. 10 Containers X Rs. 2 Lakhs/No. = Rs. 20 Lakhs	Rs. 20
7	<b>Cane Trash Management &amp; Awareness Program:</b> Training & Awareness to farmers for refraining them from “Cane Trash (Pachat)” burning to prevent sever ‘Air Pollution’, inculcating habits towards Eco-friendly Agricultural Practices.	Rs. 5
9	<b>Social Infrastructure Activities :</b> Funding for Government Schools (4 villages), Funding for road development & maintenance, Funding for Public Health Centers, Provision of Water Retention Structures in villages viz.	Rs. 35
	<b>Total</b>	<b>Rs. 142</b>



## Revised CER Plan

No.	CER Activity	CER Done	Costing in Rs. Lakhs		
		2020-2023	2023-24	2024-25	Total
1	Water Conservation	100.01	12	13	<b>125</b>
2	Sugarcane Development Schemes	85.29	4	3	<b>92</b>
3	Afforestation (5 Villages)	6.73	10	10	<b>27</b>
4	Clean & Safe Drinking Water Supply	6.78	7.5	7.5	<b>22</b>
5	Non-Conventional Energy Promotion (5 Villages)	7.26	7.5	7.5	<b>22</b>
6	Cane Trash Management & Awareness Program	19.03	10	10	<b>39</b>
7	Medical & Healthcare Facilities	52.34	--	5	<b>57</b>
8	Social Infrastructure Activities	0	15	20	<b>35</b>
9	Sport Promotion Funding	11.72	--	--	<b>11.72</b>
10	Social Activities	69.39	--	--	<b>69.39</b>
		<b>358.55</b>	<b>66</b>	<b>76</b>	<b>500.55</b>

Annexure – IX  
Rain Water Harvesting

## Rain Water Harvesting



Annexure – X  
Photographs of  
Asphalted Road

Photographs of Asphalted Roads



Photographs of Asphalted Roads



Annexure – XI  
Photographs of OCEMS  
(Stack & ETP)

Online Monitoring System



Boiler Ash Handling System





## OCMS for Sugar Factory ETP



OCMS (Analyzer)



OCMS (Sensor)



Flow Meter on Treated Effluent Pipe

ESP for 20 & 90 TPH Boiler Capacity



ESP for 75 TPH Boiler Capacity

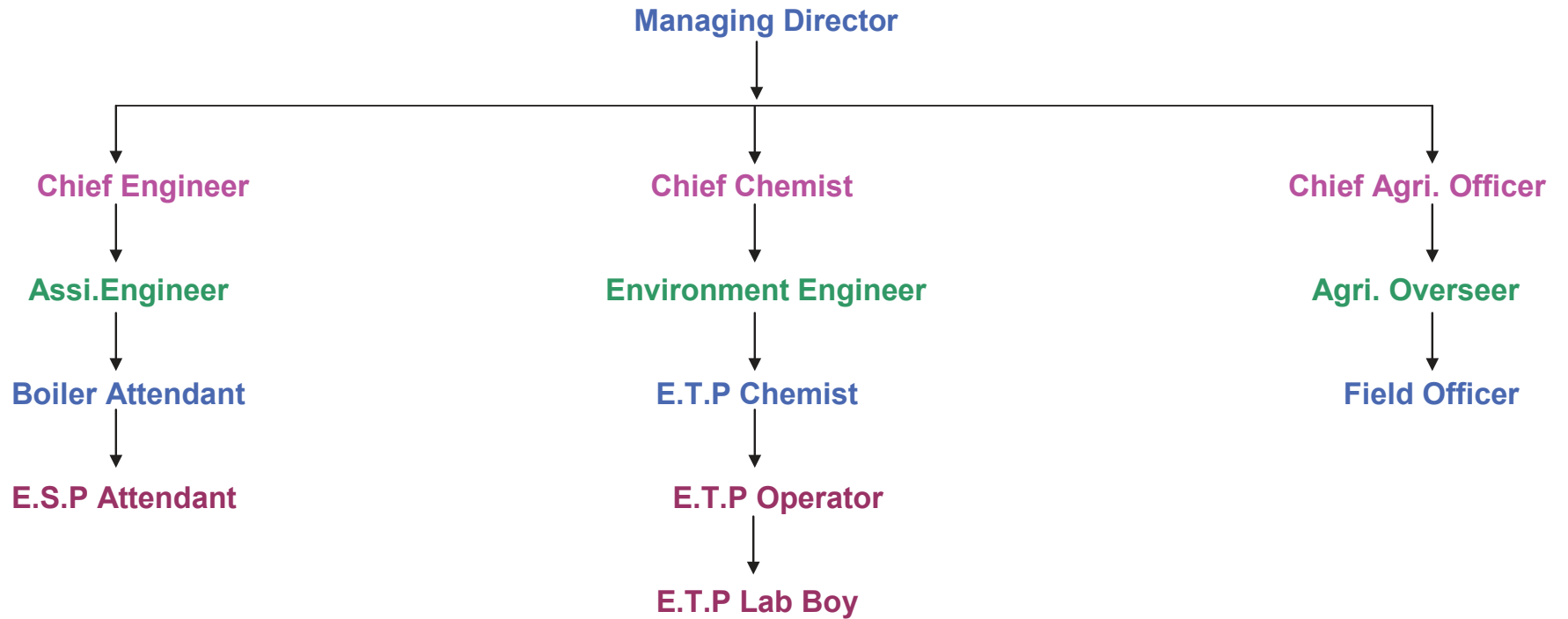


Annexure – XII  
Environment Management Cell  
(EMC)

# Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari

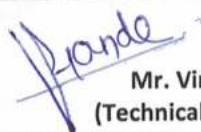

Shri Kallappaanna Awadenagar, Hupari-Yalgud 416 203,  
Tal. Hatkanangale, Dist. Kolhapur (Maharashtra)

## Environmental Management Cell



Annexure – XIII  
Monitoring Report  
(AAQM)  
(NOISE)  
(ETP & STP)


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 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/11/785		Report Date	30/11/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/785			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Main Gate		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
02:00 P.M.	03:00 P.M.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30.0	Wet Bulb Temperature °C	21.0	
Dry Bulb Temperature °C	30.0	Relative Humidity % RH	44.4	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
24/11/2022	25/11/2022	26/11/2022	30/11/2022	
Name of Instrument	High Volume Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1528	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	61.33
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	18.25
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	17.74
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	21.40
<b>Remark</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		
				

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB)  
 and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/11/786		Report Date	30/11/2022
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/786			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near ETP		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
02:10 P.M.	03:10 P.M.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30.0	Wet Bulb Temperature °C	21.0	
Dry Bulb Temperature °C	30.0	Relative Humidity % RH	44.4	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
24/11/2022	25/11/2022	26/11/2022	30/11/2022	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1525	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	59.36
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	17.01
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	14.87
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	19.09
<b>Remark</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

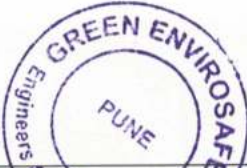
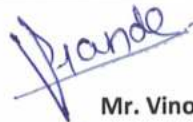
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**TEST REPORT**



Test Report No: -	GESEC/PRO/AAQM/2022-23/11/787		Report Date	30/11/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/787				
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
<b>Ambient Air Sample Details</b>					
Type	Sampling Location			Sampling done by	
Ambient Air	Near Cane Yard			GESEC	
<b>Sampling Time</b>					
Start Time	Stop Time			Total Hrs.	
02:25 P.M.	03:25 P.M.			60 Min	
<b>Metrological Data/Environmental Conditions</b>					
Ambient Temperature °C	29.0	Wet Bulb Temperature °C	19		
Dry Bulb Temperature °C	29.0	Relative Humidity % RH	48.7		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date		
24/11/2022	25/11/2022	26/11/2022	30/11/2022		
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration	19/10/2022		
Calibration Certificate No.	SSEC/FF/1526	Due Date of Calibration	18/10/2023		
Parameters	Method	Unit	NAAQ Standards	Result	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	63.86	
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	20.76	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	18.04	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	23.59	
<b>Remark:-</b>					
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.					
					
			 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By		

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ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company



TEST REPORT				
Test Report No	GESEC/PRO/ST/2022-23/11/788		Report Date	30/11/2022
Sample ID -	GESEC/PRO/ST/2022-23/11/788			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
24/11/2022	25/11/2022	26/11/2022	30/11/2022	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 1 (90+20 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m)	4.73	Pressure	5.00	
Height (m)		75		
Temperature ( °C)	125	Velocity (m/s)	8.47	
Gas Volume (Nm <sup>3</sup> /Hr)		401649.21		
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	42.36
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	18.45
		Kg/day	-	177.85
<b>Remarks-</b>				
<ul style="list-style-type: none"> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM<sup>3</sup>.</li> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SO<sub>2</sub>: As per consent.</li> </ul>				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

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TEST REPORT				
Test Report No	GESEC/PRO/ST/2022-23/11/789	Report Date	30/11/2022	
Sample ID -	GESEC/PRO/ST/2022-23/11/789			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
24/11/2022	25/11/2022	26/11/2022	30/11/2022	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 2 (75 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m)	2.5	Pressure	4.00	
Height (m)			72	
Temperature ( °C)	120	Velocity (m/s)	7.53	
Gas Volume (Nm <sup>3</sup> /Hr)			100993.84	
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	39.86
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	17.41
		Kg/day	-	42.20
<b>Remarks-</b>				
<ul style="list-style-type: none"> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM<sup>3</sup>.</li> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SO<sub>2</sub>: As per consent.</li> </ul>				
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**TEST REPORT**

Test Report No: -	GESEC/PRO/ANLM/2022-23/11/790	Report Date	30/11/2022
Sample ID: -	GESEC/PRO/ANLM/2022-23/11/790		

Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)
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**Ambient Noise Sample Details**

Type	Ambient Noise
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Sampling done by	GESEC
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Standard method	As Per IS: 9989:2020
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Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
24/11/2022	25/11/2022	26/11/2022	30/11/2022

Name Of Instrument	Digital Sound Level Meter	Date Of Calibration	17/10/2022
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration	16/10/2023

Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day (04:00 P.M.)	Night (10:30 P.M.)	
Near Main Gate	dB(A)	60.3	57.1	During Day time = 75 dB (A) During Night time= 70 dB(A)
Near ETP	dB(A)	68.7	62.4	
Near Bagasse Section	dB(A)	67.4	62.3	
Near Sugar Godown	dB(A)	65.9	61.8	
Near Cane Yard	dB(A)	66.2	63.0	

**Remark-**

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



*Hande*  
Mr. Vinod Hande  
(Technical Manager)  
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TEST REPORT				
Test Report No: -	GESEC/PRO/WNLM/2022-23/11/791		Report Date	30/11/2022
Sample ID: -	GESEC/PRO/WNLM/2022-23/11/791			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Work Zone Noise Sample Details				
Type	Work Zone Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
24/11/2022	25/11/2022	26/11/2022	30/11/2022	
Name of Instrument	Sound Level Meter	Date of Calibration	07/10/2022	
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration	06/10/2023	
Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (04:40 P.M.)	Night (11:30 P.M.)	
Centrifugal Section	dB(A)	83.1	80.4	≤ 90
Turbine Section	dB(A)	88.6	84.5	
Boiler Section	dB(A)	85.0	82.2	
Mill Section	dB(A)	87.3	82.7	
Pan Section	dB(A)	86.4	83.0	
<b>Remark-</b>				
<ul style="list-style-type: none"> <li>➤ The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.</li> <li>➤ All above results are within Factories Act 1948 Standards.</li> </ul>				
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TEST REPORT			
Test Report No: GESEC/PRO/WW/2022-23/11/792	Report Date	30/11/2022	
Sample ID : GESEC/PRO/WW/2022-23/11/792	Sample Details	ETP Inlet	
Name & Address of the Customer:  M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Type of Sample	Waste Water	
	Volume Of Sample	1 Lit plastic bottle	
	Sample Status	Sealed	
	Sample Collected By	GESEC	
	Date of Sample Collection	24/11/2022	
	Sample Receipt Date	25/11/2022	
	Analysis start Date	26/11/2022	
	Analysis End Date	30/11/2022	
Parameters	Results	Unit	Standard Method
pH	3.00	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	141.79	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	3251.42	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	3012.98	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1497.20	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	963.32	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4--	822.79	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	14.00	mg/lit	IS 3025 (Part 39), 2019
			
