Covering Letter

KALLAPPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.,

Hupari-Yalgud 416 203, Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra)
Phone (0230) 2450402 to 06 E-mail : kprjsssk@gmail.com Website : www.kallappannaawadejawaharsssk.com

Ref. No. MFG/ ETP / 696 /2025-2026 Date: - 3 /05/2025

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 reports for the period October 2024 to March 2025 w.r.t Establishment of 100 KLPD B & C Heavy Molasses/Sugarcane Juice based Distillery – **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.**, Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, MS.

Ref.: Environmental Clearance (EC) granted by MoEFCC vide. LetterF.No.IA-J-11011/326/2019-IA II (I) Dated 03.07.2024.

Dear Sir,

This has reference to Environmental Clearance (EC) granted to the industry regarding Establishment of 100 KLPD B & C Heavy Molasses/Sugarcane Juice based Distillery – **M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.**, Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, MS.

As per General **Condition No. 1-7** in EC letter, we are submitting a six-monthly compliance report for a period of **October 2024 to March**2025.

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 – eccompliance-mh@gov.in
   Eccompliance-mh@gov.in

2. Sh. Pratik D. Bharane,
   Scientist 'E'
   Central Pollution Control Board,
   Pune.
   Email – pratik.cpcb@gov.in

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

Environmental Clearance Letter

File No: IA-J-11011/326/2019-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Date **03/07/2024**

To,

Sh. Manohar G Joshi
M/s JAWAHAR SHETKARI SAHKARI SAKHAR KARKHANA LTD HUPARI
Jawahar Shetkari Sahkari Sakhar Karkhana Ltd. Hupari, Tal- Hatkanagale,Dist- Kolhapur ,
KOLHAPUR, MAHARASHTRA, Kagal-Ichalkaranji Road, 416203
shitalchougule.jssskl@gmail.com

Subject: **Establishment of 100 KLPD B & C Heavy Molasses/ Sugarcane Juice based Distillery located at Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur, Maharashtra by M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. (JSSSKL) – Consideration of Environment Clearance reg.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/MH/IND2/434533/2023 dated 13/09/2023 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23B2501MH5708797N
(ii) File No.	IA-J-11011/326/2019-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	5(g) Distilleries
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Establishment of 100 KLPD B & C Heavy Molasses / Sugarcane Juice based Distillery by M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. (JSSSKL) located at ocated at Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur, Maharashtra.
(viii) Name of Company/Organization	JAWAHAR SHETKARI SAHKARI SAKHAR KARKHANA LTD HUPARI
(ix) Location of Project (District, State)	KOLHAPUR, MAHARASHTRA
(x) Issuing Authority	MoEF&CC

(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for 100 KLPD B & C Heavy Molasses/ Sugarcane Juice based Distillery located at: Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur, Maharashtra by M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. (JSSSKL).

4. As per the provision of "EIA Notification No. S. O. 1533 (E)" dated 14.09.2006 as amended vide Notification dated 25.06.2014, the proposed project is listed as activity 5 (g)– Distillery; Category 'B1' and is appraised at Central Level by Expert Appraisal Committee (EAC) due to applicability of General Condition i.e., Maharashtra Karnataka Interstate boundary located within 5 Km of study area.

5. The details of products and capacity are placed in Annexure-II.

6. Ministry has issued Environmental Clearance to the Expansion of Sugar Factory from 12,000 TCD to 16,000 TCD by M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. vide File No. J-11011/146/2020-IA-II (I) dated 01.12.2020 and Expansion of Sugar Factory from 5,000 TCD to 7,500 TCD & Cogeneration Plant from 24 MW to 28.5 MW by M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. vide File No. J-11011/146/2020-IA-II (I) dated 25.10.2021. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Nagpur vide File no. EC-1581/RON/2022-NGP/10245 dated 30.08.2022. Action Taken Report has been submitted to IRO, MOEFCC, Nagpur dated 12.09.2023 for partial compliances. EAC was satisfied with response of PP.

7. Standard Terms of Reference have been obtained vide F. No. IA-J-11011/326/2029-IA-II(I) dated 11.11.2019. It was informed that there is a litigation pending against the project. The Court Case was filed by MPCB on 23.11.2016 against the excess crushing carried out by the project during 2015-16 allotting regular Criminal case No.246/2018. The case is pending before the Chief Judicial Magistrate; Ichalkaranji, Kolhapur.

Public Hearing for the proposed project had been conducted by the Maharashtra Pollution Control Board on 28.01.2021 at Project Site chaired by ADM; Kolhapur. The main issues raised during the public hearing and their action plan are placed in Annexure-III.

8. No additional land will be acquired for the proposed distillery project as the same will be done within existing plant premises of 99.56 Ha which is under possession of Industry. Greenbelt developed in total area of 39.37 Ha i.e. 39% of total project area. Committee advised PP to focus on green belt development along the periphery / boundary of the plot area. The industry will have to plant 15000 no. of more trees to augment and densify the GB area. Earlier the number of new trees to be planted was 29000, which now will be 44000 after the implementation of all the revisions suggested by the Committee. PP informed that proposed additional greenbelt will be achieved by October, 2024. The estimated project cost is Rs. 160 Crores. Capital cost of EMP would be Rs. 23.0 Crores and recurring cost for EMP would be Rs. 2.0 Crores per annum. Industry proposes to allocate Rs. 1.50 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after proposed project will be 1373 persons as direct & indirect. PP has submitted a copy of NOC No. DB/5736/2022 dated 19 July, 2022 from Executive Engeneer PWD, Kolhapur regading Road passing through project site.

9. There are no national parks, wildlife sanctuaries, ESZ, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, Reserve Forests/Protected Forests etc. within 10 km distance. Conservation plan for schedule I species has been submitted to Chief Wildlife Warden; Nagpur dated 11.11.2022 and a budget of 0.3 Crores has been earmarked for the same. However, Maharashtra-Karnataka Inter State boundary is at a distance of 2 Km in South East direction. Water bodies: Dudhganga River & Panchganga River is at 4 Km. PP has submitted a copy of NOC dated 27 July, 2022 from Executive Engeneer Dudhganga Canal Division No.1, Kolhapur regading canal passing through project site.

10. Ambient air quality monitoring was carried out at 8 locations during January 2022 to March 2022 and the baseline data indicates the ranges of concentrations as: PM10 (56.3– 62.9 µg/m3), PM2.5 (17.1 – 24.2 µg/m3), SO2 (13.9 – 17.4 µg/m3) and NOX (16.5 – 22.6 µg/m3). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.054 µg/m3, 0.014 µg/m3, 4.62 µg/m3 and 0.953 µg/m3 with respect to PM10, PM2.5,

SO2 and NOX. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. Total fresh water requirement for distillery will be 326 CMD which will be met from Dudhganga River. NOC has been obtained by Irrigation Department, Kolhapur vide letter dated 03.05.2018. Effluent of 865 CMD quantity will be treated through Condensate Polishing Unit. Raw spent wash to the tune of 800 CMD shall be generated. Same will be forwarded to MEE followed by incineration. STP is installed to treat sewage generated from factory premises. The plant will be based on Zero Liquid discharge system and no effluent/treated water will be discharged outside factory premises.

12. Power requirement will be 3 MW and will be met from own turbine. 40 TPH Spentwash & Coal/ Bagasse fired boiler will be installed. APCE ESP with a stack of height of 75 M will be installed for controlling the particulate emissions within the statutory limit of 30 mg/Nm3 for the proposed boiler. Existing sugar factory has 20 TPH & 90 TPH Bagasse fired boilers. APCE ESPs with common stack of height of 75 M is installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm3. APCE ESP with stack of height of 72 M is installed for 75 TPH Bagasse fired boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm3. Industry has 2 nos. of DG sets with capacity 1320 KVA & 515 KVA & proposed DG set with capacity 625 KVA which are used as standby during power failure and stack height 5 M & 4 M (ARL) is provided as per CPCB norms.

13. Details of Process emissions generation and its management:

• Total CO2 (75 TPD) is being/will be bottled and supplied to manufacturers of beverages /secondary uses.
• ESP will be installed with proposed boiler for controlling the particulate emissions within the statutory limit of 30 mg/Nm3
• Online Continuous Emission Monitoring System is being/will be installed with the stack and data will be transmitted to CPCB/SPCB servers.

14. Details of solid waste/Hazardous waste generation and its management:

a. Solid Waste:

• Establishment of distillery- Boiler ash 1350 T/M; Potash recovery, Yeast sludge 600 T/D & CPU sludge 30 T/M; used as manure.
• Existing of sugar factory- Solid waste generated in the form of ETP sludge 90 T/M; used as manure. Boiler ash 1050 T/M; used as manure/ brick manufacturing.

b. Hazardous Waste:

• From Sugar & Distillery unit- Spent Oil 0.6 MT/Yr.; to authorized reseller.

15. During deliberations, EAC discussed following issues:

1. PP informed that ongoing court case is filed by MPCB against industry for excess crushing done during 2016. In this regard, EAC opined that as case of excess sugarcane crushing is a case of violation and here the action as stated in MoEF&CC OM dated 08.01.2024 may be applicable for the instant proposal. PP has clarified that the Court Case was filed by MPCB on 23.11.2016 against the excess crushing vide reference - Regular Criminal Case No. R.C.C / 181/18/2016 and now the case has been transferred from Kolhapur court to Ichalkaranji court vide No 244/2018 and is Pending before Chief Judicial Magistrate; Ichalkaranji, Kolhapur. Environmental Clearance was granted by MoEFCC for Expansion of Sugar Factory from 12,000 TCD to 16,000 TCD vide letter No. IA-J-11011/146/2020-IA II (I) dt. 01.12.2020 as per then prevailing guidelines and OM dated 08.01.2024 regarding handling of violation cases shall not be applicable for Sugar Factory EC and proposed distillery project.

2. EAC noted that there is a school just beside the proposed plot. In this regard, PP has informed that in the Sugar Factory premises, one seasonal school called as “Sakhar Shala” is run by the Sugar Factory for the children of cane harvesting labours who have to leave their native place and stay in factory premises for about 6 months during the crushing season period.

3. All the signatures of Functional Area Experts involved in the collection of baseline and preparation of EMP are cut pasted from elsewhere. PP shall submit hand signed declaration of all the FAEs & EIA coordinators of the EMP along with tenure of involvement in the project.

PP agreed to abide by all the above suggestions made the committee. Further, Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information except point no (3). EAC found the information/commitments above satisfactory.

16. EAC recommended the project subject to submit desired information point (3) of the deliberations part above. Accordingly, Ministry raised ADS to PP on 15.05.2024 stating that "As per the MoM dated 09.05.2024, this proposal has been Recommended Subject to the submission of requisite information/ documents. It was noted by the EAC that all the signatures of Functional Area Experts involved in the collection of baseline and preparation of EMP are cut and pasted from elsewhere. PP shall submit a hand-signed declaration of all the FAEs & EIA coordinators of the EMP along with the tenure of involvement in the project". PP has submitted ADS reply dated 23.05.2024 with the sign of all functional Area Experts involved in the collection of baseline and preparation of EMP.

17.The proposal was considered by the EAC (Meeting ID: EC/AGENDA/EAC/315544/4/2024) held on 23rd – 24th April, 2024 in the Ministry, wherein the project proponent and the accredited Consultant M/s. Equinox Environments (I) Pvt. Ltd. (NABET certificate no. NABET/EIA/2124/SA 0177 and validity 10.10.2024), presented the case. The Committee recommended the project for grant of environmental clearance.

18. 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 the EIA/EMP 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.

19. 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 is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

20. 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.

21. 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 for establishment of 100 KLPD B & C Heavy Molasses/ Sugarcane Juice based Distillery located at Shri Kallappanna Awadenagar, Hupari-Yalgud, Tal.-Hatkanangale, Dist.-Kolhapur, Maharashtra by M/s. Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. (JSSSKL), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

22. 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.

23. 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 Environment (Protection) Act, 1986.

24. 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.