 <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>			

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TEST REPORT				
Test Report No: GESEC/PRO/WW/2022-23/11/793		Report Date		30/11/2022
Sample ID : GESEC/PRO/WW/2022-23/11/793		Sample Details		ETP Outlet
<b>Name &amp; Address of the Customer:</b> <b>M/s. Kallappanna Awade Jawahar Shetkari</b> <b>Sahakari Sakhar Karkhana Ltd.,</b> <b>Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur</b> <b>(Maharashtra)</b>		Type of Sample		Waste Water
		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		24/11/2022
		Sample Receipt Date		25/11/2022
		Analysis start Date		26/11/2022
		Analysis End Date		30/11/2022
Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.25	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	18.62	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1137.91	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	65.20	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	23.47	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	164.01	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4 --	124.99	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b> ➤ BDL – Below Detectable Limit. ➤ All parameters are within the MPCB limit.				
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TEST REPORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/11/794		Report Date	30/11/2022
Sample ID: -	GESEC/PRO/WZM/2022-23/11/794			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Pan Section		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
02:35 P.M.	03:35 P.M.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	32	Wet Bulb Temperature °C	23	
Dry Bulb Temperature °C	32	Relative Humidity % RH	46	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
24/11/2022	25/11/2022	26/11/2022	30/11/2022	
Name of Instrument	Handy Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1517	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.346
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.008
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.012
<b>Note:</b>				
<ul style="list-style-type: none"> <li>NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.</li> </ul>				
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<b>Test Report No: -</b>	GESEC/PRO/WZM/2022-23/11/795		<b>Report Date</b>	<b>30/11/2022</b>
<b>Sample ID: -</b>	GESEC/PRO/WZM/2022-23/11/795			
<b>Name &amp; Address of the Customer</b>	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
<b>WORKZONE AIR QUALITY MONITORING RESULTS</b>				
<b>Type</b>	<b>Sampling Location</b>		<b>Sampling was done by</b>	
Ambient Air	Sugar House		GESEC	
<b>Sampling Time</b>				
<b>Start Time</b>	<b>Stop Time</b>		<b>Total Hrs.</b>	
02:45 P.M.	03:45 P.M.		60 Min	
<b>Metrological Data/Environmental Conditions</b>				
<b>Ambient Temperature °C</b>	32	<b>Wet Bulb Temperature °C</b>	23	
<b>Dry Bulb Temperature °C</b>	32	<b>Relative Humidity % RH</b>	46	
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
24/11/2022	25/11/2022	26/11/2022	30/11/2022	
<b>Name Of Instrument</b>	Personal Sampler	<b>Date of Calibration</b>	19/10/2022	
<b>Calibration Certificate No.</b>	SSEC/FF/1519	<b>Due Date of Calibration</b>	18/10/2023	
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.362
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.007
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.011
<b>Note:</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18 <sup>th</sup> November 2009.				
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**TEST REPORT**

<b>Test Report No: -</b>	<b>GESEC/PRO/AAQM/2022-23/12/1113</b>	<b>Report Date</b>	03/01/2023	
<b>Sample ID: -</b>	<b>GESEC/PRO/AAQM/2022-23/12/1113</b>			
<b>Name &amp; Address of the Customer</b>	<b>M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)</b>			
<b>Ambient Air Sample Details</b>				
<b>Type</b>	<b>Sampling Location</b>		<b>Sampling done by</b>	
Ambient Air	Near Main Gate		GESEC	
<b>Sampling Time</b>				
<b>Start Time</b>	<b>Stop Time</b>		<b>Total Hrs.</b>	
04:00 P.M.	05:00 P.M.		60 Min	
<b>Metrological Data/Environmental Conditions</b>				
<b>Ambient Temperature °C</b>	29.0	<b>Wet Bulb Temperature °C</b>	17.0	
<b>Dry Bulb Temperature °C</b>	29.0	<b>Relative Humidity % RH</b>	28.3	
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
28/12/2022	29/12/2022	30/12/2022	03/01/2023	
<b>Name of Instrument</b>	High Volume Sampler	<b>Date Of Calibration</b>	19/10/2022	
<b>Calibration Certificate No.</b>	SSEC/FF/1528	<b>Due Date of Calibration</b>	18/10/2023	
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	63.86
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	20.09
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	18.02
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	24.11
<b>Remark</b>				
➤ 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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**TEST REPORT**

<b>Test Report No: -</b>	<b>GESEC/PRO/AAQM/2022-23/12/1114</b>	<b>Report Date</b>	<b>03/01/2023</b>	
<b>Sample ID: -</b>	<b>GESEC/PRO/AAQM/2022-23/12/1114</b>			
<b>Name &amp; Address of the Customer</b>	<b>M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)</b>			
<b>Ambient Air Sample Details</b>				
<b>Type</b>	<b>Sampling Location</b>		<b>Sampling done by</b>	
<b>Ambient Air</b>	<b>Near ETP</b>		<b>GESEC</b>	
<b>Sampling Time</b>				
<b>Start Time</b>	<b>Stop Time</b>		<b>Total Hrs.</b>	
<b>04:10 P.M.</b>	<b>05:10 P.M.</b>		<b>60 Min</b>	
<b>Metrological Data/Environmental Conditions</b>				
<b>Ambient Temperature °C</b>	<b>29.0</b>	<b>Wet Bulb Temperature °C</b>	<b>17.0</b>	
<b>Dry Bulb Temperature °C</b>	<b>29.0</b>	<b>Relative Humidity % RH</b>	<b>28.3</b>	
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
<b>28/12/2022</b>	<b>29/12/2022</b>	<b>30/12/2022</b>	<b>03/01/2023</b>	
<b>Name of Instrument</b>	<b>Repairable Dust Sampler</b>	<b>Date Of Calibration</b>	<b>19/10/2022</b>	
<b>Calibration Certificate No.</b>	<b>SSEC/FF/1525</b>	<b>Due Date of Calibration</b>	<b>18/10/2023</b>	
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	60.23
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	18.71
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	15.74
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	19.86
<b>Remark</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.				
  <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>				

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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/12/1115		Report Date	03/01/2023
Sample ID: -	GESEC/PRO/AAQM/2022-23/12/1115			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Cane Yard		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
04:20 P.M.	05:20 P.M.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	28.0	Wet Bulb Temperature °C	19	
Dry Bulb Temperature °C	28.0	Relative Humidity % RH	31.1	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
28/12/2022	29/12/2022	30/12/2022	03/01/2023	
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1526	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	64.12
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	21.16
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	16.74
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	21.85
<b>Remark:-</b>				
➤ 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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TEST REPORT				
Test Report No	GESEC/PRO/AAQM/2022-23/12/1116	Report Date	03/01/2023	
Sample ID -	GESEC/PRO/AAQM/2022-23/12/1116			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
28/12/2022	29/12/2022	30/12/2022	03/01/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 1 (90+20 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m )	4.73	Pressure	4.00	
Height (m)	75			
Temperature ( °C )	130	Velocity (m/s)	7.62	
Gas Volume (Nm <sup>3</sup> /Hr)	357010.44			
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	38.63
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	16.87
		Kg/day	-	144.55
<b>Remarks-</b>				
<ul style="list-style-type: none"> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM<sup>3</sup>.</li> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SO<sub>2</sub>: As per consent.</li> </ul>				
			 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By	

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TEST REPORT				
Test Report No	GESEC/PRO/ST/2022-23/12/1117		Report Date	03/01/2023
Sample ID -	GESEC/PRO/ST/2022-23/12/1117			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
28/12/2022	29/12/2022	30/12/2022	03/01/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 2 (75 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m)	2.5	Pressure	3.00	
Height (m)	72			
Temperature ( °C)	125	Velocity (m/s)	6.56	
Gas Volume (Nm <sup>3</sup> /Hr)	86912.11			
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	43.13
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	19.50
		Kg/day	-	40.67
<b>Remarks-</b>				
<ul style="list-style-type: none"> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM<sup>3</sup>.</li> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SO<sub>2</sub>: As per consent.</li> </ul>				
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TEST REPORT				
Test Report No: -	GESEC/PRO/ANLM/2022-23/12/1118	Report Date	03/01/2023	
Sample ID: -	GESEC/PRO/ANLM/2022-23/12/1118			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Noise Sample Details				
Type	Ambient Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
28/12/2022	29/12/2022	30/12/2022	03/01/2023	
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration	16/10/2023	
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day (05:45 P.M.)	Night (11:00 P.M.)	
Near Main Gate	dB(A)	61.7	60.4	During Day time = 75 dB (A) During Night time= 70 dB(A)
Near ETP	dB(A)	65.3	64.2	
Near Bagasse Section	dB(A)	70.2	66.3	
Near Sugar Godown	dB(A)	68.9	64.7	
Near Cane Yard	dB(A)	72.3	68.0	
<b>Remark-</b>				
➤ Centre Pollution Control Board (CPCB) 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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**TEST REPORT**

Test Report No: -	GESEC/PRO/WNLM/2022-23/12/1119	Report Date	03/01/2023
Sample ID: -	GESEC/PRO/WNLM/2022-23/12/1119		

Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)
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**Work Zone Noise Sample Details**

Type	Work Zone Noise
Sampling done by	GESEC
Standard method	As Per IS: 9989:2020

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
28/12/2022	29/12/2022	30/12/2022	03/01/2023

Name of Instrument	Sound Level Meter	Date of Calibration	07/10/2022
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration	06/10/2023

Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (06:20 P.M.)	Night (11:40 P.M.)	
Centrifugal Section	dB(A)	86.9	84.1	≤ 90
Turbine Section	dB(A)	89.0	87.2	
Boiler Section	dB(A)	87.2	85.7	
Mill Section	dB(A)	88.5	84.1	
Pan Section	dB(A)	88.1	86.0	

**Remark-**

- The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.
- All above results are within Factories Act 1948 Standards.



*Hande*

**Mr. Vinod Hande**  
(Technical Manager)  
Reviewed & Authorized By

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TEST REPORT			
Test Report No GESEC/PRO/WW/2022-23/12/1120	Report Date	03/01/2023	
Sample ID : GESEC/PRO/WW/2022-23/12/1120	Sample Details	ETP Inlet	
Name & Address of the Customer:  M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Type of Sample	Waste Water	
	Volume Of Sample	1 Lit plastic bottle	
	Sample Status	Sealed	
	Sample Collected By	GESEC	
	Date of Sample Collection	28/12/2022	
	Sample Receipt Date	29/12/2022	
	Analysis start Date	30/12/2022	
	Analysis End Date	03/01/2023	
Parameters	Results	Unit	Standard Method
pH	4.00	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	168.95	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	2895.61	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2541.97	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1156.03	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	869.20	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4--	741.77	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	13.00	mg/lit	IS 3025 (Part 39), 2019
 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By			

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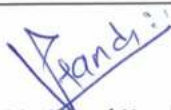


TEST REPORT				
Test Report No: GESEC/PRO/WW/2022-23/12/1121		Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1121		Sample Details		ETP Outlet
<b>Name &amp; Address of the Customer:</b> M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample		Waste Water
		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		28/12/2022
		Sample Receipt Date		29/12/2022
		Analysis start Date		30/12/2022
		Analysis End Date		03/01/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.53	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	17.40	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1236.52	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	63.11	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	24.09	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	186.52	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4 --	110.67	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b> ➤ BDL – Below Detectable Limit. ➤ All parameters are within the MPCB limit.				
				
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TEST REPORT			
Test Report No: GESEC/PRO/WW/2022-23/12/1122		Report Date	03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1122		Sample Details	Factory STP Inlet
<b>Name &amp; Address of the Customer:</b> M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample	Waste Water
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	28/12/2022
		Sample Receipt Date	29/12/2022
		Analysis start Date	30/12/2022
		Analysis End Date	03/01/2023
Parameters	Results	Unit	Standard Method
pH	6.10	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	67.40	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1236.52	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	147.63	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	60.49	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	186.52	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	110.67	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b> > BDL – Below Detectable Limit.			
		 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By	



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TEST REPORT				
Test Report No: GESEC/PRO/WW/2022-23/12/1123		Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1123		Sample Details		Factory STP Outlet
<b>Name &amp; Address of the Customer:</b> M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample		Waste Water
		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		28/12/2022
		Sample Receipt Date		29/12/2022
		Analysis start Date		30/12/2022
		Analysis End Date		03/01/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.74	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.28	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	652.10	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	41.52	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	15.74	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	95.63	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	64.20	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b> ➤ BDL – Below Detectable Limit. ➤ All parameters are within the MPCB limit.				
				
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ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

**TEST REPORT**

<b>Test Report No: GESEC/PRO/WW/2022-23/12/1124</b>	<b>Report Date</b>	03/01/2023
<b>Sample ID : GESEC/PRO/WW/2022-23/12/1124</b>	<b>Sample Details</b>	Colony STP Inlet
<b>Name &amp; Address of the Customer:</b> M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	<b>Type of Sample</b>	Waste Water
	<b>Volume Of Sample</b>	1 Lit plastic bottle
	<b>Sample Status</b>	Sealed
	<b>Sample Collected By</b>	GESEC
	<b>Date of Sample Collection</b>	28/12/2022
	<b>Sample Receipt Date</b>	29/12/2022
	<b>Analysis start Date</b>	30/12/2022
	<b>Analysis End Date</b>	03/01/2023

Parameters	Results	Unit	Standard Method
pH	6.47	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	55.20	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1302.56	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	125.63	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	52.30	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	210.47	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	145.96	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019

**Remark:**

- BDL – Below Detectable Limit.





*Hande*

**Mr. Vinod Hande**  
(Technical Manager)  
Reviewed & Authorized By

\*\*\*END OF REPORT\*\*\*

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TEST REPORT				
Test Report No: GESEC/PRO/WW/2022-23/12/1125		Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1125		Sample Details		Colony STP Outlet
Name & Address of the Customer: M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample		Waste Water
		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		28/12/2022
		Sample Receipt Date		29/12/2022
		Analysis start Date		30/12/2022
		Analysis End Date		03/01/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.50	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	17.63	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	596.20	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	45.11	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	13.47	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	102.56	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	78.01	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>				
<ul style="list-style-type: none"> <li>➤ BDL – Below Detectable Limit.</li> <li>➤ All parameters are within the MPCB limit.</li> </ul>				
				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By



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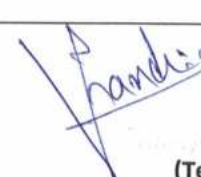
TEST REPORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/12/1260		Report Date	03/01/2023
Sample ID: -	GESEC/PRO/WZM/2022-23/12/1260			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Pan Section		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
04:30 P.M.	05:30 P.M.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	30	Relative Humidity % RH	49	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
28/12/2022	29/12/2022	30/12/2022	03/01/2023	
Name of Instrument	Handy Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1517	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.412
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.009
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.013
<b>Note:</b>				
<ul style="list-style-type: none"> <li>NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.</li> </ul>				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

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TEST REPORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/12/1261		Report Date	03/01/2023
Sample ID: -	GESEC/PRO/WZM/2022-23/12/1261			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling was done by	
Ambient Air	Sugar House		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
04:40 P.M.	05:40 P.M.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30	Wet Bulb Temperature °C	22	
Dry Bulb Temperature °C	30	Relative Humidity % RH	49	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
28/12/2022	29/12/2022	30/12/2022	03/01/2023	
Name Of Instrument	Personal Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1519	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.341
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.008
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.010
<b>Note:</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18 <sup>th</sup> November 2009.				
			 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By	

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**TEST REPORT**

<b>Test Report No: -</b>	GESEC/PRO/AAQM/2022-23/01/778		<b>Report Date</b>	01/02/2023	
<b>Sample ID: -</b>	GESEC/PRO/AAQM/2022-23/01/778				
<b>Name &amp; Address of the Customer</b>	M/s. Kallappa Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
<b>Ambient Air Sample Details</b>					
<b>Type</b>	<b>Sampling Location</b>			<b>Sampling done by</b>	
Ambient Air	Near Main Gate			GESEC	
<b>Sampling Time</b>					
<b>Start Time</b>	<b>Stop Time</b>			<b>Total Hrs.</b>	
09:00 A.M.	10:00 A.M.			60 Min	
<b>Metrological Data/Environmental Conditions</b>					
<b>Ambient Temperature °C</b>	22.0	<b>Wet Bulb Temperature °C</b>		17.0	
<b>Dry Bulb Temperature °C</b>	22.0	<b>Relative Humidity % RH</b>		60.6	
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>		<b>Analysis End Date</b>	
25/01/2023	27/01/2023	28/01/2023		01/02/2023	
<b>Name of Instrument</b>	High Volume Sampler	<b>Date Of Calibration</b>		19/10/2022	
<b>Calibration Certificate No.</b>	SSEC/FF/1528	<b>Due Date of Calibration</b>		18/10/2023	
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	61.36	
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	21.50	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	16.57	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	23.40	
<b>Remark</b>					
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.					
					
 <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>					

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**TEST REPORT**

<b>Test Report No: -</b>	<b>GESEC/PRO/AAQM/2022-23/01/779</b>	<b>Report Date</b>	<b>01/02/2023</b>	
<b>Sample ID: -</b>	<b>GESEC/PRO/AAQM/2022-23/01/779</b>			
<b>Name &amp; Address of the Customer</b>	<b>M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)</b>			
<b>Ambient Air Sample Details</b>				
<b>Type</b>	<b>Sampling Location</b>		<b>Sampling done by</b>	
<b>Ambient Air</b>	<b>Near ETP</b>		<b>GESEC</b>	
<b>Sampling Time</b>				
<b>Start Time</b>	<b>Stop Time</b>		<b>Total Hrs.</b>	
<b>09:10 A.M.</b>	<b>10:10 A.M.</b>		<b>60 Min</b>	
<b>Metrological Data/Environmental Conditions</b>				
<b>Ambient Temperature °C</b>	<b>22.0</b>	<b>Wet Bulb Temperature °C</b>	<b>17.0</b>	
<b>Dry Bulb Temperature °C</b>	<b>22.0</b>	<b>Relative Humidity % RH</b>	<b>60.6</b>	
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
<b>25/01/2023</b>	<b>27/01/2023</b>	<b>28/01/2023</b>	<b>01/02/2023</b>	
<b>Name of Instrument</b>	<b>Respirable Dust Sampler</b>	<b>Date Of Calibration</b>	<b>19/10/2022</b>	
<b>Calibration Certificate No.</b>	<b>SSEC/FF/1525</b>	<b>Due Date of Calibration</b>	<b>18/10/2023</b>	
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	60.83
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	20.69
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	14.78
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	20.10
<b>Remark</b>				
➤ 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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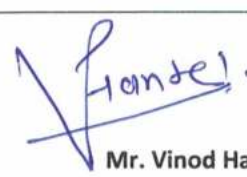
**TEST REPORT**

Test Report No: -	GESEC/PRO/AAQM/2022-23/01/780		Report Date	01/02/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23/01/780				
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
<b>Ambient Air Sample Details</b>					
Type	Sampling Location		Sampling done by		
Ambient Air	Near Cane Yard		GESEC		
<b>Sampling Time</b>					
Start Time	Stop Time		Total Hrs.		
09:20 A.M.	10:20 A.M.		60 Min		
<b>Metrological Data/Environmental Conditions</b>					
Ambient Temperature °C	23.0	Wet Bulb Temperature °C	17.0		
Dry Bulb Temperature °C	23.0	Relative Humidity % RH	54.6		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date		
25/01/2023	27/01/2023	28/01/2023	01/02/2023		
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration	19/10/2022		
Calibration Certificate No.	SSEC/FF/1526	Due Date of Calibration	18/10/2023		
Parameters	Method	Unit	NAAQ Standards	Result	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	63.36	
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	23.07	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	15.45	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	22.41	
<b>Remark:-</b>					
➤ 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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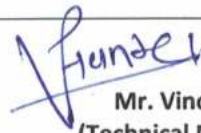
TEST REPORT				
Test Report No	GESEC/PRO/ST/2022-23/01/781	Report Date	01/02/2023	
Sample ID -	GESEC/PRO/ST/2022-23/01/781			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
25/01/2023	27/01/2023	28/01/2023	01/02/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 1 (90+20 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m)	4.73	Pressure	3.00	
Height (m)	75			
Temperature ( °C)	125	Velocity (m/s)	6.56	
Gas Volume (Nm <sup>3</sup> /Hr)	311116.14			
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	42.36
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	15.42
		Kg/day	-	115.14
<b>Remarks-</b>				
➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM <sup>3</sup> .				
➤ Maharashtra Pollution Control Board (MPCB) Limits: SO <sub>2</sub> : As per consent.				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

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TEST REPORT				
Test Report No	GESEC/PRO/ST/2022-23/01/782		Report Date	01/02/2023
Sample ID -	GESEC/PRO/ST/2022-23/01/782			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
25/01/2023	27/01/2023	28/01/2023	01/02/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 2 (75 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m )	2.5	Pressure	4.00	
Height (m)	72			
Temperature ( °C )	120	Velocity (m/s)	7.53	
Gas Volume (Nm <sup>3</sup> /Hr)	100993.84			
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	40.63
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	14.97
		Kg/day	-	36.29
<b>Remarks-</b>				
✓ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/Nm <sup>3</sup> . ✓ Maharashtra Pollution Control Board (MPCB) Limits: SO <sub>2</sub> : As per consent.				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

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**TEST REPORT**

Test Report No: -	GESEC/PRO/ANLM/2022-23/01/783	Report Date	01/02/2023
Sample ID: -	GESEC/PRO/ANLM/2022-23/01/783		

Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)
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**Ambient Noise Sample Details**

Type	Ambient Noise
Sampling done by	GESEC
Standard method	As Per IS: 9989:2020

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
25/01/2023	---	----	----

Name Of Instrument	Digital Sound Level Meter	Date Of Calibration	17/10/2022
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration	16/10/2023

Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day (11:45 P.M.)	Night (10:10 P.M.)	
Near Main Gate	dB(A)	63.9	61.5	During Day time = 75 dB (A) During Night time= 70 dB(A)
Near ETP	dB(A)	63.0	62.2	
Near Bagasse Section	dB(A)	68.2	64.9	
Near Sugar Godown	dB(A)	69.0	64.8	
Near Cane Yard	dB(A)	72.1	68.0	

**Remark-**

➤ Centre Pollution Control Board (CPCB) 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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(Technical Manager)  
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TEST REPORT				
Test Report No: -	GESEC/PRO/WNLM/2022-23/01/784	Report Date	01/02/2023	
Sample ID: -	GESEC/PRO/WNLM/2022-23/01/784			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Work Zone Noise Sample Details				
Type	Work Zone Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
25/01/2023	---	---	---	
Name of Instrument	Sound Level Meter	Date of Calibration	07/10/2022	
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration	06/10/2023	
Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (12:30 P.M.)	Night (10:45 P.M.)	
Centrifugal Section	dB(A)	84.8	82.2	≤ 90
Turbine Section	dB(A)	87.6	84.8	
Boiler Section	dB(A)	84.8	83.0	
Mill Section	dB(A)	83.5	81.1	
Pan Section	dB(A)	85.2	82.7	
<b>Remark-</b>				
> The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure. > All above results are within Factories Act 1948 Standards.				
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TEST REPORT			
Test Report No: GESEC/PRO/WW/2022-23/01/785	Report Date	01/02/2023	
Sample ID : GESEC/PRO/WW/2022-23/01/785	Sample Details	ETP Inlet	
Name & Address of the Customer:  M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Type of Sample	Waste Water	
	Volume Of Sample	1 Lit plastic bottle	
	Sample Status	Sealed	
	Sample Collected By	GESEC	
	Date of Sample Collection	25/01/2023	
	Sample Receipt Date	27/01/2023	
	Analysis start Date	28/01/2023	
	Analysis End Date	01/02/2023	
Parameters	Results	Unit	Standard Method
pH	3.50	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	154.77	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	2659.80	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2631.45	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1294.87	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	754.12	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4--	632.99	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	12.00	mg/lit	IS 3025 (Part 39), 2019
 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By			