25. The above conditions will 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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

26. This issues with the approval of the competent authority.

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. Compliance and Monitoring Division, 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

Annexure 1

Specific EC Conditions for (Distilleries)

1. Distilleries

S. No	EC Conditions
1.1	The project proponent shall abide by all orders and judicial pronouncements made from time to time in the case filed by MPCB against industry for excess crushing done during 2016 pending before Chief Judicial Magistrate; Ichalkaranji, Kolhapur.
1.2	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 (Annexure-IV).
1.3	EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
1.4	NOC from the Concerned Local authority shall be obtained before start of the construction of the

S. No	EC Conditions
	plant and drawing surface water. State Pollution Control Board shall not issue the Consent to Operate (CTO) under the Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission. No groundwater shall be used for the plant operations without permission from the Concerned authority.
1.5	The total fresh water requirement during the crushing season shall be Nil for Sugarcane Crushing Unit, distillery & Cogeneration Unit & only 10 kld of water shall be consumed for domestic purposes. During non-crushing season fresh water requirement shall not exceed 326 kld which shall be met from Dudhganga River. Treated effluent from the sugar unit shall be used in distillery to reduce fresh water requirement. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
1.6	Spent wash shall be concentrated in Multi Effect Evaporator and concentrated spent wash shall be dried for powder formation. Spent Wash/stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc., shall be treated in the 'Condensate Polishing Unit' (CPU).
1.7	Efficient CPU shall be installed for the sugar unit to recycle the treated effluent to be used in the distillery unit. PP shall upgrade the existing CPU of sugar unit by adding RO in order to recycle the treated condensate for the distillery process. STP of 20 KLD capacity shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside the factory premises. PP shall ensure that spent wash shall not be treated through bio composting method. Sludge drying beds shall be replaced with filter press.
1.8	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be conducted on monthly basis and report submitted to SPCB and RO, MOEFCC. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office.
1.9	ESP as APCE has been installed with common stack of height 75 m with the proposed 90 TPH & 20 TPH bagasse-fired boilers in the sugar industry for controlling the particulate matter emissions within the limit of 50 mg/Nm3. APCE ESP with stack of height of 72 M has been installed with 75 TPH Bagasse-fired boiler for controlling the particulate emissions within the limit of 50 mg/Nm3. APCE ESP with a stack of height of 75 m shall be installed with the proposed 40 TPH spent wash/coal-fired boiler for controlling the particulate matter emissions within the limit of 30 mg/Nm3. Coal of Sulphur content less than 0.5 % shall be used for boiler. The SO2 and NOx emissions from the boiler shall be maintained within the limit of 100 mg/Nm3. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.
1.10	Boiler ash 1350 Tonnes per month from sugar factory shall be used as manure. Boiler ash 1050 Tonnes per month from distillery shall be stored in close silos and sent to brick manufacturing units in covered trucks or bulkers. PP shall install equivalent of 15% of the total power requirement in the form of solar power inside plant premises/adjacent/nearby areas.

S. No	EC Conditions
1.11	CO2 (75 TPD) shall be collected by utilizing CO2 scrubbers and it shall be collected in proposed bottling plant.
1.12	PP shall allocate at least Rs. 1.00 Crores as capital expenditure and Rs. 0.10 Crores as recurring expenditure for Occupational Health Safety. 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.
1.13	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
1.14	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. PESO certificate shall be obtained. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary.
1.15	Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.
1.16	Company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.
1.17	Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for incineration. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
1.18	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.
1.19	Greenbelt in total area of 39.37 Ha i.e. 39% of total project area has been developed in the Industry. As committed, Industry densify green belt development along the periphery / boundary of the plot area. The industry shall plant 15000 no. of more trees to augment and densify the GB area making total 44000 trees in the Industry by October, 2024. Indigenous species shall only be planted as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall plant at least 20 variety of species as part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be planted. Records of tree canopy shall be monitored through remote sensing map. The industry shall not cut any of the existing 78 trees located in the plant premises and ensure their protection. Industry shall develop greenbelt of 10 m width on both sides of all the 03 nalas which

S. No	EC Conditions
	are passing through the proposed site. Further, greenbelt shall be thickened towards the nearest villages i.e., Muddaballi located at a distance of 0.25 Km (E) and Gondabala located at a distance of 0.74 Km (SW)and towards the School located at 0.40 Km (E) Greenbelt development shall be completed before commissioning of the plant.
1.20	PP proposed to allocate Rs. 1.50 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan (Annexure-V) for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.
1.21	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. At least 15% of total project area shall be allotted solely for parking purposes with facilities like rest rooms etc. The industry shall widen and strengthen the Madhuballi village road to 15 meters, which connects the proposed plant site to the nearest highway and also maintain it.
1.22	Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
1.23	Continuous online (24x7) monitoring system for stack emissions/effluent 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.
1.24	Ambient air quality shall be monitored at least at 03 locations around the plant as per CPCB guidelines to assess the impact of emissions in the nearby villages.
1.25	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. EMC head shall report directly to Head of Organization/ Director/CEO as per company hierarchy.
1.26	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of single-use plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to the concerned authority.

Standard EC Conditions for (Distilleries)

1. General Conditions

S. No	EC Conditions
1.1	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, 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, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.5	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.
1.6	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.
1.7	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.
1.8	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
1.9	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

S. No	EC Conditions
	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.
1.10	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.
1.11	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.

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Ethanol/ ENA/ RS	Product	100	Kilo Litre per Day (KLD)	Road	
Co2	By-Product	75	MT/Day	Road	
Electricity Generation from Incineration Boiler	By-Product	3	Mega Watt (MW)	Grid	
Fusel Oil	By-Product	0.2	MT/Day	Road	

Annexure –II

The details of products and capacity are as under:

No.	Unit	Product/By Product	Quantity (MT/D)
1	100 KLPD Distillery Unit	Rectified Spirit (RS)/ Extra Neutral Alcohol (ENA)/ Ethanol	100 KLPD
		Fusel Oil	0.2
		CO_2	75
		Electricity	3 MW

Annexure –III

The main issues raised during the public hearing and their action plan:

No.	Issues in Brief	Action Plan in Brief	Budget Allocated & Timeline
1	**Shri. Sanatkumar Paygonda Bhojkar**, Former Sarpanch, Village Talandage, Tal. Hatkanangle, Dist. Kolhapur. Whether the proposed project will cause water, air and noise pollution? To control it, what kind of equipments will be installed?	**Response:** Consultant replied that that not a single drop of the waste water will be let outside, spent wash will be burnt in proposed incineration boiler, to control air pollution measures will be taken as informed during presentation, there is no problem of noise pollution in distillery, and hence, there is no need to worry about. **Action Plan:** • Raw Spent to the tune of 800 M^3/Day shall be concentrated in MEE and further the Conc. Spent wash to the tune of 160 M^3/Day shall be burnt in incineration boiler. Whereas other effluents to the tune of 865 M^3/Day viz. Spent Leese, boiler blow down, cooling etc. shall be treated in Condensate Polishing Unit (CPU). Treated effluent from CPU will be recycled back in process. • For proposed 40 TPH Incineration boiler ESP will be installed as APC equipment with adequate stack height of 75 M. • Further, as far as noise	**Budget:** Funds allocated towards Environment Protection measures under proposed distillery for prevention of water pollution, Air pollution and Noise Pollution is Rs.1850 Lakh. **Timeline:** Environmental protection measures shall be implemented after grant of EC and before CTO procurement.

No.	Issues in Brief	Action Plan in Brief	Budget Allocated & Timeline
		pollution is considered, to abate the pollution Separation, insulation, isolation techniques shall be followed. PPE's shall be provided to workers.	
2	**Shri, Sarjerao Devappa Hande,** Village Hupari, Dist. Kolhapur How many workers will be required for the proposed project?	**Response:** Shri Manohar Joshi, Managing Director of M/s Jawahar Shetkari S.S.K Limited said the proposed project would require a total of 90 people for the posts of officers and workers which includes distillery in-charge, supervisors, boiler operators etc and the factory management has decided to recruit all of them from local residents.	--
3	**Shri Prakash Jadhav**, Village Hupari, Tal. Hatkanangle, Dist:Kolhapur. How much alcohol will be produced per day from proposed distillery? Factory Management should have gone for more production than 100 KLPD.	**Response by:** Project Environment Consultant answered that one lakh liters of alcohol will be produced daily. Consultant said that at present, permission will be sought for the production of one lakh liters of alcohol per day. After two years, five lakh liters of alcohol will be produced per day. At present, the production can be increased by 35 percent. Shri. Jadhav said that this cost would go up at that time, so we should increase production now. Shri. Manohar Joshi, Managing Director, said that currently, the proposed project will produce one lakh liters per day of ethanol at a cost of Rs 125 crore. If it is to be increased, the members will have to increase their capital and the loan will be raised accordingly. Hence, the factory management will decide to increase the production step by step as per the support of the farmers and profitability.	--

No.	Issues in Brief	Action Plan in Brief	Budget Allocated & Timeline
4	**Shri. Uday Patil**, Hupari Tal. Hatkanangale, Dist. Kolhapur. What by-products will be produced from the proposed project?	**Response:** Project Environment Consultant replied that alcohol, carbon dioxide and fusel oil will be produced. Spent wash will be burnt in the boiler and its ash will be supplied for bricks manufacturing industry. In this way, money will he earned from all above products.	--
5	**Mrs. Revati Manoj Patil** Corporator, Tal: Hatkanangale, Kolhapur. What is your plan of spentwash incineration?	**Response:** Consultant answered that spent wash will be burnt in incineration boiler which will continuously run for 330 days. **Action Plan:** Incineration boiler will be installed under proposed distillery. Raw Spent wash shall be concentrated in MEE and further the concentrated Spent wash shall be burnt in the incineration boiler. For proposed Incineration boiler ESP will be installed as APC equipment with adequate stack height of 75 M.	**Budget:** Funds allocated towards Air pollution control measure under proposed distillery are Rs.750 Lakh which includes cost towards Stack, ESP , OCMS, and CO_2 bottling. **Timeline:** Environmental protection measures shall be implemented after grant of EC and before CTO procurement
6	**Shri. Sunanda Reddy,** Environmentalist, State Andhra Pradesh. My best wishes to M/s. Jawahar SSSK Ltd. First of all, I congratulate the factory management for the proposed project. M/s. Equinox Environments (I) Pvt. Ltd. is an experienced environment consultant who has prepared environmental impact assessment report. The presentation given by them is excellent. I am the first environmentalist in India	**Response:** Consultant stated that almost points raised Sunanda Reddy have been discussed while presentation, a plan regarding green belt development has been submitted and information about C.S.R have already provided in the Environmental Impact Assessment Report. **Action Plan:** Under Existing Sugar Factory a Green belt has been developed in an area of 39.37 Ha which accounts to 39 % of TPA . Under establishment of distillery densification of existing green belt shall be done as per the norm of 2500 Nos.	**Budget**: Funds allocated towards densification of Existing Green belt is Rs. 200 Lakh and that of CER is Rs.125 Lakh

No.	Issues in Brief	Action Plan in Brief	Budget Allocated & Timeline
	who support distillery because unemployment is a major problem in our country. There are crores of unemployed people in our country. I am requesting the Environmental Public Hearing Committee to recommend to the Ministry of Environment, Forests and Climate Change to give unconditional permission to the proposed project. At the same time, I am giving few suggestions to the environmental consultant and the factory management. Your green belt is as per the government norms but I request to plant fruit bearing trees and medicinal plants instead of normal plants. Priority should be given to village plantation and avenue plantation. Collect the data of health status of viilagers within 10 kms, crops and raw material. With the help of government promote the farmers encourage drip irrigation, sprinkler irrigation to save water. Form a committee of villagers, government officers and industry officers for CSR, generate demand oriented work. Finally, I request to give unconditional permission to the proposed distillery.	Tress / Ha. Further, under distillery establishment an amount of Rs.120 Lakh has been earmarked towards CER Activities.	
7	**Mrs. Shalan Raosaheb Patil** Sarpanch**,** Village Ingli, Hatkanangale, Dist.Kolhapur How much spent wash will produced from proposed	**Response & Action Plant:** Project Consultant replied that 100 KLPD production alcohol 800 KLPD spent wash will generated. **Action Plan :** Raw Spent to the tune of 800 M^3/Day shall be	**Budget:** Funds allocated towards Water Pollution prevention is Rs.1050 Lakh . **Timeline:** Environmental protection measures

No.	Issues in Brief	Action Plan in Brief	Budget Allocated & Timeline
	distillery?	shall be concentrated in MEE and further the Conc. Spent wash to the tune of 160 M^3/Day shall be burnt in incineration boiler. Whereas other effluents to the tune of 865 M^3/Day viz. Spent Leese, boiler blow down, cooling etc. shall be treated in Condensate Polishing Unit (CPU). Treated effluent from CPU will be recycled back in process.	shall be implemented after grant of EC and before CTO procurement
8	**Shri. Ananda Dhondiba Mali,** village Yalgud, Tal: Hatkanangale, Dist. Kolhapur. For how many days will the distillery operate in a year?	**Response:** Project Consultant replied that in a year, the proposed distillery will operate for 330 days.	
9	**Shri. Rajaram Annappa Salgar,** village Yalgud. Tal. Hatkanangle. Approximately how much water will be required for proposed distillery?	**Response:** Project Consultant stated that total water requirement for 330 days molasses based distillery will be 1158 CMD out of which fresh water will be 253 CMD. No water is required for sugarcane juice based distillery as we are going to use sugarcane water for the distillery Sugar plant runs for 150 days during which we will use water present in sugarcane, and for remaining 160 to 170 days fresh water. Will be used thereby saving 78 to 80% of fresh water. **Action Plan:** The total water required for proposed Distillery during Non-crushing season is 1385 M^3/Day. Out of the same only 326 M^3/Day (23%) is the fresh water requirement to be taken from Dudhganga River and the remaining water to the tune of 1059 M^3/Day (77 %) is	**Budget:** Funds allocated towards Water Pollution and recycling facility is Rs. 1050. The same includes Cost towards CPU, MEE etc. **Timeline:** Environmental protection measures shall be implemented after grant of EC and before CTO procurement