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TEST REPORT				
Test Report No: GESEC/PRO/WW/2022-23/01/786		Report Date		01/02/2023
Sample ID : GESEC/PRO/WW/2022-23/01/786		Sample Details		ETP Outlet
<b>Name &amp; Address of the Customer:</b> M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample		Waste Water
		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		25/01/2023
		Sample Receipt Date		27/01/2023
		Analysis start Date		28/01/2023
		Analysis End Date		01/02/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.64	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.47	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	862.01	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	65.24	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	23.77	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	95.63	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4 --	74.19	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>				
➤ BDL – Below Detectable Limit.				
➤ All parameters are within the MPCB limit.				
  <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>				

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TEST REPORT			
Test Report No: GESEC/PRO/WW/2022-23/01/787		Report Date	01/02/2023
Sample ID : GESEC/PRO/WW/2022-23/01/787		Sample Details	Factory STP Inlet 50 KLPD
Name & Address of the Customer: M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample	Waste Water
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	25/01/2023
		Sample Receipt Date	27/01/2023
		Analysis start Date	28/01/2023
		Analysis End Date	01/02/2023
Parameters	Results	Unit	Standard Method
pH	6.22	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	82.47	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1305.96	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	160.24	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	85.79	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	210.64	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	165.98	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>			
➤ BDL – Below Detectable Limit.			
➤ All parameters are within the MPCB limit.			
			
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TEST REPORT				
Test Report No: GESEC/PRO/WW/2022-23/01/788		Report Date		01/02/2023
Sample ID : GESEC/PRO/WW/2022-23/01/788		Sample Details		Factory STP Outlet 50 KLPD
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample		Waste Water
		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		25/01/2023
		Sample Receipt Date		27/01/2023
		Analysis start Date		28/01/2023
		Analysis End Date		01/02/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.55	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	13.74	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	589.67	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	40.80	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	15.74	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	78.02	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	66.39	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>				
<ul style="list-style-type: none"> <li>➤ BDL – Below Detectable Limit.</li> <li>➤ All parameters are within the MPCB limit.</li> </ul>				
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TEST REPORT			
Test Report No: GESEC/PRO/WW/2022-23/01/789		Report Date	01/02/2023
Sample ID : GESEC/PRO/WW/2022-23/01/789		Sample Details	Colony STP Inlet 100 KLPD
Name & Address of the Customer: M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample	Waste Water
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	25/01/2023
		Sample Receipt Date	27/01/2023
		Analysis start Date	28/01/2023
		Analysis End Date	01/02/2023
Parameters	Results	Unit	Standard Method
pH	6.30	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	75.41	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1143.69	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	142.07	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	66.81	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	156.92	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	136.92	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>			
➤ BDL – Below Detectable Limit.			
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**TEST REPORT**

<b>Test Report No: GESEC/PRO/WW/2022-23/01/790</b>		<b>Report Date</b>		01/02/2023
<b>Sample ID : GESEC/PRO/WW/2022-23/01/790</b>		<b>Sample Details</b>		Colony STP Outlet 100 KLPD
<b>Name &amp; Address of the Customer:</b> <b>M/s. Kallappanna Awade Jawahar Shetkari Sahakari</b> <b>Sakhar Karkhana Ltd.,</b> <b>Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur</b> <b>(Maharashtra)</b>		<b>Type of Sample</b>		Waste Water
		<b>Volume Of Sample</b>		1 Lit plastic bottle
		<b>Sample Status</b>		Sealed
		<b>Sample Collected By</b>		GESEC
		<b>Date of Sample Collection</b>		25/01/2023
		<b>Sample Receipt Date</b>		27/01/2023
		<b>Analysis start Date</b>		28/01/2023
<b>Analysis End Date</b>		01/02/2023		
<b>Parameters</b>	<b>Results</b>	<b>MPCB LIMIT</b>	<b>Unit</b>	<b>Standard Method</b>
pH	7.45	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	15.94	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	502.31	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	38.93	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	14.07	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	86.92	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	65.11	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>				
✓ BDL – Below Detectable Limit. ✓ All parameters are within the MPCB limit.				
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TEST REPORT				
Test Report No: -	GESEC/PRO/WZM/2022-23/01/795		Report Date	01/02/2023
Sample ID: -	GESEC/PRO/WZM/2022-23/01/795			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Pan Section		GESEC	
	Sampling Time			
Start Time	Stop Time		Total Hrs.	
09:30 A.M.	10:30 A.M.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	26.0	Wet Bulb Temperature °C	19.0	
Dry Bulb Temperature °C	26.0	Relative Humidity % RH	51.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
25/01/2023	27/01/2023	28/01/2023	01/02/2023	
Name of Instrument	Handy Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1517	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.437
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.008
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.013
<b>Note:</b>				
<ul style="list-style-type: none"> <li>NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.</li> </ul>				
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**TEST REPORT**


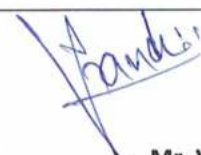
Test Report No: -	GESEC/PRO/WZM/2022-23/01/796	Report Date	01/02/2023	
Sample ID: -	GESEC/PRO/WZM/2022-23/01/796			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
<b>WORKZONE AIR QUALITY MONITORING RESULTS</b>				
Type	Sampling Location		Sampling done by	
Ambient Air	Sugar House		GESEC	
<b>Sampling Time</b>				
Start Time	Stop Time		Total Hrs.	
09:40 A.M.	10:40 A.M.		60 Min	
<b>Metrological Data/Environmental Conditions</b>				
Ambient Temperature °C	26.0	Wet Bulb Temperature °C	19.0	
Dry Bulb Temperature °C	26.0	Relative Humidity % RH	51.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
25/01/2023	27/01/2023	28/01/2023	01/02/2023	
Name Of Instrument	Personal Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1519	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.326
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.007
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.012
<b>Note:</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18 <sup>th</sup> November 2009.				
				
 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By				

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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/01/797		Report Date	01/02/2023
Sample ID: -	GESEC/PRO/AAQM/2022-23/01/797			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Talandage Village (Upwind West)		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
08:00 AM.	09:00 AM.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	22.0	Wet Bulb Temperature °C	17.0	
Dry Bulb Temperature °C	22.0	Relative Humidity % RH	61.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
25/01/2023	27/01/2023	28/01/2023	01/02/2023	
Name of Instrument	High Volume Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1528	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	56.13
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	10.74
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	14.29
<b>Remark</b>				
➤ 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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**TEST REPORT**

Test Report No: -	GESEC/PRO/AAQM/2022-23/01/798	Report Date	01/02/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23/01/798			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
<b>Ambient Air Sample Details</b>				
Type	Sampling Location		Sampling done by	
Ambient Air	Jangamwadi Village (Downwind East)		GESEC	
<b>Sampling Time</b>				
Start Time	Stop Time		Total Hrs.	
09:00 AM.	10:00 AM.		60 Min	
<b>Metrological Data/Environmental Conditions</b>				
Ambient Temperature °C	24.0	Wet Bulb Temperature °C	18.0	
Dry Bulb Temperature °C	24.0	Relative Humidity % RH	56.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
25/01/2023	27/01/2023	28/01/2023	01/02/2023	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1525	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	58.66
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	12.47
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	16.01
<b>Remark</b>				
➤ 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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<b>Test Report No. -</b>	GESEC/PRO/AAQM/2022-23/02/636		<b>Report Date</b>	<b>03/03/2023</b>	
<b>Sample ID. -</b>	GESEC/PRO/AAQM/2022-23/02/636				
<b>Name &amp; Address of the Customer</b>	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
<b>Ambient Air Sample Details</b>					
<b>Type</b>	<b>Sampling Location</b>		<b>Sampling done by</b>		
Ambient Air	Near Main Gate		GESEC		
<b>Sampling Time</b>					
<b>Start Time</b>	<b>Stop Time</b>		<b>Total Hrs.</b>		
11:30 AM.	12:30 PM.		60 Min		
<b>Metrological Data/Environmental Conditions</b>					
<b>Ambient Temperature °C</b>	30.0	<b>Wet Bulb Temperature °C</b>	15.0		
<b>Dry Bulb Temperature °C</b>	30.0	<b>Relative Humidity % RH</b>	16.5		
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>		
24/02/2023	25/02/2023	27/02/2023	03/03/2023		
<b>Name of Instrument</b>	High Volume Sampler	<b>Date Of Calibration</b>	19/10/2022		
<b>Calibration Certificate No.</b>	SSEC/FF/1528	<b>Due Date of Calibration</b>	18/10/2023		
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	60.23	
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	20.00	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	14.78	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	21.94	
<b>Remark</b>					
➤ 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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**TEST REPORT**

Test Report No: -	GESEC/PRO/AAQM/2022-23/02/637		Report Date	03/03/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23/02/637				
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
<b>Ambient Air Sample Details</b>					
Type	Sampling Location		Sampling done by		
Ambient Air	Near ETP		GESEC		
<b>Sampling Time</b>					
Start Time	Stop Time		Total Hrs.		
11:40 AM.	12:40 PM.		60 Min		
<b>Metrological Data/Environmental Conditions</b>					
Ambient Temperature °C	30.0	Wet Bulb Temperature °C	15.0		
Dry Bulb Temperature °C	30.0	Relative Humidity % RH	16.5		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date		
24/02/2023	25/02/2023	27/02/2023	03/03/2023		
Name of Instrument	Respirable Dust Sampler	Date Of Calibration	19/10/2022		
Calibration Certificate No.	SSEC/FF/1525	Due Date of Calibration	18/10/2023		
Parameters	Method	Unit	NAAQ Standards	Result	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	59.13	
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	18.33	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	12.45	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	17.96	
<b>Remark</b>					
➤ 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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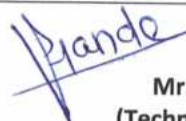
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TEST REPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23/02/638		Report Date	03/03/2023
Sample ID: -	GESEC/PRO/AAQM/2022-23/02/638			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Cane Yard		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
11:50 AM.	12:50 PM.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	31.0	Wet Bulb Temperature °C	15.0	
Dry Bulb Temperature °C	31.0	Relative Humidity % RH	14.1	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
24/02/2023	25/02/2023	27/02/2023	03/03/2023	
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1526	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	61.36
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	22.85
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	14.52
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	20.98
<b>Remark:-</b> > NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.				
		 Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		
				

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TEST REPORT				
Test Report No	GESEC/ST/2022-23/02/639		Report Date	03/03/2023
Sample ID -	GESEC/ST/2022-23/02/639			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
24/02/2023	25/02/2023	27/02/2023	03/03/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 1 (90+20 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m)	4.73	Pressure	4.00	
Height (m)	75			
Temperature ( °C)	130	Velocity (m/s)	7.62	
Gas Volume (Nm <sup>3</sup> /Hr)	357010.44			
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	40.13
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	19.20
		Kg/day	-	164.51
<b>Remarks-</b>				
➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM <sup>3</sup> .				
➤ Maharashtra Pollution Control Board (MPCB) Limits: SO <sub>2</sub> : As per consent.				
			 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By	

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**TEST REPORT**

<b>Test Report No</b>	GESEC/ST/2022-23/02/640		<b>Report Date</b>	03/03/2023
<b>Sample ID -</b>	GESEC/ST/2022-23/02/640			
<b>Name &amp; Address of the Customer</b>	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
<b>Sample Details</b>				
<b>Sample collection Date</b>	<b>Sample receipt Date</b>	<b>Analysis start Date</b>	<b>Analysis complete Date</b>	
24/02/2023	25/02/2023	27/02/2023	03/03/2023	
<b>Instrument Details</b>				
<b>Name Of Instrument</b>	Stack Monitoring Kit	<b>Date Of Calibration</b>	17/10/2022	
<b>Calibration Certificate No.</b>	SEC/TH/57	<b>Due Date of Calibration</b>	16/10/2023	
<b>Stack Details</b>				
<b>Stack No/ID</b>	<b>Stack Attached to</b>		<b>Sampling done by</b>	
01	Stack 2 (75 TPH)		GESEC	
<b>Shape</b>	<b>Round</b>	<b>Fuel Used</b>	<b>Bagasse</b>	
<b>Diameter/ Dimensions ( m )</b>	2.5	<b>Pressure</b>	3.00	
<b>Height (m)</b>	72			
<b>Temperature ( °C )</b>	125	<b>Velocity (m/s)</b>	6.56	
<b>Gas Volume (Nm<sup>3</sup>/Hr)</b>	86912.11			
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>Limit</b>	<b>Result</b>
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	38.83
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	15.60
		Kg/day	-	32.54
<b>Remarks-</b>				
<ul style="list-style-type: none"> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/Nm<sup>3</sup>.</li> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SO<sub>2</sub>: As per consent.</li> </ul>				
		 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By		


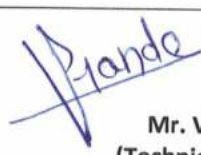
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TEST REPORT				
Test Report No: -	GESEC/ANLM/2022-23/02/641	Report Date	03/03/2023	
Sample ID: -	GESEC/ANLM/2022-23/02/641			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Noise Sample Details				
Type	Ambient Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
24/02/2023	---	---	---	
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration	16/10/2023	
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day (02:30 P.M.)	Night (10:15 P.M.)	
Near Main Gate	dB(A)	63.8	62.1	During Day time = 75 dB (A) During Night time= 70 dB(A)
Near ETP	dB(A)	64.0	61.5	
Near Bagasse Section	dB(A)	66.9	64.2	
Near Sugar Godown	dB(A)	67.1	66.9	
Near Cane Yard	dB(A)	70.1	68.9	
<b>Remark-</b>				
➤ Central Pollution Control Board (CPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time.				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

\*\*\*END OF REPORT\*\*\*

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**TEST REPORT**

Test Report No: -	GESEC/WNLM/2022-23/02/642		Report Date	03/03/2023
Sample ID: -	GESEC/WNLM/2022-23/02/642			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
<b>Work Zone Noise Sample Details</b>				
Type	Work Zone Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date
24/02/2023	---	---		---
Name of Instrument	Sound Level Meter	Date of Calibration		07/10/2022
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration		06/10/2023
Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (03:10 P.M.)	Night (10:55 P.M.)	
Centrifugal Section	dB(A)	80.4	78.2	≤ 90
Turbine Section	dB(A)	80.2	78.4	
Boiler Section	dB(A)	85.1	84.7	
Mill Section	dB(A)	86.4	82.9	
Pan Section	dB(A)	86.8	83.0	
<b>Remark-</b>				
<ul style="list-style-type: none"> <li>➤ The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.</li> <li>➤ All above results are within Factories Act 1948 Standards.</li> </ul>				



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**TEST REPORT**

Test Report No: GESEC/WW/2022-23/02/643	Report Date	03/03/2023
Sample ID : GESEC/WW/2022-23/02/643	Sample Details	ETP Inlet
Name & Address of the Customer:  M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	24/02/2023
	Sample Receipt Date	25/02/2023
	Analysis start Date	27/02/2023
	Analysis End Date	03/03/2023

Parameters	Results	Unit	Standard Method
pH	3.00	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	146.59	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	3251.47	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2896.60	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1024.95	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	911.34	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	746.93	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	14.00	mg/lit	IS 3025 (Part 39), 2019

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TEST REPORT		
Test Report No: GESEC/WW/2022-23/02/644	Report Date	03/03/2023
Sample ID : GESEC/WW/2022-23/02/644	Sample Details	ETP Outlet
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	24/02/2023
	Sample Receipt Date	25/02/2023
	Analysis start Date	27/02/2023
	Analysis End Date	03/03/2023

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.52	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	19.45	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	753.21	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	63.98	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	24.10	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	87.44	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4 --	69.86	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

**Remark:**

- BDL – Below Detectable Limit.
- All parameters are within the MPCB limit.



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TEST REPORT			
Test Report No: GESEC/WW/2022-23/02/645		Report Date	03/03/2023
Sample ID : GESEC/WW/2022-23/02/645		Sample Details	Factory STP Inlet 50 KLPD
Name & Address of the Customer: M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample	Waste Water
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	24/02/2023
		Sample Receipt Date	25/02/2023
		Analysis start Date	27/02/2023
		Analysis End Date	03/03/2023
Parameters	Results	Unit	Standard Method
pH	6.10	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	95.62	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1221.89	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	145.07	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	91.64	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	256.71	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	143.95	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>			
➤ BDL – Below Detectable Limit.			
➤ All parameters are within the MPCB limit.			
 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By			
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**TEST REPORT**


<b>Test Report No: GESEC/WW/2022-23/02/646</b>		<b>Report Date</b>		03/03/2023
<b>Sample ID : GESEC/WW/2022-23/02/646</b>		<b>Sample Details</b>		Factory STP Outlet 50 KLPD
<b>Name &amp; Address of the Customer:</b> M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	<b>Type of Sample</b>		Waste Water	
	<b>Volume Of Sample</b>		1 Lit plastic bottle	
	<b>Sample Status</b>		Sealed	
	<b>Sample Collected By</b>		GESEC	
	<b>Date of Sample Collection</b>		24/02/2023	
	<b>Sample Receipt Date</b>		25/02/2023	
	<b>Analysis start Date</b>		27/02/2023	
	<b>Analysis End Date</b>		03/03/2023	
<b>Parameters</b>	<b>Results</b>	<b>MPCB LIMIT</b>	<b>Unit</b>	<b>Standard Method</b>
pH	7.62	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	14.71	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	495.62	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	42.10	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	16.97	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	75.42	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	62.05	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>				
➤ BDL – Below Detectable Limit.				
➤ All parameters are within the MPCB limit.				
  <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By				

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TEST REPORT			
Test Report No: GESEC/WW/2022-23/02/647		Report Date	03/03/2023
Sample ID : GESEC/WW/2022-23/02/647		Sample Details	Colony STP Inlet 100 KLPD
<b>Name &amp; Address of the Customer:</b> M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample	Waste Water
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	24/02/2023
		Sample Receipt Date	25/02/2023
		Analysis start Date	27/02/2023
		Analysis End Date	03/03/2023
Parameters	Results	Unit	Standard Method
pH	6.01	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	102.65	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1452.98	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	172.63	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	96.52	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	186.77	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	151.34	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>			
➤ BDL – Below Detectable Limit. ➤ All parameters are within the MPCB limit.			
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**TEST REPORT**

Test Report No: GESEC/WW/2022-23/02/648	Report Date	03/03/2023
Sample ID : GESEC/WW/2022-23/02/648	Sample Details	Colony STP Outlet 100 KLPD
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	24/02/2023
	Sample Receipt Date	25/02/2023
	Analysis start Date	27/02/2023
	Analysis End Date	03/03/2023

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.52	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	18.99	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	562.31	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	42.10	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	16.98	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	95.41	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>-</sup>	70.12	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

**Remark:**

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TEST REPORT				
Test Report No: -	GESEC/WZM/2022-23/02/651		Report Date	03/03/2023
Sample ID: -	GESEC/WZM/2022-23/02/651			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Pan Section		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
11:20 AM.	12:20 PM.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30.0	Wet Bulb Temperature °C	20.0	
Dry Bulb Temperature °C	30.0	Relative Humidity % RH	39.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
24/02/2023	25/02/2023	27/02/2023	03/03/2023	
Name of Instrument	Handy Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1517	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.529
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.009
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.012
<b>Note:</b>				
<ul style="list-style-type: none"> <li>NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.</li> </ul>				
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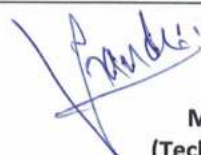
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**TEST REPORT**

Test Report No: -	GESEC/WZM/2022-23/02/652		Report Date	03/03/2023	
Sample ID: -	GESEC/WZM/2022-23/02/652				
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
<b>WORKZONE AIR QUALITY MONITORING RESULTS</b>					
Type	Sampling Location		Sampling was done by		
Ambient Air	Sugar House		GESEC		
<b>Sampling Time</b>					
Start Time	Stop Time		Total Hrs.		
11:30 AM.	12:30 PM.		60 Min		
<b>Metrological Data/Environmental Conditions</b>					
Ambient Temperature °C	30.0	Wet Bulb Temperature °C	20.0		
Dry Bulb Temperature °C	30.0	Relative Humidity % RH	39.0		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date		
24/02/2023	25/02/2023	27/02/2023	03/03/2023		
Name Of Instrument	Personal Sampler	Date of Calibration	19/10/2022		
Calibration Certificate No.	SSEC/FF/1519	Due Date of Calibration	18/10/2023		
Parameters	Method	Unit	NAAQ Standards	Result	
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.391	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.008	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.014	
<b>Note:</b>					
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18 <sup>th</sup> November 2009.					
					
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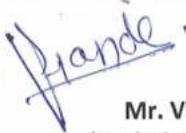
TEST REPORT				
Test Report No: -	GESEC/AAQM/2022-23/03/248		Report Date	20/03/2023
Sample ID: -	GESEC/AAQM/2022-23/03/248			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near Main Gate		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10:45 AM.	11:45 AM.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	26.0	Wet Bulb Temperature °C	16.0	
Dry Bulb Temperature °C	26.0	Relative Humidity % RH	34.1	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
14/03/2023	16/03/2023	16/03/2023	20/03/2023	
Name of Instrument	High Volume Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1528	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	61.86
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	20.90
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	13.75
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	20.40
<b>Remark</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.				
			 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By	

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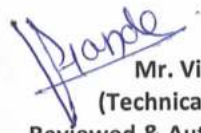
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TEST REPORT				
Test Report No: -	GESEC/AAQM/2022-23/03/249		Report Date	20/03/2023
Sample ID: -	GESEC/AAQM/2022-23/03/249			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Ambient Air Sample Details				
Type	Sampling Location		Sampling done by	
Ambient Air	Near ETP		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
10:55 AM.	11:55 AM.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	26.0	Wet Bulb Temperature °C	16.0	
Dry Bulb Temperature °C	26.0	Relative Humidity % RH	34.1	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
14/03/2023	16/03/2023	16/03/2023	20/03/2023	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1525	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	58.33
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	17.65
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	11.02
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	16.89
<b>Remark</b>				
➤ 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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and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company**TEST REPORT**