No.	Issues in Brief	Action Plan in Brief	Budget Allocated & Timeline
		the treated water from Distillery CPU and Cane Condensate.	
10	**Mr. Sudarshan,** Environmentalist Mr. Sudarshan submitted a written representation	**Response:** Appreciation by Locals	
11	**Shri. Appasaheb Bhimgonda Patil,** Yalgud, Tal: Hatkanangle, How are you going to dispose the spentwash that will be generated from proposed distillery?	**Response:** Project Consultant replied that the spent wash will be completely converted into ash, 12 kg of powder will be made from 100 liters of spent wash and remaining water will be reused in the process, hence, the project will be zero liquid discharge. **Action Plan:** Raw Spent to the tune of 800 M^3/Day shall be shall be concentrated in MEE and further the Conc. Spent wash to the tune of 160 M^3/Day shall be burnt in incineration boiler. Whereas other effluents to the tune of 865 M^3/Day viz. Spent Leese, boiler blow down, cooling etc. shall be treated in Condensate Polishing Unit (CPU). Treated effluent from CPU will be recycled back in process.	**Budget:** Funds allocated towards disposal of spent wash under proposed distillery is Rs. 1050 Lakh same includes the cost towards water prevention control measures (Spent wash tank, MEE, CPU, OCMS.) **Timeline:** Environmental protection measures shall be implemented after grant of EC and before CTO procurement
12	**Shri. Subhash Annaso Gotkhinde,** Former Sarpanch, Gram Panchayat Yalgud, Tal. Hatkanangle, Dist. Kolhapur. I am a farmer. My land is adjacent to the border of the factory on the south side. The sugar factory has been operating for the last 28 years but we have not suffered from any pollution in these 28 years	**Response:** Project Consultant said that previously spent wash diluted with water was used for ferti-irrigation purpose as per Consent of M.P.C. Board. I have seen that in Sangli district there was good crop production for first two years through ferti irrigation. But the agricultural lands turned saline due to TDS content in the spent wash. Due to sulphur, chlorides and salts agricultural lands become saline and do not grow crops Thereafter, ferti-irrigation was	**Budget:** Funds allocated towards CER is Rs. 125 Lakh. Out of Which 60 Lakh shall be spent on Photovoltaic Electricity Generation system in five villages. **Timeline:** CER shall be implemented after grant of EC

No.	Issues in Brief	Action Plan in Brief	Budget Allocated & Timeline
	due to the sugar factory. I congratulate the factory management for the proposed project. Taking into consideration sugar production and its demand in India, we must go for by-products.The proposed project will not cause any pollution. Sugar crushing capacity should also be increased to complete sugarcane season timely. Not only ethanol but also production of CNG, biofuel should be undertaken. Spent wash should be used for agriculture purpose through tankers, potash is used for agriculture, you are going to incinerate the spent wash, but there should be value addition. The unemployed youth from our villages should be recruited on top priority. The funds under C.S.R scheme should be utilized for our villages.Value addition products should be undertaken to improve the economic condition of the farmers.	stopped. Spent wash is acidic. But spent wash powder can be used on large area of agricultural land in decentralised manner **Action Plan:** As mentioned above in the spent wash shall be concentrated and incinerated in incinerator boiler. Further, Under CER, provision of solar Photovoltaic Electricity Generation system shall be done in Grampanchayat / School village / PHC of Hatkanagle village.	
13	**Shree Vilas Khanvilkar,** Former member of Zilla Parishad and member of sugar factory, village Rendal, Tal: Hatkanangale, Dist. Kolhapur. You provided detailed information about the proposed project during the presentation. Also provided information on the sources of pollution and measures to be taken for control of pollution. During the environmental public hearing which was conducted for expansion of sugar factory to 16000 TCD, I	**Response:** Appreciation by Locals	

No.	Issues in Brief	Action Plan in Brief	Budget Allocated & Timeline
	had requested the factory management to go for more crushing capacity. If we look at the current situation, the factory does not cause any pollution to us. You informed that the factory employs 1300 people, but in my opinion the factory has provided many jobs by way of goods transportation, grocery stores and other businesses. They are dependent on the factory. As you said, the proposed project will provide employment to 90 people. Environmental consultants have done a thorough study of the flora and fauna in the area. It is requested that after approval, the proposed project be started as soon as possible.		

Annexure –IV

Capital cost and recurring cost of EMP are given below:

Sr. No.	Description	Capital Cost in lacs	Recurring Cost in lacs/ Annum
A	**Proposed Project**		
1	APC Equipment – ESP, Stack (75 M), Ash collection system & OCMS, CO2 Bottling	750.00	50.00
2	Spentwash storage Tank, MEE, CPU, OCMS, CPU and ETP Upgradation under Sugar Factory	1050.00	100.00
3	Noise pollution Control	50.00	5.00
4	Envi. Monitoring & Management	50.00	10.00
5	Occupational Health & Safety	100.00	10.00
6	Densification of Green Belt	200.00	20.00
7	Covering of Bagasse Yard	100.00	10.00
	Grand Total	**Rs. 2300.0**	**Rs. 205.0**

Annexure - V

Details of extended EMP (CER) with proposed activities and budgetary allocation:

No	CER Activities	Rs. Lakh
1	**Arrangement of Drinking Water Supply Infrastructure: (6 Villages –** Halsawade, Rangoli, Talandge, Randivewadi, Jangamwadi, Mouje Sangaon **) :** Total 12 Nos. of Safe Drinking Water Units with Filtration, RO Module & Storage Tank, Piping, electrical control panel etc. with dispensing & metering systems. Capacity of 500 Lit/Hr each. 12 Nos. X Rs. 2.50 Lakhs / No = Rs. 30 Lakh	Rs. 30
2	**Solar Street Light: (6 Villages-** Kasba Sangaon , Mouje Sangaon, Yalgud, Ingali, Chandur, Pattan kodoli **) :** Provision of Solar Street Lights with gadget comprising of – 1 MS Pole, 18-20 W LED Lamp, Battery, Solar Panel, Wiring etc. complete. 6 Villages X 25 Nos/Village = 150 Solar Street Lights X Rs.30,000/- per No. = Rs. 45 Lakh	Rs. 45
3	**Solar Photovoltaic Electricity Generation Systems: (5 Villages-** Rendal, Yalgud, Hupari, Talandge, Randivewadi, Rangoli**)** Provision of 5 Solar Photovoltaic Electricity Systems (10 KW) at Grampanchayat/School Bldg. 3 Nos. X 10 KW X Rs.1 Lakh/KW = Rs. 30 Lakh	Rs. 30
4	**Educational Infrastructure:** Distance education infrastructure computers, Camera, Speakers, Wi-Fi connections & wiring: Rs. 20 Lakhs	Rs. 20
5	**Afforestation: (5 Villages-** Rendal, Pattankodoli, Jangamwadi, Halsawade,Kasba Sangaon **) :** 1000 Trees / Village X 5 Villages X Rs. 500 = Rs 25 Lakh.	Rs. 25
	Total Amount (1 % of Capital Cost)	**Rs. 150 Lakhs**

Pointwise compliance of 100 KLPD Distillery

	M/s. Jawahar Shetakari SSKL Establishment of 100 KLPD B & C Heavy Molasses/Sugarcane Juice based Distillery	
		Brief Summary of the Project
1	Name of Project	M/s. Jawahar Shetakari SSKL
2	Type of Project	Establishment of 100 KLPD B & C Heavy Molasses/Sugarcane Juice based Distillery
2	Clearance Letter No. & date	Located at, Tal.: Hatkanangale, dist.: Kolhapur Maharashtra
3	Location: District & State/UT	Located at, Tal.: Hatkanangale, dist.: Kolhapur Maharashtra
		Six Monthly Period
		October 2024 to March 2025
No.	**Environmental Clearance Conditions**	**Compliance towards the Conditions Stipulated**
A	**SPECIFIC CONDITIONS**	
1	**Condition No. I**	
	The project proponent shall abide by all orders and judicial pronouncements made from time to time in the case filed by MPCB against industry for excess crushing done during 2016 pending before Chief Judicial Magistrate; Ichalkaranji, Kolhapur.	Noted
2	**Condition No. II**	
	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 (Annexure-IV).	Industry hereby assure that all the environmental protection measures and safeguards proposed in the EMP report submitted during procurement of EC will be strictly followed.
3	**Condition No. III**	
	EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.	The establishment of the distillery will take place in the existing sugar factory and Cogeneration premises. Total land acquired by industry is 99.56 Ha. The land was converted from agriculture to industrial purpose.
4	**Condition No. IV**	
	NOC from the Concerned Local authority shall be obtained before start of the construction of the plant and drawing surface water. State Pollution Control Board shall not issue the Consent to Operate (CTO) under the Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission. No groundwater shall be used for the plant operations without permission from the Concerned authority.	The total freshwater requirement is 326 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/4944/2024. Dated **04.05.2024 valid up to 30.04.2030**. Copy water lifting permission from the irrigation department is enclosed at **Annexure-I.** Ground water will not be use as fresh water source.
5	**Condition No. V**	
	The total fresh water requirement during the crushing season shall be Nil for Sugarcane Crushing Unit, distillery & Cogeneration Unit & only 10 kld of water shall be consumed for domestic purposes. During non-crushing season fresh water requirement shall not exceed 326 kld which shall be met from Dudhganga River. Treated effluent from the sugar unit shall be used in distillery to reduce fresh water requirement. No ground water recharge shall be permitted within the premises. Industry shall construct a rain water storage pond and the accumulated water to be used as fresh water thereby reducing fresh water consumption.	Total Fresh water requirement for distillery unit is 326 CMD which is not more than that of the approved in EC letter. Industry has been granted permission for fresh water withdrawal from Dudhganga river from irrigation department vide no. Kopavi (U)/Prasha 3/(37)/bigarsinchan/4944/2024. Dated **04.05.2024 valid up to 30.04.2030.** Water lifting permission is enclosed at **Annexure –I.** The industry has implemented Rainwater Harvesting system. The collected rainwater is being used for gardening & firefighting purposes.
6	**Condition No. VI**	

	Spent wash shall be concentrated in Multi Effect Evaporator and concentrated spent wash shall be dried for powder formation. Spent wash / stillage shall be sent to the decanter followed by the Multiple Effect Evaporator and dryer to form DDGS. The MEE & Drier condensate, spent lees, WTP Rejects, Boiler & Cooling tower blowdowns, washings etc. shall be treated in the 'Condensate Polishing Unit' (CPU).	Raw spentwash from molasses-based operations to the tune of 800 CMD shall be concentrated in MEE. Further, the Conc. Spentwash to the tune of 160CMD shall be burnt in incineration boiler. Whereas, Raw spentwash from cane juice based operations to the tune of will be 400CMD, shall be concentrated in MEE. Further, the Concentrated Spentwash to the tune of 80 CMD shall also be burnt in incineration boiler. Other Effluent to the tune of 865 CMD from molasses based operations shall be treated in CPU. Whereas, Other Effluent to the tune of 493 CMD from cane juice-based operations shall also be treated in CPU. Treated effluent from CPU will be recycle in process for dilution of molasses as well as cooling make up. Thereby, achieving Zero Liquid Discharge (ZLD).
7	**Condition No. VII**	
	Efficient CPU shall be installed for the sugar unit to recycle the treated effluent to be used in the distillery unit. PP shall upgrade the existing CPU of sugar unit by adding RO in order to recycle the treated condensate for the distillery process. STP of 20 KLD capacity shall be installed to treat domestic wastewater. The plant will be based on 'Zero Liquid Discharge' system and no effluent/treated water will be discharged outside the factory premises. PP shall ensure that spent wash shall not be treated through bio composting method. Sludge drying beds shall be replaced with filter press.	Raw spentwash from molasses-based operations to the tune of 800 CMD shall be concentrated in MEE. Further, the Conc. Spentwash to the tune of 160CMD shall be burnt in incineration boiler. Whereas, Raw spentwash from cane juice based operations to the tune of will be 400CMD, shall be concentrated in MEE. Further, the Concentrated Spentwash to the tune of 80 CMD shall also be burnt in incineration boiler. Other Effluent to the tune of 865 CMD from molasses based operations shall be treated in CPU. Whereas, Other Effluent to the tune of 493 CMD from cane juice-based operations shall also be treated in CPU. Treated effluent from CPU will be recycle in process for dilution of molasses as well as cooling make up. Thereby, achieving Zero Liquid Discharge (ZLD). Total domestic effluent from Industrial campus shall be (from Sugar Factory & Cogen Plant including Canteen and distillery) same treated in existing STP will be used for green belt development in own factory premises.
8	**Condition No. VIII**	
	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up. Sampling and trend analysis monitoring must be conducted on monthly basis and report submitted to SPCB and RO, MOEFCC. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total Dissolve Solids shall be monitored and report submitted to the Ministry's	Monitoring of ground water is done through an approved laboratory - Green Envirosafe . Further, Record of the same is maintained on site.