<b>Test Report No: -</b>	GESEC/AAQM/2022-23/03/250		<b>Report Date</b>	20/03/2023	
<b>Sample ID: -</b>	GESEC/AAQM/2022-23/03/250				
<b>Name &amp; Address of the Customer</b>	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
<b>Ambient Air Sample Details</b>					
<b>Type</b>	<b>Sampling Location</b>			<b>Sampling done by</b>	
Ambient Air	Near Cane Yard			GESEC	
<b>Sampling Time</b>					
<b>Start Time</b>	<b>Stop Time</b>			<b>Total Hrs.</b>	
11:10 AM.	12:10 PM.			60 Min	
<b>Metrological Data/Environmental Conditions</b>					
<b>Ambient Temperature °C</b>	27.0	<b>Wet Bulb Temperature °C</b>		16.0	
<b>Dry Bulb Temperature °C</b>	27.0	<b>Relative Humidity % RH</b>		30.3	
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>		<b>Analysis End Date</b>	
14/03/2023	16/03/2023	16/03/2023		20/03/2023	
<b>Name Of Instrument</b>	High Volume Combined Sampler	<b>Date Of Calibration</b>		19/10/2022	
<b>Calibration Certificate No.</b>	SSEC/FF/1526	<b>Due Date of Calibration</b>		18/10/2023	
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	63.36	
Particulate Matter (PM <sub>2.5</sub> )	IS:5182 (PART 24):2019	µg/cum	60.00	21.86	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	15.41	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	22.78	
<b>Remark:-</b>					
➤ 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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TEST REPORT				
Test Report No	GESEC/ST/2022-23/03/251		Report Date	20/03/2023
Sample ID -	GESEC/ST/2022-23/03/251			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
14/03/2023	16/03/2023	16/03/2023	20/03/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 1 (90+20 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m )	4.73	Pressure	3.00	
Height (m)	75			
Temperature ( °C )	135	Velocity (m/s)	6.64	
Gas Volume (Nm <sup>3</sup> /Hr)	307279.79			
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	38.33
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	15.41
		Kg/day	-	113.64
<b>Remarks-</b>				
<ul style="list-style-type: none"> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM<sup>3</sup>.</li> <li>➤ Maharashtra Pollution Control Board (MPCB) Limits: SO<sub>2</sub>: As per consent.</li> </ul>				
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TEST REPORT				
Test Report No	GESEC/ST/2022-23/03/252		Report Date	20/03/2023
Sample ID -	GESEC/ST/2022-23/03/252			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
Sample Details				
Sample collection Date	Sample receipt Date	Analysis start Date	Analysis complete Date	
14/03/2023	16/03/2023	16/03/2023	20/03/2023	
Instrument Details				
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration	16/10/2023	
Stack Details				
Stack No/ID	Stack Attached to		Sampling done by	
01	Stack 2 (75 TPH)		GESEC	
Shape	Round	Fuel Used	Bagasse	
Diameter/ Dimensions ( m)	2.5	Pressure	4.00	
Height (m)	72			
Temperature ( °C)	130	Velocity (m/s)	7.62	
Gas Volume (Nm <sup>3</sup> /Hr)	99732.95			
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm <sup>3</sup>	150	35.63
Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2) 2019	mg/Nm <sup>3</sup>	-	12.47
		Kg/day	-	29.85
<b>Remarks-</b>				
➤ Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/Nm <sup>3</sup> .				
➤ Maharashtra Pollution Control Board (MPCB) Limits: SO <sub>2</sub> : As per consent.				
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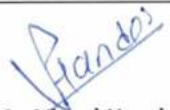


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**TEST REPORT**

<b>Test Report No: -</b>	<b>GESEC/ANLM/2022-23/03/253</b>	<b>Report Date</b>	<b>20/03/2023</b>	
<b>Sample ID: -</b>	<b>GESEC/ANLM/2022-23/03/253</b>			
<b>Name &amp; Address of the Customer</b>	<b>M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)</b>			
<b>Ambient Noise Sample Details</b>				
<b>Type</b>	Ambient Noise			
<b>Sampling done by</b>	GESEC			
<b>Standard method</b>	As Per IS: 9989:2020			
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>	
14/03/2023	--	---	--	
<b>Name Of Instrument</b>	Digital Sound Level Meter	<b>Date Of Calibration</b>	17/10/2022	
<b>Calibration Certificate No.</b>	SSEC/ME/266	<b>Due Date of Calibration</b>	16/10/2023	
<b>Test Location</b>	<b>Unit</b>	<b>Average Noise Level Readings</b>		<b>CPCB Standards dB(A)</b>
		<b>Day (01:10 P.M.)</b>	<b>Night (10:30 P.M.)</b>	
Near Main Gate	dB(A)	59.4	57.1	<b>During Day time = 75 dB (A) During Night time= 70 dB(A)</b>
Near ETP	dB(A)	63.9	60.5	
Near Bagasse Section	dB(A)	68.2	67.4	
Near Sugar Godown	dB(A)	64.5	62.9	
Near Cane Yard	dB(A)	68.0	66.7	
<b>Remark-</b>				
➤ Centre Pollution Control Board (CPCB) has prescribed 75 dB (A) as an upper limit of Noise Level during the Day Time & 70 dB (A) during the Night Time.				
				 <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>



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**TEST REPORT**

Test Report No: -	GESEC/WNLM/2022-23/03/254	Report Date	20/03/2023	
Sample ID: -	GESEC/WNLM/2022-23/03/254			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
<b>Work Zone Noise Sample Details</b>				
Type	Work Zone Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
14/03/2023	--	---	--	
Name of Instrument	Sound Level Meter	Date of Calibration	07/10/2022	
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration	06/10/2023	
Test Location	Unit	Average Noise Level Readings		The Factories Act 1948, standards
		Day (02:00 P.M.)	Night (11:15 P.M.)	
Centrifugal Section	dB(A)	78.9	77.0	≤ 90
Turbine Section	dB(A)	85.7	82.2	
Boiler Section	dB(A)	86.0	84.7	
Mill Section	dB(A)	82.5	80.9	
Pan Section	dB(A)	84.3	81.3	
<b>Remark-</b>				
➤ The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure. ➤ All above results are within Factories Act 1948 Standards.				




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TEST REPORT			
Test Report No: GESEC/WW/2022-23/03/255	Report Date	20/03/2023	
Sample ID : GESEC/WW/2022-23/03/255	Sample Details	ETP Inlet	
Name & Address of the Customer:  M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Type of Sample	Waste Water	
	Volume Of Sample	1 Lit plastic bottle	
	Sample Status	Sealed	
	Sample Collected By	GESEC	
	Date of Sample Collection	14/03/2023	
	Sample Receipt Date	16/03/2023	
	Analysis start Date	16/03/2023	
	Analysis End Date	20/03/2023	
Parameters	Results	Unit	Standard Method
pH	3.43	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	164.78	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	3562.91	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2514.79	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1136.10	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	725.96	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>-</sup>	854.77	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	13.00	mg/lit	IS 3025 (Part 39), 2019
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**TEST REPORT**

Test Report No: GESEC/WW/2022-23/03/256	Report Date	20/03/2023
Sample ID : GESEC/WW/2022-23/03/256	Sample Details	ETP Outlet
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	GESEC
	Date of Sample Collection	14/03/2023
	Sample Receipt Date	16/03/2023
	Analysis start Date	16/03/2023
	Analysis End Date	20/03/2023

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.63	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	19.02	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	632.47	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	68.77	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	25.01	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	95.68	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4 --	76.40	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

**Remark:**

- BDL – Below Detectable Limit.
- All parameters are within the MPCB limit.



*Hande*

**Mr. Vinod Hande**  
(Technical Manager)  
Reviewed & Authorized By



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TEST REPORT			
Test Report No: GESEC/WW/2022-23/03/257		Report Date	20/03/2023
Sample ID : GESEC/WW/2022-23/03/257		Sample Details	Factory STP Inlet 50 KLPD
<b>Name &amp; Address of the Customer:</b> M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample	Waste Water
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	14/03/2023
		Sample Receipt Date	16/03/2023
		Analysis start Date	16/03/2023
		Analysis End Date	20/03/2023
Parameters	Results	Unit	Standard Method
pH	6.26	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	135.74	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1309.87	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	166.98	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	95.74	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	362.10	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>-</sup>	251.47	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b> ➤ BDL – Below Detectable Limit. ➤ All parameters are within the MPCB limit.			
		 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By	
		***END OF REPORT***	

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TEST REPORT				
Test Report No: GESEC/WW/2022-23/03/258		Report Date		20/03/2023
Sample ID : GESEC/WW/2022-23/03/258		Sample Details		Factory STP Outlet 50 KLPD
<b>Name &amp; Address of the Customer:</b> M/s. Kallappaanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample		Waste Water
		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		14/03/2023
		Sample Receipt Date		16/03/2023
		Analysis start Date		16/03/2023
		Analysis End Date		20/03/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.58	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.71	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	532.40	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	44.63	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	17.94	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	87.63	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>-</sup>	58.10	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>				
➤ BDL – Below Detectable Limit.				
➤ All parameters are within the MPCB limit.				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

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TEST REPORT			
Test Report No: GESEC/WW/2022-23/03/259		Report Date	20/03/2023
Sample ID : GESEC/WW/2022-23/03/259		Sample Details	Colony STP Inlet 100 KLPD
<b>Name &amp; Address of the Customer:</b> M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample	Waste Water
		Volume Of Sample	1 Lit plastic bottle
		Sample Status	Sealed
		Sample Collected By	GESEC
		Date of Sample Collection	14/03/2023
		Sample Receipt Date	16/03/2023
		Analysis start Date	16/03/2023
		Analysis End Date	20/03/2023
Parameters	Results	Unit	Standard Method
pH	6.12	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	117.42	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	1356.19	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	191.41	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	102.47	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl <sup>-</sup>	215.96	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	174.50	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>			
> BDL – Below Detectable Limit. > All parameters are within the MPCB limit.			
		 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By	
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TEST REPORT				
Test Report No: GESEC/WW/2022-23/03/260		Report Date		20/03/2023
Sample ID : GESEC/WW/2022-23/03/260		Sample Details		Colony STP Outlet 100 KLPD
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Type of Sample		Waste Water
		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
		Sample Collected By		GESEC
		Date of Sample Collection		14/03/2023
		Sample Receipt Date		16/03/2023
		Analysis start Date		16/03/2023
		Analysis End Date		20/03/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.48	6.5-8.5	--	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.09	100	mg/lit	APHA 2540 D 23 <sup>rd</sup> ED:2017
Total Dissolved Solids (TDS)	611.84	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	48.73	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	19.50	100	mg/lit	IS 3025 (Part 44) , 2019
Chlorides as Cl <sup>-</sup>	102.69	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO <sub>4</sub> <sup>2-</sup>	82.31	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019
<b>Remark:</b>				
➤ BDL – Below Detectable Limit.				
➤ All parameters are within the MPCB limit.				
				 <b>Mr. Vinod Hande</b> <b>(Technical Manager)</b> <b>Reviewed &amp; Authorized By</b>


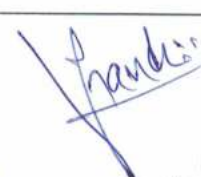
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TEST REPORT				
Test Report No: -	GESEC/WZM/2022-23/03/261		Report Date	20/03/2023
Sample ID: -	GESEC/WZM/2022-23/03/261			
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Pan Section		GESEC	
	Sampling Time			
Start Time	Stop Time		Total Hrs.	
11:20 AM.	12:20 PM.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	32.0	Wet Bulb Temperature °C	12.0	
Dry Bulb Temperature °C	32.0	Relative Humidity % RH	32.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
14/03/2023	16/03/2023	16/03/2023	20/03/2023	
Name of Instrument	Handy Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1517	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.487
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.010
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.013
<b>Note:</b>				
<ul style="list-style-type: none"> <li>NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.</li> </ul>				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

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**TEST REPORT**

Test Report No: -	GESEC/WZM/2022-23/03/262	Report Date	20/03/2023	
Sample ID: -	GESEC/WZM/2022-23/03/262			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
<b>WORKZONE AIR QUALITY MONITORING RESULTS</b>				
Type	Sampling Location		Sampling was done by	
Ambient Air	Sugar House		GESEC	
<b>Sampling Time</b>				
Start Time	Stop Time		Total Hrs.	
11:30 AM.	12:30 PM.		60 Min	
<b>Metrological Data/Environmental Conditions</b>				
Ambient Temperature °C	32.0	Wet Bulb Temperature °C	12.0	
Dry Bulb Temperature °C	32.0	Relative Humidity % RH	32.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
14/03/2023	16/03/2023	16/03/2023	20/03/2023	
Name Of Instrument	Personal Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1519	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.374
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.007
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.012
<b>Note:</b>				
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18 <sup>th</sup> November 2009.				
				