9	**Condition No. IX**	
	ESP as APCE has been installed with common stack of height 75 m with the proposed 90 TPH & 20 TPH bagasse-fired boilers in the sugar industry for controlling the particulate matter emissions within the limit of 50 mg/Nm3. APCE ESP with stack of height of 72 M has been installed with 75 TPH Bagasse-fired boiler for controlling the particulate emissions within the limit of 50 mg/Nm3. APCE ESP with a stack of height of 75 m shall be installed with the proposed 40 TPH spent wash/coal-fired boiler for controlling the particulate matter emissions within the limit of 30 mg/Nm3. Coal of Sulphur content less than 0.5 % shall be used for boiler. The SO2 and NOx emissions from the boiler shall be maintained within the limit of 100 mg/Nm3. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/ systems will be conducted annually.	In the proposed distillery unit, 40 TPH boiler will be installed which will operated on spent wash & Coal/Bagsses. ESP will be used as APC followed by 75 M stack. Under exisiting sugar factory has 20 TPH & 90 TPH bagasses boiler.Regular monitoring of existing stack is carried out through an NABL-approved laboratory. All parameters within limit. Same practice will be followed after the commissioning of distillery unit. Industry has 2 Nos. of DG sets with capacity 1320 KVA & 515 KVA And under distilley having capacity 625 KVA. In case of a power failure situation, the DG sets are started automatically.
10	**Condition No. X**	
	Boiler ash 1350 Tonnes per month from sugar factory shall be used as manure. Boiler ash 1050 Tonnes per month from distillery shall be stored in close silos and sent to brick manufacturing units in covered trucks or bulkers. PP shall install equivalent of 15% of the total power requirement in the form of solar power inside plant premises/adjacent/nearby areas.	Acknowledged. Presently, ash generated from sugar factory is collected separately and taken to ash silo system & given for use as manure. After establishment of distillery, same practice will be followed. Water sprinkling arrangement will be made to avoid suspension of fly ash into the air.
11	**Condition No. XI**	
	CO2 (75 TPD) shall be collected by utilizing CO2 scrubbers and it shall be collected in proposed bottling plant.	Acknowledged. After commissioning of the project PP sincerely follow the Condition.
12	**Condition No. XII**	
	PP shall allocate at least Rs. 1.00 Crores as capital expenditure and Rs. 0.10 Crores as recurring expenditure for Occupational Health Safety. 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.	Under existing unit Occupational health surveillance is done once in a year and the record of the same are kept on site. Also, submit the record to ministry through six-monthly compliance report. Latest health checkup camp was carried out on 09.09.2024. 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 & through medical camps. Latest health check-up carried out 09.09.2024. Same practice will be followed after the establishment of the distillery unit. Reports & photographs of PHC facility are attached at **Annexure -II.**
13	**Condition No. XIII**	
	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.	Under existing unit, Trainings for employees on safety and health aspects are organized from time to time. Also, medical examination for all employees is arranged on regular basis. Industry regularly conducts mock drills. Same will be followed after the establishment of the distillery unit. Detailed safety training and mock drill conducted on 04.03.2025 is enclosed at **Annexure-III.**
14	**Condition No. XIV**	
	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. PESO certificate shall be obtained. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant i.e. the risk should be tolerable (acceptable) at the boundary.	Under the existing complex, Fire hydrant system is installed at the manufacturing area and at other required area. Same will be followed after the establishment of the distillery unit.
15	**Condition No. XV**	

	Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.	PP agree to comply. The Sulphur used in process operations for sugar manufacturing is brought in pellet form, filled in bags. The bags are stored in covered shed. Further, Regular training and mock drills are conducted for employees on safety and health aspects of chemical handling.Latest mock drill was conducted in 04.03.2025.
16	**Condition No. XVI**	
	Company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal radiation so that during any unforeseen situation fire hydrant is always available to operate manually.	For the ethanol storage tank fire hydrant line will be kept at a distance mentioned as per OISD 117 Rules. No any hazardous substance/ Chemical will be stored other than ethanol in the premises. These products are stored on site as per PESO rules. Also, after commissioning of expansion project, PESO license will be procured for same.
17	**Condition No. XVII**	
	Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for incineration. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.	This is an agro based industry. Hence, process organic residue and spent carbon, process inorganic & evaporation salt etc. are not generated. ETP, CPU sludge & boiler ash will be generated as a solid waste. Boiler ash and ETP Sludge which are sold to farmer for used as manure.
18	**Condition No. XVIII**	
	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.	Industry will implementing the condition, after completion of project.
19	**Condition No. XIX**	
	Greenbelt in total area of 39.37 Ha i.e. 39% of total project area has been developed in the Industry. As committed, Industry densify green belt development along the periphery / boundary of the plot area. The industry shall plant 15000 no. of more trees to augment and densify the GB area making total 44000 trees in the Industry by October, 2024. Indigenous species shall only be planted as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall plant at least 20 variety of species as part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be planted. Records of tree canopy shall be monitored through remote sensing map. The industry shall not cut any of the existing 78 trees located in the plant premises and ensure their protection. Industry shall develop greenbelt of 10 m width on both sides of all the 03 nalas which are passing through the proposed site. Further, greenbelt shall be thickened towards the nearest villages i.e., Muddaballi located at a distance of 0.25 Km (E) and Gondabala located at a distance of 0.74 Km (SW)and towards the School located at 0.40 Km (E) Greenbelt development shall be completed before commissioning of the plant.	• 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 69,879 Nos. of trees are planted in industrial premises. • This comes to about 40% of total plot area. Native, evergreen & pollution resistant species like Silver Oak, Rain tree, Neem, Suru, Saag etc have been planted. Avenue plantation, shelter belt plantation, mass plantation & pocket plantation has been done on site. • Details and Photographs of Green belt is enclosed at **Annexure -IV.** • Industry has complied with the condition of Tree Canopy monitoring through remote sensing map.
20	**Condition No. XX**	

	PP proposed to allocate Rs. 1.50 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan (Annexure-V) for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, potable drinking water facilities, solar light/solar power support for uninterrupted power supply, soil nutrient management etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.	Under sugar factory Industry has allocated Rs. 500 Lakhs funds towards Corporate Environmental Responsibility (CER) activities Corporate Environmental Responsibility is being implemented in phase-wise manner. Same will be followed after the establishment of the distillery unit.
21	**Condition No. XXI**	
	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. At least 15% of total project area shall be allotted solely for parking purposes with facilities like rest rooms etc. The industry shall widen and strengthen the Madhuballi village road to 15 meters, which connects the proposed plant site to the nearest highway and also maintain it.	Industry has allocated about 19.91 Ha 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 & 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.
22	**Condition No. XXII**	
	Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.	Raw material for proposed distillery unit is Molasses/Juice which will be stored in tank. Bagasse which will be used as fuel for boilers will be stored in covered bagasse yard to avoid fugitive emissions. As soon as the process plant or machinery will get shut down due to operational failures APC equipment will be shut down as a result of an interlocking between Boiler & ESP.
23	**Condition No. XXIII**	
	Continuous online (24x7) monitoring system for stack emissions / effluent 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.	Under the existing complex industry is already been a Continuous Online Monitoring System for stack emission for measurement of flue gas discharge & the pollutants concentration and the data is transmitted to the CPCB & MPCB server. Industry will install OCMS to stack & ETP & Follow the same after the completion of the construction.
24	**Condition No. XXIV**	
	Ambient air quality shall be monitored at least at 03 locations around the plant as per CPCB guidelines to assess the impact of emissions in the nearby villages.	Under the existing complex industry is already monitored Ambient air quality at 03 locations around the plant as per CPCB guidelines.Same practice will be follow after the completion of the construction.
25	**Condition No. XXV**	
	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. EMC head shall report directly to Head of Organization / Director / CEO as per company hierarchy.	Under sugar factory 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. Same practice will be follow after the completion of the construction.
26	**Condition No. XXVI**	
	PP shall sensitize and create awareness among the people working the project area as well as its surrounding area on the ban of single-use plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to the concerned authority.	Industry will conduct awareness programm among working people as well as surrounding areas regarding Single-Use Plastic and its consequences. After that industry will submit the photographs of the same subsequently in half - yearly compliance report.
B	**GENERAL CONDITIONS**	

1	**Condition No. 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, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	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.
2	**Condition No. II**	
	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	LED lighting is provided in existing setup. After expansion plant industry shall be follow the same.
3	**Condition No. III**	
	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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	After commissioning of expansion project, the self-monitoring will be conducted within and outside premises through approved laboratory.
4	**Condition No. IV**	
	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Under sugar factory Industry has allocated Rs. 500 Lakhs funds towards Corporate Environmental Responsibility (CER) activities Corporate Environmental Responsibility is being implemented in phase-wise manner. Same will be followed after the establishment of the distillery unit.
5	**Condition No. V**	
	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.	The Company is complying with all the environmental protection measures and safeguards and implement all the recommendations made in EIA/EMP.EMC will be taking care that the funds are not diverted for any other purpose.
6	**Condition No. VI**	
	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.	Copy of Environment Clearance Letter was submitted to Grampanchyat – Mouje Rendal & Grampanchyat – Mouje Yalgud Taluka – Hatkalangale, Kolhapur on 16.07.2024. Also industry submitted granted EC to Hupari Nagar parishad & Chief Executive officer Kolhapur on 16.07.2024. Copy of Acknowledgement is attached in **Annexure –V.**
7	**Condition No. VII**	
	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.	Under Sugar factory Industry regularly submits a six monthly compliance report to regulatory authority.Same will be followed the distillery unit and regulary updated company website.
8	**Condition No. VIII**	

	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Under the existing unit, the industry has submitted the Environmental statement form. After the commissioning of the 100 KLPD distillery unit, the industry will regularly submit the Environmental statement (Form V).
9	**Condition No. IX**	
	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.	Industry had already made advertisement regarding grant of EC to Establishment of 100 KLPD Distillery in local newspapers within 7 days (Sunday Times, Kolhapur Ed. English newspaper and Dainik Sakal, Kolhapur Ed. Marathi newspaper) on 07.07.2024. Copies of Newspaper advertisements are enclosed at **Annexure –VI.**
10	**Condition No. X**	
	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.	The date of financial closure in connection with the Industrial Project is 31st March.
11	**Condition No. XI**	
	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.	Noted.

Annexures mentioned in EC

स्वातंत्र्याचा अमृत महोत्सव

महाराष्ट्र शासन
जलसंपदा विभाग
महाराष्ट्र कृष्णा खोरे विकास महामंडळ,पुणे
कोल्हापूर पाटबंधारे विभाग (उत्तर), कोल्हापूर
सिंचन भवन, ताराबाई पार्क कोल्हापूर पिन- ४१६००३

ई मेल- eekidkopn@gmail.com
दूरध्वनी क्र. ०२३१-२६५४७३६
फॅक्स- ०२३१-२६५४७३५

जा.क्र.कोपावि(उ)/ प्रशा-३ / बिगरसिचन / ०१४१ /सन २०२४ दिनांक – 13 MAY 2024

प्रति,

मा. कार्यकारी संचालक,
कल्लाप्पाण्णा आवाडे जवाहर शेतकरी
सहकारी साखर कारखाना लिमिटेड
हुपरी - यळगूड ता.हातकणंगले जि.कोल्हापूर- ४१६२०३

विषय : **कल्लाप्पाण्णा आवाडे जवाहर शेतकरी सहकारी साखर कारखाना लिमिटेड हुपरी - यळगूड ता.हातकणंगले जि.कोल्हापूर यांना मूळ मंजूर बिगरसिंचन पाणी आरक्षण परवान्या अंतर्गत (घरगुती + औद्योगिक) सन २०२४-२०३० या कालावधीसाठी सहा वर्षीय बिगरसिंचन करारनामा नुतनीकरण करणेबाबत.**

संदर्भ: १)शासन परिपत्रक क्र. बिपापु१००१/(७१३/२००१)सिंव्य(धो)/दिनांक ११/०३/२००३
२)शासन परिपत्रक क्र. पापव-२०१५/(प्र.क्र४००/२०१५)सिंव्य(महसूल)/दिनांक १५/१२/२०१५
३) शासन निर्णय क्र. पापव-२०१५/(प्रक्र ८८/२०१५)/सिंव्य(महसूल) दि. २१/०४/२०१६
४) महाराष्ट्र जलसंपत्ती नियमन प्राधिकरण यांचे आदेश जा.क्र. मजनिप्र/ २०२२/ ठो.ज.प्र. आ/ २०२२/ २१२ दिनांक ३०/०३/२०२२
५) मुख्य अभियंता पुणे यांचे सुधारित ज्ञापन मु.अ.जसं/२९६/२०१७/प्रशा-७/ ५१८८ दि. ७/१२/२०१७
६)महाराष्ट्र शासन जलसंपदा विभाग, शासननिर्णय क्र.बिसिंआ-२०१९/(३६५/२०१९)सिं.व्य.(धो) दिनांक ०१/११/२०२३
७) आपले पत्र जा.क्र. सिव्हिल/९८३६ दिनांक ०५/०३/२०२४
८)या कार्यालयाचे पत्र जा.क्र. कोपावि (उत्तर) /प्रशा-३ / बिगरसिंचन/ ४४२०/ दिनांक ०४/४/२०२४

उपरोक्त विषयांकित प्रकरणी कल्लाप्पाण्णा आवाडे जवाहर शेतकरी सहकारी साखर कारखाना लिमिटेड हुपरी - यळगूड ता.हातकणंगले जि.कोल्हापूर या आपल्या संस्थेस दुधगंगा प्रकल्प दुधगंगा नदीवरील सुळकूड को.प. बंधा-यावरून घरगुती प्रयोजनासाठी ०.१२० दलघमी व औद्योगिक प्रयोजनासाठी ०.०४८० दलघमी असे एकूण ०.१६८० बिगरसिंचन पाणी आरक्षण मंजूर आहे.

संदर्भ क्र.७ अन्वये आपण केलेल्या विनंतीअर्जानुसार मूळ मंजूर बिगरसिंचन पाणी आरक्षण परवान्या अंतर्गत (घरगुती व औद्योगिक प्रयोजनासाठी) सन २०२४-२०३० (दि.०१/०५/२०२४ पासून दि.३०/०४/२०३०) या सहा वर्षाकरिता पाणी आरक्षण करारनामा नुतनीकरण खालील अटींच्या अधिन राहून मंजुर करणेत येत आहे.

१) महाराष्ट्र शासनामार्फत बिगरसिंचन पाणी वापराबाबत वेळोवेळी निर्गमित होणारे शासन निर्णय व मुळ मंजूर परवान्यातील अटी आपल्यावर बंधनकारक राहतील याची कृपया नोंद घ्यावी.

२) करारनाम्याचे नुतनीकरण करणेपुर्वी शासनाचे उपरोक्त संदर्भिय पत्रामधील सर्व अटी व शर्ती बंधनकारक राहतील तसेच त्यांचे काटेकोरपणे पालन होणे महत्वाचे आहे.

३) मंजूर पाणी अथवा प्रत्यक्ष पाणी वापर यापैकी जे अधिक असेल त्या परिमाणाच्या प्रमाणात होणारा वहनव्यय पाणी वापर कर्त्याला सोसावयाचा आहे.

४) आपल्या संस्थेस एक वर्षाकरिता मंजूर करण्यात येणा-या पाणी कोट्याच्या १०० % पर्यंत वार्षिक पाणी वापराकरिता अनुज्ञेय दर आकारण्यात येईल.१००% ते १२५ % पाणी वापराकरिता अनुज्ञेय दराच्या १.५० पट दर आणि १२५% पेक्षा जास्त वापरास ३.० पट दर लागू असतील याची नोंद घ्यावी.

५) संदर्भ क्र.७ अन्वये कळविणेत आलेल्या सर्व अटींच्या अधिन राहून सदरचा करारनामा हा सन २०२४-२०३० (दि.०१/०५/२०२४ पासून दि.३०/०४/२०३०) करिता मंजूर करणेत येत आहे.

सोबत: मंजूर करारनामा प्रत

कार्यकारी अभियंता
कोल्हापूर पाटबंधारे विभाग(उत्तर)
कोल्हापूर.

प्रत : सहाय्यक अभियंता श्रेणी १, दुधगंगा पाटबंधारे उपविभाग, निढोरी यांना माहिती व पुढील कार्यवाहीसाठी

Annexure-II

Photographs of Health Care Facility

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

HEALTH REGISTER

From: 09/09/2024 To 08/09/2025

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

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

Sr. No.	Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wor	Reason for leaving Transfer of discharg	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work,state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness or suspention issued to worker	Signature with gate certifying surgeon.
1	612	MR. PRAKASH M UNDURE	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
2	1217	MR. SHAMBHAJI B SADALE	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
3	1826	MR. SANTOSH G PALSKAR	47	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
4	957	MR. BHIMRAO M JADHAV	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
5	1523	MR. SHRIKANT G TELI	55	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
6	0092	MR. LAXMAN K CHOUGULE	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
7	0516	MR. ASHOK R GAIKWAD	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
8	2360	MR. PRADEEP A HANDE	27	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
9	0392	MR. TUSHAR T POWAR	56	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
10	7025	MR. AKSHAYKUMAR P SHETKE	30	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
11	2366	MR. AJIT A PATIL	28	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
12	0168	MR. IMTIYAJHAMAD M BHADGAONKAR	57	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
13	1991	MR. SACHIN A KERGUTTE	39	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
14	7616	MR. MAHESH B BHANGE	25	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
15	7428	MR. SOURABH D MANE	24	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
16	7452	MR. FARUK A JADAMAR	26	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
17	6015	MR. ABHAY A MAYGONDA	36	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
18	1589	MR. JAYSING M PATIL	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
19	7449	MR. MORESHWAR K METKAR	31	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

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

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

HEALTH REGISTER

From: 09/09/2024 To 08/09/2025

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

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

Sr. No.	Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wor	Reason for leaving Transfer of discharg	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work,state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness or suspention issued to worker	Signature with gate certifying surgeon.
20	1266	MR. B N SHAMBHUSHETTY	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
21	7582	MR. SANKET S PATIL	24	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
22	7473	MR. ADITYA M SARNAIK	26	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
23	1394	MR. TANAJI S PATOLE	53	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
24	2028	MR. SOPAN B BIRJE	35	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
25	7242	MR. SOURABH J GEVISE	27	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
26	1006	MR. SANJAY M KUDALKAR	53	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
27	1680	MR. BABASO S DAINGADE	48	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
28	985	MR. DEEPAK V SHEREGAR	51	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
29	2029	MR. YOURAJ A GUNAKE	36	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
30	1868	MR. BALASO A SANADI	58	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
31	2192	MR. MAHAVEER P NEJE	46	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
32	912	MR. PANDURANG N SHINGARE	53	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
33	1370	MR. SUBRAV A KAGALE	46	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
34	1437	MR. SADIK I MUJAWAR	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
35	1695	MR. SHRENIK B MAGDUM	51	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
36	0862	MR. RAHIM M MALDAR	57	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
37	965	MR. MAHAVEER R KOGNOLE	55	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
38	1335	MR. VIJAY V YADAV	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

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39	1683	MR. AMOL B HEARWADE	46	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
40	1810	MR. SHANTINATH K GANGAI	49	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
41	1261	MR. SANDIP B PATIL	43	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
42	7119	MR. AVINASH D CHAKARE	28	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
43	7260	MR. PRANAV V ATHANE	29	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
44	6017	MR. YUVRAJ A BHOSALE	33	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
45	0946	MR. APPASO V HAVALDAR	55	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
46	7301	MR. SURAJ P AWATE	26	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
47	2362	MR. PRAVIN J SIDANALE	31	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
48	6043	MR. SAGAR M PATIL	37	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
49	7431	MR. YOGESH J KATKOLE	28	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
50	1976	MR. SHRENIK B KOLHAPURE	48	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
51	7290	MR. BHUSHAN J NARAWADE	28	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
52	1228	MR. SHASHIKANT A SHINDE	48	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
53	6007	MR. AMIT J BHAGAJE	34	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
54	0230	MR. BHAUSO H DONGARE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
55	2141	MR. MACHINDRA A CHAVAN	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
56	621	MR. BHIMRAO S PARIT	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
57	1692	MR. MUSTAK A NAYANE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

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58	1629	MR. SANJAY A TONAPE	46	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
59	1862	MR. RAHUL R CHOUGULE	42	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
60	396	MR. UDAY A AINAPURE	56	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
61	1730	MR. BHIMA P KURALI	42	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
62	1707	MR. DHANANJAY S BAGAL	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
63	0650	MR. MAYAPPA L MUDHALE	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
64	111	MR. RAGHUNATH Y DAVARI	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
65	7216	MR. SANKET A SHIRADWADE	27	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
66	370	MR. MARUTI G SHINDE	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
67	7070	MR. AMIT P SUBHEDAR	30	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
68	2066	MR. BHIMRAO M WAJANTRI	58	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
69	2172	MR. SANTU B GORADE	44	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
70	2353	MR. NITIN N SHINDE	30	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
71	1278	MR. UMESH B MANE	49	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
72	1425	MR. SHIVAJI K POWAR	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
73	1898	MR. KUNTINATH A PATIL	48	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
74	1665	MR. ABHIJIT S KUMBHAR	44	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
75	1398	MR. SHANKAR T PATIL	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
76	1362	MR. SHRIKANT B PAWAR	58	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम ११(२) प्रमाणे
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77	7097	MR. PRAMOD S NAGAVE	29	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
78	372	MR. J D PATIL	55	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
79	6009	MR. PAVANKUMAR B PATIL	34	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
80	1476	MR. SANJAY D PATIL	56	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
81	2356	MR. SAGAR M MALI	29	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
82	7225	MR. SAMMED M KASHMIRE	27	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
83	7477	MR. SANTOSH S PUJARI	25	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
84	7333	MR. PRITAM S INGALE	24	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
85	1944	MR. AJIT S MANE	45	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
86	7486	MR. ANIKET G NAGARE	26	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
87	7422	MR. ANUP S DATTAWADE	23	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
88	1563	MR. ANIL S MALI	56	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
89	2383	MR. VIJAY S PODJALE	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
90	2205	MR. TUSHAR V KUMBHAR	30	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
91	0684	MR. MOHAN R BHATANWADE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
92	685	MR. AVINASH K MORE	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
93	1524	MR. BABASAHEB A PATIL	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
94	-	MR. DADASO J GAVANDI	40	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
95	1738	MR. KASHINATH M KAWADE	43	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

कारखाने अधिनियम १९४८ च्या कलम ११०(२) प्रमाणे
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96	1791	MR. SANJAYKUMAR D PATIL	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
97	1807	MR. BALGONDA S PATIL	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
98	0610	MR. SHASHIKANT R CHARATE	53	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
99	1494	MR. BABASO I PATIL	55	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
100	7490	MR. SOURABH S GAIKWAD	25	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
101	1627	MR. SHITAL A MURABATTE	57	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
102	7267	MR. FAIYAZ S SANADI	27	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
103	1657	MR. ANIL V FULE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
104	0805	MR. SHIVAJI D PATIL	53	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
105	7594	MR. NITIN A KORVI	24	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
106	1602	MR. SANJAY A KHANJIRE	57	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
107	7552	MR. VIJAY S KUMBHAR	23	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
108	0846	MR. ADUM A MULLA	53	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
109	7380	MR. ONKAR R VIBHUTE	24	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
110	2302	MR. ANANDA R DHAVANE	51	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
111	1744	MR. AJIT R CHIKHALE	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
112	7581	MR. SAMMER S PATIL	24	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
113	1381	MR. KESHAV T KHOT	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
114	7278	MR. VAIBHAV T SHINDE	26	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

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115	1897	MR. AMOL G HANDE	43	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
116	1998	MR. SUNIL S GURAV	47	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
117	7288	MR. SHASHIKANT B PATIL	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
118	1864	MR. SHIVAJI G MADHALE	45	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
119	1760	MR. PRAKASH S JADHAV	46	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
120	777	MR. AJIT D VASWADE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
121	2165	MR. PANKAJ P PATIL	37	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
122	0527	MR. RAJENDRA K PATIL	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
123	0709	MR. DILIP R PATIL	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
124	579	MR. DHULGONDA K MORE	56	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
125	1619	MR. PANDURANG D KUMBHAR	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
126	387	MR. SURESH B HANBAR	57	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
127	2084	MR. BALASO D CHOUGULE	48	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
128	7332	MR. SADGONDA A SHIROLE	31	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
129	1054	MR. SHITAL C KAJAVE	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
130	1077	MR. RAJGONDA A PATIL	57	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
131	1955	MR. TANAJI P BHORE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
132	7121	MR. SANJAY S PATIL	51	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
133	2000	MR. A J CHOUGULE	37	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