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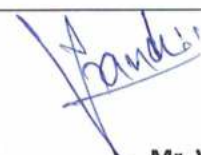
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Annexure – XIII  
Monitoring Report  
(Downwind –Upwind)



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**TEST REPORT**

<b>Test Report No: -</b>	<b>GESEC/PRO/AAQM/2022-23/01/797</b>		<b>Report Date</b>	<b>01/02/2023</b>	
<b>Sample ID: -</b>	<b>GESEC/PRO/AAQM/2022-23/01/797</b>				
<b>Name &amp; Address of the Customer</b>	<b>M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)</b>				
<b>Ambient Air Sample Details</b>					
<b>Type</b>	<b>Sampling Location</b>		<b>Sampling done by</b>		
<b>Ambient Air</b>	Talandage Village (Upwind West)		GESEC		
<b>Sampling Time</b>					
<b>Start Time</b>	<b>Stop Time</b>		<b>Total Hrs.</b>		
08:00 AM.	09:00 AM.		60 Min		
<b>Metrological Data/Environmental Conditions</b>					
<b>Ambient Temperature °C</b>	22.0	<b>Wet Bulb Temperature °C</b>	17.0		
<b>Dry Bulb Temperature °C</b>	22.0	<b>Relative Humidity % RH</b>	61.0		
<b>Date of Sampling</b>	<b>Sample Receipt Date</b>	<b>Analysis Start Date</b>	<b>Analysis End Date</b>		
25/01/2023	27/01/2023	28/01/2023	01/02/2023		
<b>Name of Instrument</b>	High Volume Sampler	<b>Date Of Calibration</b>	19/10/2022		
<b>Calibration Certificate No.</b>	SSEC/FF/1528	<b>Due Date of Calibration</b>	18/10/2023		
<b>Parameters</b>	<b>Method</b>	<b>Unit</b>	<b>NAAQ Standards</b>	<b>Result</b>	
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	56.13	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	10.74	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	14.29	
<b>Remark</b>					
➤ 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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**TEST REPORT**

Test Report No: -	GESEC/PRO/AAQM/2022-23/01/798	Report Date	01/02/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23/01/798			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
<b>Ambient Air Sample Details</b>				
Type	Sampling Location		Sampling done by	
Ambient Air	Jangamwadi Village (Downwind East)		GESEC	
<b>Sampling Time</b>				
Start Time	Stop Time		Total Hrs.	
09:00 AM.	10:00 AM.		60 Min	
<b>Metrological Data/Environmental Conditions</b>				
Ambient Temperature °C	24.0	Wet Bulb Temperature °C	18.0	
Dry Bulb Temperature °C	24.0	Relative Humidity % RH	56.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
25/01/2023	27/01/2023	28/01/2023	01/02/2023	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1525	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM <sub>10</sub> )	IS:5182 (PART 4):2019	µg/cum	100.00	58.66
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	µg/cum	80.00	12.47
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	µg/cum	80.00	16.01
<b>Remark</b>				
➤ 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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Annexure – XIV  
Monitoring Report  
Fugitive Emission



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TEST REPORT				
Test Report No: -	GESEC/WZM/2022-23/02/651		Report Date	03/03/2023
Sample ID: -	GESEC/WZM/2022-23/02/651			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)			
WORKZONE AIR QUALITY MONITORING RESULTS				
Type	Sampling Location		Sampling done by	
Ambient Air	Pan Section		GESEC	
Sampling Time				
Start Time	Stop Time		Total Hrs.	
11:20 AM.	12:20 PM.		60 Min	
Metrological Data/Environmental Conditions				
Ambient Temperature °C	30.0	Wet Bulb Temperature °C	20.0	
Dry Bulb Temperature °C	30.0	Relative Humidity % RH	39.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
24/02/2023	25/02/2023	27/02/2023	03/03/2023	
Name of Instrument	Handy Sampler	Date of Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1517	Due Date of Calibration	18/10/2023	
Parameters	Method	Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.529
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.009
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.012
<b>Note:</b>				
<ul style="list-style-type: none"> <li>NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18th November 2009.</li> </ul>				
				 <b>Mr. Vinod Hande</b> (Technical Manager) Reviewed & Authorized By

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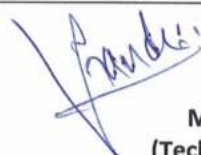
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- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.



Recognised by Ministry of Environment and Forests (MoEF) / Central Pollution Control Board Govt. of India (CPCB) and ISO/IEC 17025:2017 (NABL), ISO 9001:2015, ISO 45001 : 2018 and ISO 14001 : 2015 Certified Company

**TEST REPORT**

Test Report No: -	GESEC/WZM/2022-23/02/652		Report Date	03/03/2023	
Sample ID: -	GESEC/WZM/2022-23/02/652				
Name & Address of the Customer	M/s. Kallappa Anna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
<b>WORKZONE AIR QUALITY MONITORING RESULTS</b>					
Type	Sampling Location		Sampling was done by		
Ambient Air	Sugar House		GESEC		
<b>Sampling Time</b>					
Start Time	Stop Time		Total Hrs.		
11:30 AM.	12:30 PM.		60 Min		
<b>Metrological Data/Environmental Conditions</b>					
Ambient Temperature °C	30.0	Wet Bulb Temperature °C	20.0		
Dry Bulb Temperature °C	30.0	Relative Humidity % RH	39.0		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date		
24/02/2023	25/02/2023	27/02/2023	03/03/2023		
Name Of Instrument	Personal Sampler	Date of Calibration	19/10/2022		
Calibration Certificate No.	SSEC/FF/1519	Due Date of Calibration	18/10/2023		
Parameters	Method	Unit	NAAQ Standards	Result	
Particulate Matter (PM)	IS:5182 (PART 4):2019	mg/m <sup>3</sup>	10	0.391	
Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (PART 2):2017	mg/m <sup>3</sup>	5	0.008	
Oxides of Nitrogen(NO <sub>x</sub> )	IS:5182 (PART 6):2018	mg/m <sup>3</sup>	6	0.014	
<b>Note:</b>					
➤ NAAQS - National Ambient Air Quality Standards, Central Pollution Control Board Notification, No. B – 29016 / 20 / 90 / PCI – I, New Delhi, the 18 <sup>th</sup> November 2009.					
					
***END OF REPORT***			Mr. Vinod Hande (Technical Manager) Reviewed & Authorized By		

**Terms and conditions**

- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
- The test report cannot be reproduced wholly or in part and cannot be used for promotional or publicity purpose without the written consent of laboratory, GESEC.
- Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer.
- We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.
- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.

Annexure – XV  
Ack.copy of Submission  
Of EC Local body

0/c  
जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी

श्री कल्लाप्पाणा आवाडेनगर, हुपरी-यळगूड ४१६ २०३, ता.हातकणंगले, जि.कोल्हापूर. (महाराष्ट्र)  
फोन (०२३०) २४५०४०२ (५ लाईन्स), फॅक्स (०२३०) २४५०४०१, ई-मेल : kprjsssk@gmail.com

जा.क्र. उत्पादन/ई.टी.पी./२०२०-२१

दि.०५/१२/२०२०

प्रति,  
मा. सरपंच/ग्राम विकास अधिकारी,  
ग्रामपंचायत,  
मौजे रेंदाळ,  
ता.हातकणंगले, जि.कोल्हापूर.

विषय- एन्हीरॉनमेंटल क्लिअरन्स पत्राबाबत...

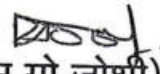
महोदय,

आमच्या कारखान्याने ऊस गाळप क्षमतेचे प्रतिदिन १२००० मे.टनावरून प्रतिदिन १६००० मे.टनापर्यंत विस्तारीकरण करण्यास मंजूरी मिळण्यासाठी पर्यावरण, वने व जल वायु परिवर्तन मंत्रालय, भारत सरकार नवी दिल्ली यांच्याकडे प्रस्ताव सादर केलेला होता. त्यास अनुसरून भारत सरकारच्या पर्यावरण मंत्रालयाकडून कारखान्यास पत्र क्रं. F.No.1A-J-11011/146/2020-IA II (I), दिनांक ०१ डिसेंबर २०२० अन्वये एन्हीरॉनमेंटल क्लिअरन्स मिळालेला आहे.

आपले माहिती करीता सादर.

कळावे,

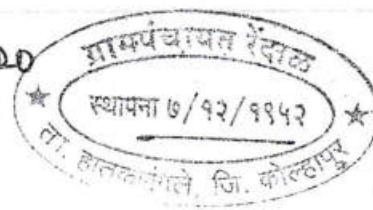
आपला विश्वासू  
जवाहर शे.सह.सा. का. लि.करिता

  
(म.गो.जोशी)  
कार्यकारी संचालक

सोबत- इन्हीरॉनमेंटल क्लिअरन्सचे पत्र.

आवक नं. १६३ दि.०५/१२/२०२०

ग्रामपंचायत रेंदाळ  
ता. हातकणंगले, जि. कोल्हापूर.



# जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी

श्री कल्लाप्याणा आवाडेनगर, हुपरी-यळगूड ४१६ २०३, ता.हातकणंगले, जि.कोल्हापूर. (महाराष्ट्र)  
फोन (०२३०) २४५०४०२ (५ लाईन्स), फॅक्स (०२३०) २४५०४०१, ई-मेल : kprjsssk@gmail.com

जा.क्र. उत्पादन/ई.टी.पी./४१९ /२०२०-२१

दि.०५/१२/२०२०

प्रति,  
मा. सरपंच/ग्राम विकास अधिकारी,  
ग्रामपंचायत,  
मौजे यळगूड,  
ता.हातकणंगले, जि.कोल्हापूर.

विषय- एन्हीरॉनमेंटल क्लिअरन्स पत्राबाबत...

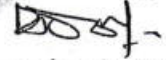
महोदय,

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आपले माहिती करिता सादर.

कळावे,

आपला विश्वासू  
जवाहर शे.सह.सा. का. लि.करिता

  
(म.गो.जोशी)

कार्यकारी संचालक

सोबत- इन्हीरॉनमेंटल क्लिअरन्सचे पत्र.



प्रत मिळाली  
दि. ५/१२/२०२०

# जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी

श्री कल्लाप्पाणा आवाडेनगर, हुपरी-यळगूड ४१६ २०३, ता.हातकणंगले, जि.कोल्हापूर. (महाराष्ट्र)  
फोन (०२३०) २४५०४०२ (५ लाईन्स), फॅक्स (०२३०) २४५०४०१, ई-मेल : kprjsssk@gmail.com

जा.क्र.उत्पादन/ई.टी.पी/४१२ /२०२०-२१

दि.०५/१२/२०२०

प्रति,

मा. नगराध्यक्षा/मुख्याधिकारी,  
हुपरी नगर परिषद, हुपरी  
ता.हातकणंगले, जि.कोल्हापूर.

विषय- एन्हीरॉनमेंटल क्लिअरन्स पत्राबाबत...


महोदय,

आमच्या कारखान्याने ऊस गाळप क्षमतेचे प्रतिदिन १२००० मे.टनावरून प्रतिदिन १६००० मे.टनापर्यंत विस्तारीकरण करण्यास मंजुरी मिळण्यासाठी पर्यावरण, वने व जल वायु परिवर्तन मंत्रालय, भारत सरकार नवी दिल्ली यांच्याकडे प्रस्ताव सादर केलेला होता. त्यास अनुसरून भारत सरकारच्या पर्यावरण मंत्रालयाकडून कारखान्यास पत्र क्रं. F.No.IA-J-11011/146/2020-IA II (I), दिनांक ०१ डिसेंबर २०२० अन्वये एन्हीरॉनमेंटल क्लिअरन्स मिळालेला आहे.

आपले माहिती करीता सादर.

कळावे,

आपला विश्वासू  
जवाहर शे.सह.सा. का. लि.करिता

  
(म.गो.जोशी)

कार्यकारी संचालक

सोबत- इन्हीरॉनमेंटल क्लिअरन्सचे पत्र.