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134	380	MR. VILAS M PATIL	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
135	1722	MR. SANTOSH R BHOPE	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
136	675	MR. SUNIL S SHINDE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
137	1579	MR. SANJAY G BHOI	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
138	32	MR. JAYPAL B GATH	56	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
139	2341	MR. SANTOSH S DHARKADE	35	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
140	7433	MR. RAHUL B GURAV	28	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
141	7407	MR. VINOD A PATIL	32	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
142	466	MR. DHONDIRAM N PATIL	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
143	7516	MR. ANIKET A KAMBLE	28	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
144	1735	MR. ANIL B MORE	44	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
145	0457	MR. ANANTKUMAR M UPADHYE	40	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
146	0007	MR. RAMESH R CHAVAN	55	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
147	1595	MR. SUKUMAR S AINAPURE	51	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
148	405	MR. ASLAM G SHAIKH	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
149	1802	MR. ASLAM U MULLANI	49	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
150	2096	MR. SHRIPAD S KUMBHAR	39	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
151	1382	MR. SHRIKANT G SHETAKE	57	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
152	2195	MR. SHAMGONDA D PATIL	30	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

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

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

HEALTH REGISTER

From: 09/09/2024 To 08/09/2025

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

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

Sr. No.	Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wo	Reason for leaving Transfer of discharg	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work,state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness or suspention issued to worker	Signature with gate certifying surgeon.
153	1341	MR. AYUBKHAN H JAMADAR	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
154	7518	MR. SHUBHAM S PATIL	29	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
155	7383	MR. FIROJ N MAKUBHAI	38	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
156	7276	MR. ABHIJEET S KAMBLE	37	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
157	1387	MR. RAJKUMAR S MAGDUM	58	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
158	1825	MR. SANTOSH R KAMBLE	47	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
159	1633	MR. SHIVAJI B MALI	46	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
160	0516	MR. RAJENDRA A MAGDUM	56	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
161	1605	MR. SUDHIR A PATIL	47	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
162	1792	MR. BAHUBALI S GOTHURE	43	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
163	507	MR. PRAKASH A KHOCHAGE	52	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
164	0786	MR. BALASO A GOTKHINDE	49	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
165	2044	MR. ARUN A ARVADE	42	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
166	7277	MR. NIKHIL M KANIRE	32	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
167	1431	MR. JAYRAM B GURAV	58	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
168	2140	MR. LAXMAN B BANKE	55	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
169	1921	MR. RAVINDRA P KARANGE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
170	35	MR. BHAUSAHEB N SHENDGE	55	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
171	7528	MR. ABHIMANYU A NIKAT	25	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

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172	733	MR. UDAY B CHOUGULE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
173	1739	MR. VIJAYKUMAR A PATIL	42	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
174	1658	MR. VIJAY P SHINDE	49	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
175	913	MR. SUNIL R CHOUGULE	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
176	7423	MR. YOGESH R KALYANI	27	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
177	1647	MR. YUVRAJ B PATIL	50	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
178	7495	MR. VISHAL U JOG	24	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
179	7599	MR. ONKAR V ARUNKAR	25	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
180	7515	MR. SHRIDHAR K PATIL	23	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
181	7619	MR. PRASHANT K PARIT	21	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
182	2310	MR. AKSHAY KULKARNI	29	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
183	7496	MR. SURAJ M PATIL	26	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
184	2339	MR. MAHADEV R KUMBHAR	56	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
185	1037	MR. BALKRUSHAN K CHOUGULE	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
186	1930	MR. ANSAR A CHILLI	44	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
187	6295	MR. GULAB S DABADE	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
188	2335	MR. SUSHANT S PATIL	35	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
189	467	MR. VIJAY J UTTURE	59	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	
190	0737	MR. USMAN M SHAIKH	54	M	-	NA	NA			09/09/2024	Fit	NA	Fit	NA	

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1141	7210	MR. INDRAJEET B KARADE	28	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1142	7394	MR. KUBER S PUJARI	26	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1143	7249	MR. SANTOSH K PUJARI	28	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1144	1393	MR. VILAS D KAMBLE	53	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1145	1858	MR. UDAY R PATIL	45	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1146	1448	MR. SUBHASH V GAJARE	48	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1147	2350	MR. SANTOSH A PATIL	34	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1148	6002	MR. AMIT A CHOUGULE	38	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1149	7116	MR. SHUBHAM B MORE	26	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1150	0009	MR. ARUN K GADE	52	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1151	1893	MR. AMAR S PATIL	44	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1152	6230	MR. BABANRAO B DESAI	59	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1153	7209	MR. ARUN S JOG	29	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1154	7608	MR. DATTA M KHOT	23	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1155	7458	MR. ABHISHEK K GORWADE	27	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1156	7403	MR. SOURABH R CHOUGULE	26	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1157	7474	MR. RUSHIKESH R PUJARI	25	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1158	2307	MR. KUMAR B KERGULE	41	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1159	655	MR. SANJAY A KUMBHAR	52	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	

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

HEALTH REGISTER

From: 09/09/2024 To 08/09/2025

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

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

Sr. No.	Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wor	Reason for leaving Transfer of discharg	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work,state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness or suspention issued to worker	Signature with gate certifying surgeon.
1160	1011	MR. ANANDA S MAGDUM	54	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1161	7092	MR. PANKAJ R PATIL	29	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1162	7252	MR. VAIBHAV S JOG	25	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1163	7059	MR. V B BHANDAWADE	29	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1164	7344	MR. SAGAR S AIHALE	27	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1165	6004	MR. BHARAT J CHOUGULE	46	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1166	7578	MR. SAMMED S GATURE	22	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1167	0836	MR. SANJAY R ZANJAGE	56	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1168	7096	MR. ASHITOSH R CHOUGULE	27	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1169	1227	MR. ASHOK A KHOT	52	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1170	7575	MR. SAMMED S MANGAVE	24	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1171	1834	MR. DAWAL M SHAIKH	52	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	
1172	7061	MR. SHRINIVAS B SAVALE	29	M	-	NA	NA			12/09/2024	Fit	NA	Fit	NA	

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प्राधिकृत प्रमाणकशल्यचिकित्सक
क्र. ACS 15-AM/2016

Photographs of firefighting arrangements

Photographs of Mock Drills

KALLAPPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.,
Hupari – Yalgud, 416 203. Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra)
Phone (0230) 2450402, Fax No. : (0230) 2450401,
E-mail : kprjsssk@gmal.com

MOCK DRILL REPORT

March – 2025

KALLAPPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.,

Hupari – Yalgud, 416 203. Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra)
Phone (0230) 2450402, Fax No. : (0230) 2450401,
E-mail : kprjsssk@gmal.com

MOCK DRILL REPORT.

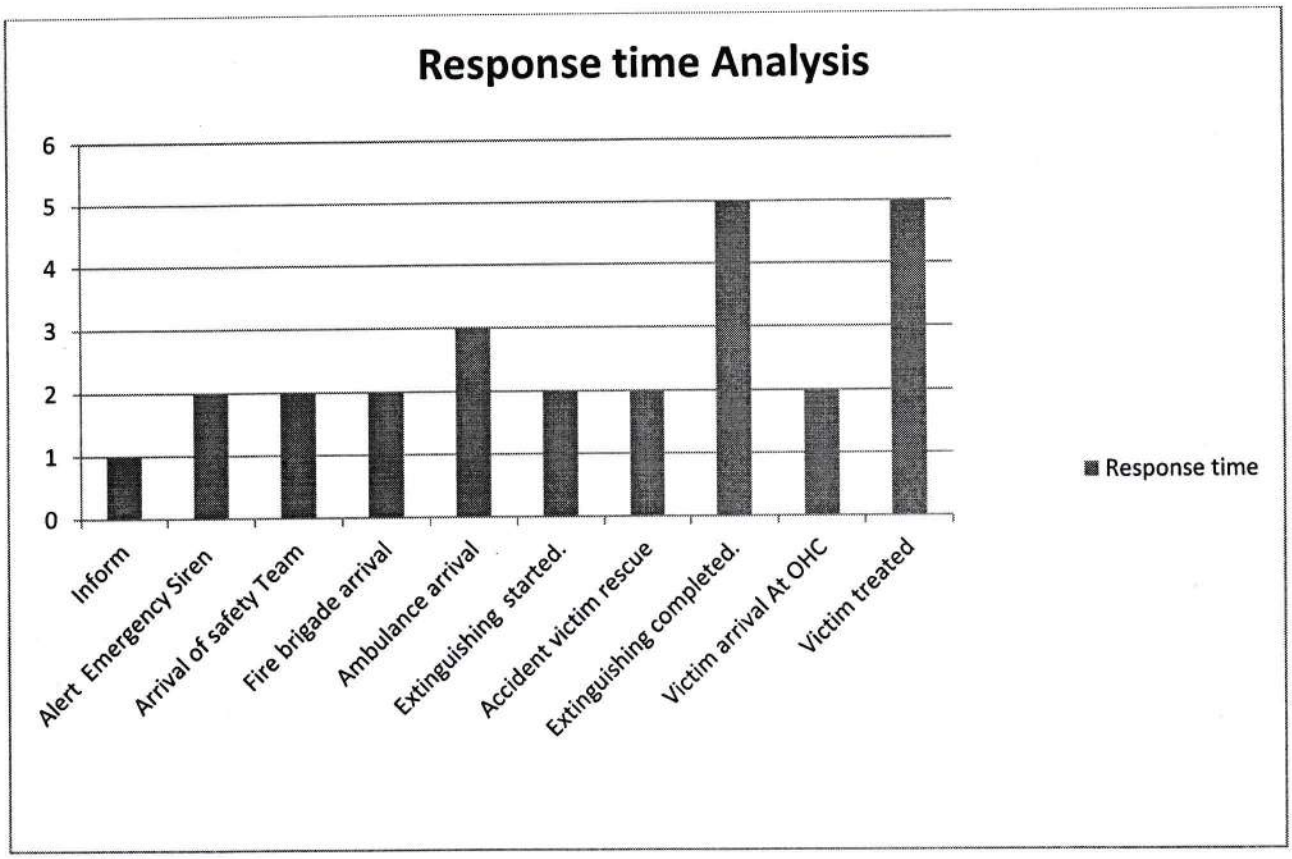
SR.NO	ASPECT	DISCREPTION	
1.	**Subject Of Drill**	Mock Drill is conducted on the occasion of National Safety Week in which fire drill is conducted and demonstration of fire extinguishing system is carried out along with measurement of response system and other observations.	
2.	**Type of Drill**	Fire mock drill.	
3.	**Conducted By**	Safety department & Security department of the factory.	
4	**Scheduled Time**	From 10:45 to 11:15 am on dated **4th March,2025**.	
5.	**Location**	Main Gate – Corridor	
6.	**Possible hazards of incident**	Social Impact –No any social Impact is there.	
		Property damage - Yes, Property damage may possible.	
		Environmental Impact–Partial environmental Impact.	
		Critical infra impact - No any affect.	
		Process / Business Impact –It may impact process of Factory.	
		Physical harm –Physical harm is possible.	
		Psychological Impact - Partially affected.	
6	**Groups& Teams (Security Department)**	**Team 1 : Fire Fighting Team**	
		1. Mr. Hindurav Patil 2. Mr. Tatysaheb sangavade 3. Mr . Tatyasaheb Patil.	To execute fie extinguishing work on the location of fire incident.
		Team 2 : Fire picket Team	
		1. Mr. Harun Naikwade 2. Mr. Amol Patil 3. Mr. Jalandhar Patil	To surround the affected area of the incident and restrict the entry of man and flammable material from outside to inside the affected area.
		Team 3 : Salvage Team	
		1. Mr. Deepak Chougule. 2. Mr. Avinash Dongle. 3. Mr Ramesh Patil	To Dispose a damaged material and evaluation of material damage due to the fire incident.
		Team 4 : Reserve Team	
		1. Mr. Sharad Kamble 2. Mr. Mallappa Khadage 3. Mr. Guatam Kable.	To Help the accident victim to have a further treatment.
7.	**Methodologies, techniques & Strategies**	Fire fighting team operations.	Rescue team operations
		Fire picket team operations	Reserve team operations.
		Salvage team operations	

	used.		
8.	**Name of the volunteers**	Total no of Volunteers are participated in Mock drill. Some of them are as below.	
		Mr. Bhauso Dongare	Mr. Jalandhar Patil
		Mr. Sanjay Sheregar	Mr. Avinash kamble
		Mr. Pradip Patil	Mr. Jivandhar Patil
		Mr. Anil Nikam	Mr. Vilas kamble
		Mr. Laxman Lali	
		Mr. Kumar Mane	
9	**Equipments, tools , material used**	Personal Protective equipments.	Emergency flag
		Sand buckets	Siren
		Fire extinguishers.	Woolen cloth
		Fire Extinguishing vehicle.	Disposal & segregation equipments.
		Ambulance	stretcher

QUANTITATIVE TIME STUDY ANALYSIS - :

SR.NO	MAJOR EVENT	TIME OF OCCURANCE	RESPONSE TIME
1	Occurrence of the fire incident at the Main gate corridor.	10:47	-
2	Inform to the Security & Safety department about incident.	10:48	1 Min
3	Alert message to all employee through Emergency Siren	10:50	2 Min
4	Arrival Safety officer along with security team and Fire fighting team.	10:52	2 Min
5	Fire brigade arrives on the location of incident.	10:55	2 Min
6	Ambulance arrives at location of incident.	10:58	3 Min
7	Fire extinguishing work started.	10:57	2 Min
8	Accident victim pick up by rescue team.	11:00	2 Min
9	Fire extinguishing work completed & situation taken under control.	11:00	**5 Min**
10	Ambulance arrives at medical center of the Factory.	11:02	2 Min
11	Treatment has given to the victim.	11:07	5 Min
12	General instruction given to the employees and supervisors by Factory manager, safety officer, and Security officer.	11:15	-
13	Declaration of successfully completion of mock drill by authorities.	11:18	-

Discriptive Analysis –



Key Insights –

From the Quantitative time study analysis it is observed that the time taken for the Informing to the key personals, Emergency siren alert, extinguishing starting time and Accident victim rescue time are the fastest in the process of extinguishing. Also the time response of arrival of fire tender and ambulance is also improved slightly which is good measure.

Completion of fire incident operation and taking situation under control takes 5 minutes of response time and treatment of victim takes 5 minutes of time respectively. This time can be further improved by changing the Operational strategy of fire fighting operation.

Mock drill Assessment sheet

SR. NO	ASSESSMENT CHECKS	NA	YES	NO	REMARK
1	Were all volunteers aware about the potential of the incident to hazard?	☐	●	☐	Yes. They are all aware about it.
2	Was Every rescue team / Crew member aware about their responsibilities in the case of emergency?	☐	●	☐	Responsibilities are specifically assigned to each member.
3	Have employees / members of rescue team well assimilated the methodologies, procedures & strategies employed during the drills?	☐	☐	●	Employees should clearly understand their role in the fire extinguishing procedure.
4	Was any Physiological problem evidenced among employee/ rescue team member during the drill?	☐	☐	●	No any Physiological problem was evidenced.
5	Was any Psychological problem evidenced among employee/ rescue team member during the drill?	☐	☐	●	No any Psychological problem was evidenced.
6	Were all equipments / machines find in place so that they were easily accessible in the case of the emergency?	☐	●	☐	All Equipmentwas placed at a assigned location.
7	Were all equipments / machines found to work effectively during the drill?	☐	●	☐	all equipment /machines are regularly tested and maintained in good condition
8	Is there any need to modify or replace any equipment / machine as per changing requirements of situations?	☐	☐	●	No.
9	Was there any material which can add potential to the hazard?	☐	●	☐	Cotton waste was available on the location which is used for cleaning purpose.
10	Was the material properly segregated from the place of hazard to the safe place?	☐	●	☐	Yes. Salvage team done the segregation work.
11	Was there any method / procedure which have to modify/improve/replace as per current necessities and standards in order to improve the effectiveness of system?	☐	●	☐	Rescue team should be follow the assigned work.
12	Was there any defect in the communication system which employed during the emergency?	☐	●	☐	There is a time lag in the communication.
13	Is there any possibility of arising unusual conditions during the time of emergency?	☐	☐	●	No such possibility is there.

Conclusions & Results -

1. All the procedure of fire extinguishing is followed as per standard procedure within assigned time limit.
2. No any possibility of arising unusual conditions during the mock drill.
3. Communication system was found effective during the mock drill.
4. All fire fighting equipment are found to be working in good conditions.
5. Inlet line knob of low pressure pump of fire tender found leak.

Improvement measures -

1. While the mock drill it is observed that the Inlet knob of the low pressure pump of fire tender is leaked. Leakage is to be attended on time in order to avoid the pressure loss during the fire fighting operations.

Vikas .S Kavade

(GM Tech & Factory Manager)

Existing Green Belt

Existing Green Belt

Existing Green Belt

Existing Green Belt

Existing Green Belt

JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

Hupari -Yalgud, Tal-Hatkanangale, Dist- Kolhapur.(Maharastra)

Date: 24/04/2024

AREAWISE TREE PLANTATION INFORMATION

Sr. No	Survey No.	Place	Area (Acres)
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
		Total	**98.30**

KALLAPPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD

Hupari -Yalgud,416203, Tal-Hatkanangale, Dist- Kolhapur.(Maharastra)

Date: 09/10/2024

Karkhana site Tree Plantation Details

Sr.No	Particulars	Nos of Tree
A	**Fruit Plant**	
1.	Coconut	603
2.	Mango	350
3.	Chikku	156
	Total	**1109**
B	**Forest Tree**	
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	2839
32.	Jambhul	100
33.	Paletoforum	250
34.	Bambu	30634
35	Katesawar	320
	Total	**53813**

Sr.No	Particulars	Nos of Plant
C	**Decorative Tree**	
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
	Total	**6715**
D	**Flower Tree**	
1.	Rose	200
2.	Other Flower Tree	4726
3.	Pots Tree	306
4.	Kaneri	2670
5.	Shankasur	340
	Total	**8242**

Total Summary of tree plantation-		
A	Fruit Tree	1109
B	Forest Tree	53813
C	Decorative Tree	6715
D	Flower Tree	8242
	Total Tree Plantation	**69879**

A Brief Report on

GREEN COVER ASSESSMENT

through

Canopy Mapping and Tree Census Study

Of

Jawahar Shetakari Sahakari Sakhar Karkhana Ltd. (JSSSKL) ,

Shri Kallappanna Awadenagar, Hupari - Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, MS.

Prepared By

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

QCI- NABET & ISO 9001 : 2015 Accredited Organization

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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 Kallappanna 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

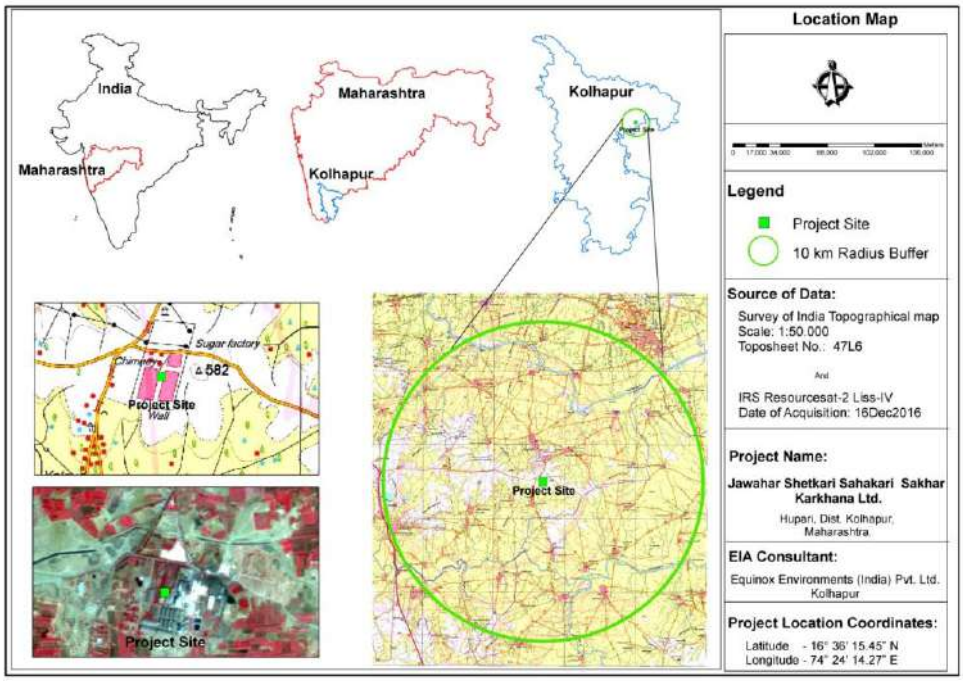
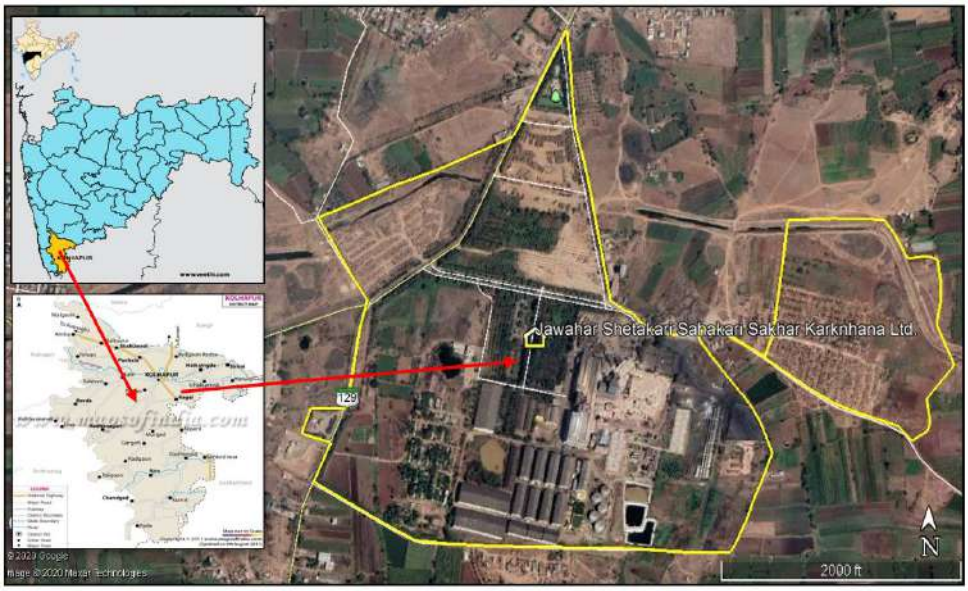


Fig 2 Google Earth Map of the JSSSKL



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.

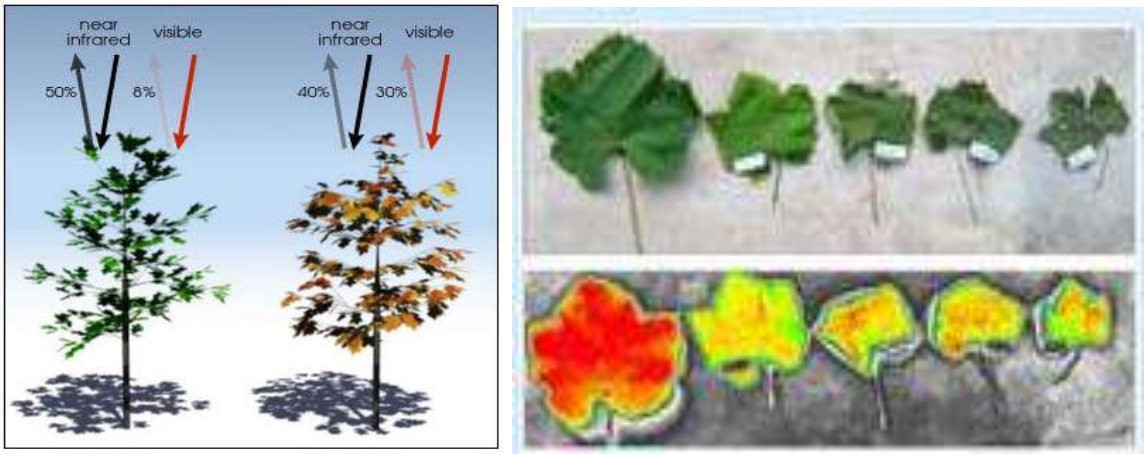
DJI's advanced technology Drone 'KAMBILL-DJI-INSPIRE-1 - Remotely Controlled Aircraft with X3 Camera' was used for the survey. The camera of the drone can take composite image with three bands along with digital elevation details and laser cloud points. Multispectral imaging sensors captures red, green, and blue (RGB) spectral information which is useful for image classification and to estimate vegetation canopy cover. The drone survey was carried out on 8th 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^{o} 36' 20.03" N, Longitude: 74^{o} 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