हुपरी नगरपरिषद हुपरी

आवक क्र. - २३६५/२०२४२१

दि. ५/१२/२०२०





## जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी

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

फोन (०२३०) २४५०४०२ (५ लाईन्स), फॅक्स (०२३०) २४५०४०९, ई-मेल : kprjsssk@gmail.com

जा.क्र. उत्पादन/ई.टी.पी./२०२०-२१

दि.०५/१२/२०२०

प्रति,

मा. मुख्य कार्यकारी अधिकारी,

जिल्हा परिषद,

नागाळा पार्क,

कोल्हापूर.

विषय- एन्हीरॉनमेंटल क्लिअरन्स पत्राबाबत...

महोदय,

आमच्या कारखान्याने ऊस गाळप क्षमतेचे प्रतिदिन १२००० मे.टनावरून प्रतिदिन १६००० मे.टनापर्यंत विस्तारीकरण करण्यास मंजुरी मिळण्यासाठी पर्यावरण, वने व जल वायु परिवर्तन मंत्रालय, भारत सरकार नवी दिल्ली यांच्याकडे प्रस्ताव सादर केलेला होता. त्यास अनुसरून भारत सरकारच्या पर्यावरण मंत्रालयाकडून कारखान्यास पत्र क्रं. F.No.IA-J-11011/146/2020-IA II (I), दिनांक ०९ डिसेंबर २०२० अन्वये एन्हीरॉनमेंटल क्लिअरन्स मिळालेला आहे.

आपले माहिती करीता सादर.

कळावे,

आपला विश्वासू

जवाहर शे.सह.सा. का. लि.करिता

[Signature]

(म.गो.जोशी)

कार्यकारी संचालक

सोबत- इन्हीरॉनमेंटल क्लिअरन्सचे पत्र.

Annexure – XVI  
Ack.copy of Six Monthly  
Compliance  
Report

# JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

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

Phone (0230) 2450402, Fax (0230) 2450401

E-mail : kprjsssk@gmail.com Website : www.jawaharsugar.com

Ref. No. MFG/ETP / 1572 /2023

Date: - 22/05/2023

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- 2022 to March- 2023 w.r.t Sugar Unit of 16,000 TCD – **Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari.** Shri Kallappanna Awadenagar Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, (Maharashtra State).

**Ref.:** Environmental Clearance (EC) Letter for 16000 TCD Sugar Unit F. No. F.No.IA-J-11011/146/2020-IA II (I) Dated 1<sup>st</sup> December, 2020. Amended in EC letter dated 25/10/2021.

Dear Sir,

This has reference to Environmental Clearance (EC) granted to our Sugar Unit 16000 TCD – **Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari.** Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra State).

As per General Condition No. XII in EC letter, we are submitting a six monthly compliance report for a period of October- 2022 to March- 2023.

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

Thanking you,

Yours Faithfully,



(M.G.Joshi)

Managing Director

Encl. - As above

Copy for information to: -

- 1. To,**  
The Integrated Regional Office  
MoEFCC; Regional Office (WCZ),  
Ground Floor, East Wing,  
New Secretariat Building,  
Civil Lines, Nagpur – 440001  
Email - [apccfcentral-ngp-mef@gov.in](mailto:apccfcentral-ngp-mef@gov.in)  
[ecompliance-mh@gov.in](mailto:ecompliance-mh@gov.in)
  
- 2. Sh.Bharat Kr. Sharma**  
Scientist 'F"  
Central Pollution Control Board  
Pune  
Email – [bksharma.cpcb@nic.in](mailto:bksharma.cpcb@nic.in)
  
- 3. Member Secretary**  
Maharashtra Pollution Control Board  
Kalpataru Point, 3<sup>rd</sup> & 4<sup>th</sup> floor ,  
Opp.Cine Planet,  
Near Sion Circle,Sion (E),  
Mumbai (Maharashtra) – 400 022  
Email – [ms@mpcb.gov.in](mailto:ms@mpcb.gov.in)
  
- 4. Regional Officer ,**  
Maharashtra Pollution Control Board  
Udyog Bhavan Building,  
Near Collector Office,  
Kolhapur – 416 002  
Email – [rokolhapur@mpcb.gov.com](mailto:rokolhapur@mpcb.gov.com)

---

**Submission of Six Monthly Compliance Report of Sugar unit for the period of October 2022 to March 2023**

1 message


---

**Kallappanna awade Jawahar Sugar** <kprjsssk@gmail.com>

Tue, May 23, 2023 at 6:41 PM

To: "Shri. V N Ambade" <apccfcentral-ngp-mef@gov.in>

Cc: ecompliance-mh@gov.in, bksharma.cpcb@nic.in, ms@mpcb.gov.in, rokolhapur <rokolhapur@mpcb.gov.in>

 **Six monthly compliance report for 16000 TCD sug...**

Dear sir

This has reference to submission of Six Monthly Environmental Clearance Compliance report of 12000 TCD to 16000 TCD Sugar Unit for the period of October -2022 to March- 2023 w.r.t M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,Hupari (JSSSKL), located at Kallappanna Awadenagar, Hupari-Yalgud, Tal. Hatkanangale, Dist. Kolhapur, Maharashtra State.

Accordingly, attached herewith please find the Compliance Report and regarding Annexure.

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

Annexure – XVII  
Environment statement  
2022-2023  
(Form V)



# Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

## FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2023

### Unique Application Number

MPCB-ENVIRONMENT\_STATEMENT-0000055363

### Submitted Date

21-07-2023

## PART A

### Company Information

#### Company Name

Kallappa Anna Awade Jawahar Shetkari  
Sahakari Sakhar Karkhana Ltd.,

#### Application UAN number

--

#### Address

Gat No. 315/7 to 315/15, Hupari - Yalgud,  
Tal. Hatkanangale, Dist. Kolhapur.

#### Plot no

Gat No. 315/7 to 315/15

#### Taluka

Hatkanangale

#### Village

Hupari - Yalgud

#### Capital Investment (In lakhs)

34365.60

#### Scale

L.S.I

#### City

Hupari

#### Pincode

416203

#### Person Name

Manohar Gopal Joshi

#### Designation

Managing Director

#### Telephone Number

9822130896

#### Fax Number

02302450401

#### Email

kprjsssk@gmail.com

#### Region

SRO-Satara

#### Industry Category

Red

#### Industry Type

R12 Sugar ( excluding Khandasari)

#### Last Environmental statement submitted online

yes

#### Consent Number

Format1.0/CAC/UAN No.MPCB  
CONSENT-0000139860/CR/2211000580

#### Consent Issue Date

2022-11-08

#### Consent Valid Upto

2025-07-31

#### Establishment Year

1993

#### Date of last environment statement submitted

Aug 30 2022 12:00:00:000AM

#### Industry Category Primary (STC Code) & Secondary (STC Code)

### Product Information

#### Product Name

Sugar

#### Consent Quantity

321507.00

#### Actual Quantity

220707

#### UOM

MT/A

### By-product Information

#### By Product Name

Molasses

#### Consent Quantity

230400.0

#### Actual Quantity

71775.0

#### UOM

MT/A

Bagasses

1728000.0

497850.307

MT/A

Press Mud

230400.0

55020.439

MT/A

## Part-B (Water & Raw Material Consumption)

### 1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	2050.00	31.00
Domestic	1131.00	100.00
All others	328.00	328.00
Total	0.00	0.00
	3509.00	459.00

### 2) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Trade Effluent	1430	625.84	CMD
Domestic Effluent	125	120	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	0.062	0.082	

### 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	8.188	8.16	Ton/Ton
Lime	0.0013	0.010	Ton/Ton
Ortho-phosphoric Acid	0.000003	0.000028	Ton/Ton
Oil & Grease	0.0000026	0.00026	Ton/Ton
Sulfur	0.0003	0.0032	Ton/Ton
Caustic soda	0.0000025	0.000037	Ton/Ton
Baggase	1.33	1.25	Ton/Ton
Boiler Ash	0	0.018	Ton/Ton

### 4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bagasse	805920.00	277216.078	MT/A

## Part-C

### 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 Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
pH	0	7.63	0	6.5 to 8.5	00
Oil & Grease	0	0	0	10	00



BOD	15.63	25.01	25.01	100	00
Sulphate	47.75	76.40	764	1000	00
Suspended Solids	11.88	19.02	19.02	100	00
COD	42.98	68.77	171.92	250	00
Chloride	59.80	95.68	574.08	600	00
Total Dissolved Solids	39.52	632.47	1328	2100	00

**[B] Air (Stack)**

<b>Pollutants Detail</b>	<b>Quantity of Pollutants discharged (kL/day)</b>	<b>Concentration of Pollutants discharged(Mg/NM3)</b>	<b>Percentage of variation from prescribed standards with reasons</b>	<b>Standard</b>	<b>Reason</b>
	<b>Quantity</b>	<b>Concentration</b>	<b>%variation</b>		
TPM- Boiler Stack 1 (90+20 TPH)	282.67	38.33	57.49	150	00
SO2 Boiler Stack 2 (90+20 TPH)	113.64	15.41	0	--	00
TPM- Boiler Stack 2 (75 TPH)	262.76	35.63	53.44	150	00
SO2 Boiler Stack 2 (75 TPH)	29.85	12.47	0	--	00

**Part-D**

**HAZARDOUS WASTES**

**1) From Process**

<b>Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	3.57	2.64	KL/A

**2) From Pollution Control Facilities**

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

**Part-E**

**SOLID WASTES**

**1) From Process**

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

**2) From Pollution Control Facilities**

<b>Non Hazardous Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
Boiler Ash	4904.00	4158.24	MT/A
ETP Sludge	284	286	MT/A

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

<b>Waste Type</b>	<b>Total During Previous Financial year</b>	<b>Total During Current Financial year</b>	<b>UOM</b>
5.1 Used or spent oil	3.57	2.64	MT/A

**Part-F**

**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	2.64	KL/A	Concentration in liquid form

### 2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Boiler Ash	4158.24	MT/A	Solid
ETP Sludge	286	MT/A	Semi-Solid

## Part-G

### 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)
---	0	0	0	0	0	0

## Part-H

### 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	Capital Cost	510
Air pollution Control Equipment	Capital Cost	1103
Environmental Monitoring	Capital Cost	31.15
Green Belt Development	O & M Cost per year	24.01

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

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
--	00	0.00

## Part-I

### Any other particulars for improving the quality of the environment.

#### Particulars

A massive tree plantation has been done at factory site to minimize the frequency of air pollution. There are 69279 no. of trees are planted in and around the karkhana area. In that 99% of trees are good survival. This plantation contains dust, SO<sub>2</sub>, CO & CO<sub>2</sub> tolerant plants. Which also helps in keeping macro & micro climatic conditions ultimately clean Environment.

#### Name & Designation

M.G. Joshi , Managing Director

#### UAN No:

MPCB-ENVIRONMENT\_STATEMENT-0000055363

#### Submitted On:

21-07-2023

Annexure – XVIII  
Newspaper Advertisement

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## जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी

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

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

### जवाहर कारखान्यास इन्हीरॉनमेंटल किलरन्स प्राप्त

जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी या कारखान्याने प्रस्तुतच्या ऊस गाळप क्षमतेचे प्रतिदिन १२००० मे.टनावरून 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 अनुसरून भारत सरकारचे पर्यावरण मंत्रालयाकडून कारखान्यास पत्र क्र. F.No.IA-J-11011/146/2020-IA II (I) दिनांक ०१ डिसेंबर, २०२० अन्वये इन्हीरॉनमेंटल किलरन्स मिळालेला आहे. सदरचा इन्हीरॉनमेंटल किलरन्स महाराष्ट्र प्रदुषण नियंत्रण मंडळ / समिती आणि पर्यावरण मंत्रालयाचे वेबसाईटवर व <https://parivesh.nic.in/> वर पहाण्यासाठी उपलब्ध आहे. प्रसिद्धीकरिता जाहीर नोटीस.

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### **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/>