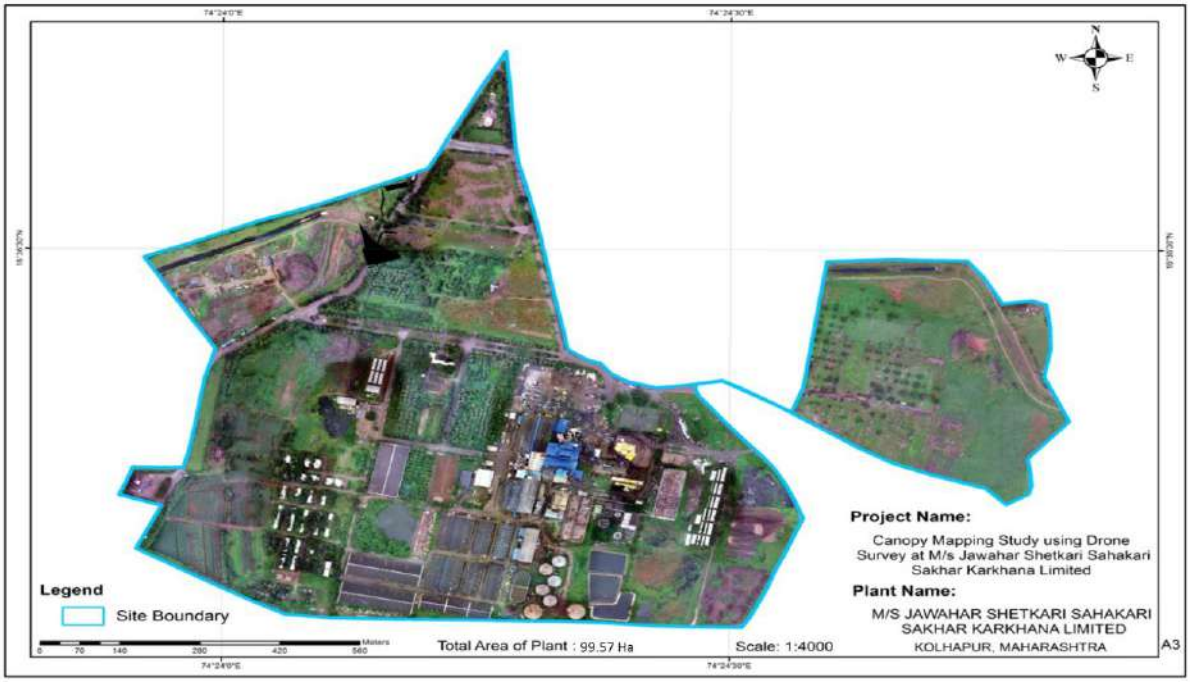


Since trees and shrubs can appear spectrally similar or be obscured by shadow, tree census was carried out to enhance the accuracy of tree mapping, providing more precise data including tree count, size, and species distribution. Attempt was made to count all the possible trees from the study area. Some 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, sequestrated 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

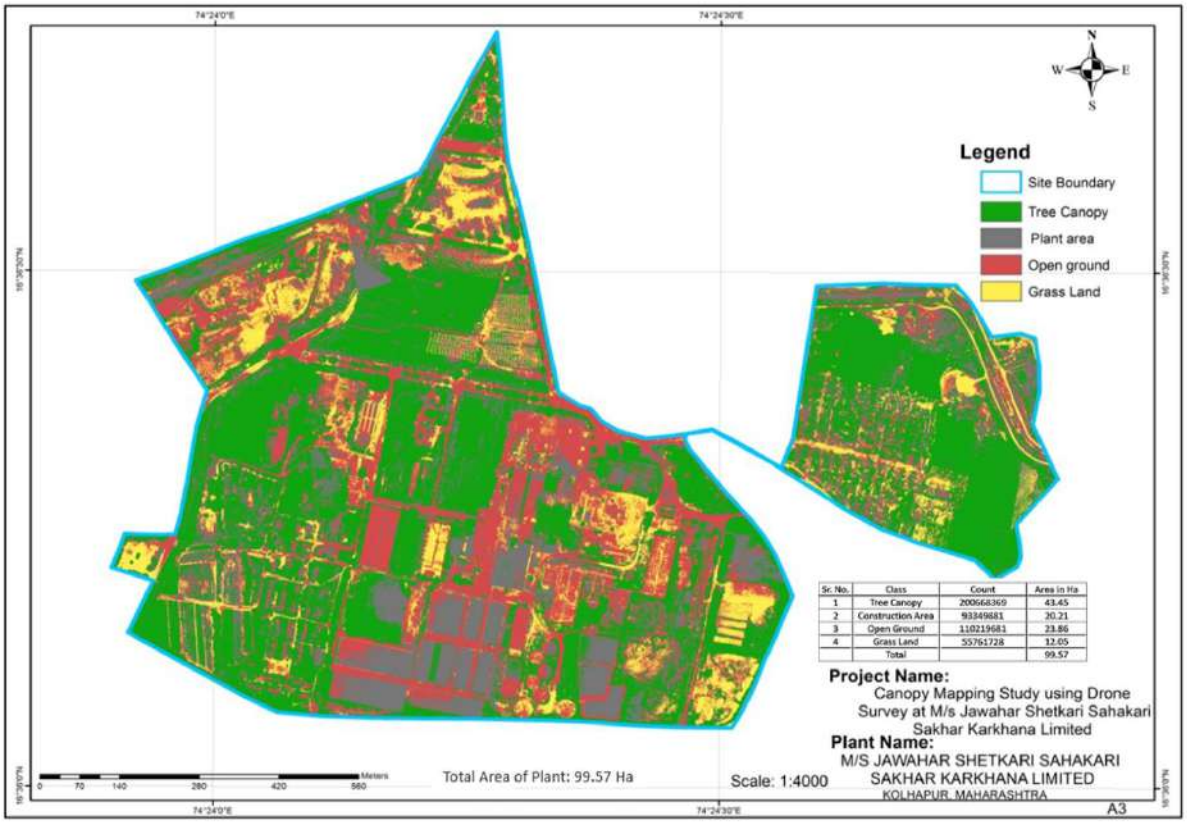


The image has been processed to apply corrections for optical distortions from the sensor system, and apparent changes in the position of ground objects caused by the perspective of the sensor view angle and ground terrain. This ortho-rectified composite image is accurately georeferenced and further 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.

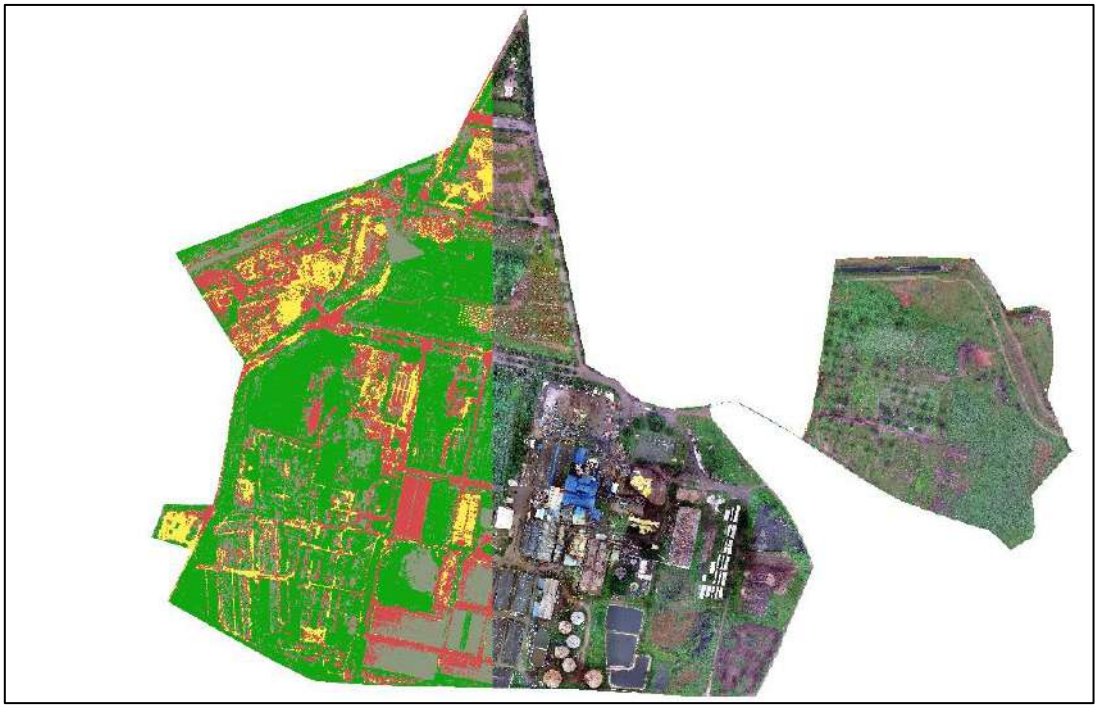
Table 1 Index Count and Area of the Four Classes by NDVI Technique

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
	Total		**99.57**

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



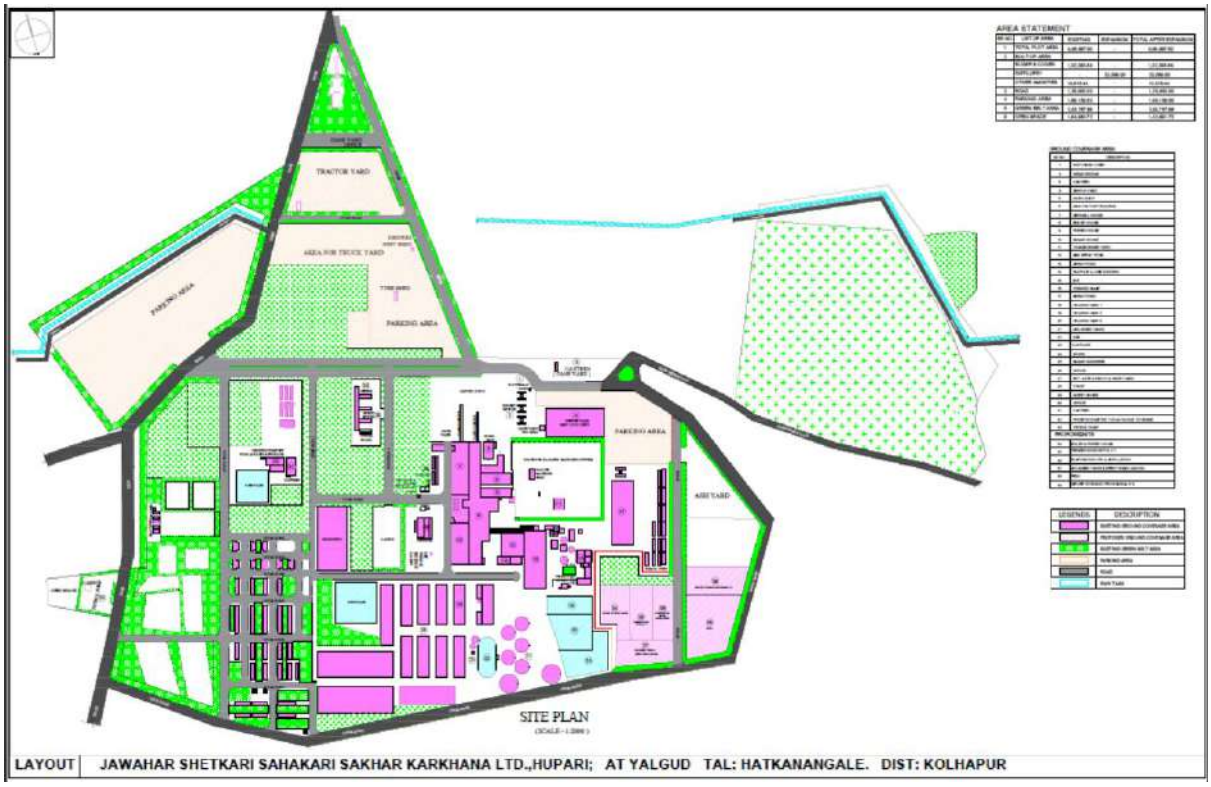
Grass lands are not included in the tree canopy area. The trees include in the above-mentioned canopy area are from height 1 m to 20 m. four groups were made as per the height of the trees and canopy area of each group is calculated.

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%
Total	**4,34,450 Sqm**	**100%**

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_2 has captured and stored by the woody plants present in the industry complex. A single tree consumes 0.0218 tons of CO_2 approximately annually consequently, as the campus possess 69,279 mature woody plants 1510.28 tons of CO_2 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 CO2 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-V

REGISTERED A. D.

जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी

श्री कल्लाप्पाण्णा आवाडेनगर, हुपरी-यळगूड ४१६ २०३, ता.हातकणंगले, जि.कोल्हापूर. (महाराष्ट्र)
फोन (०२३०) २४५०४०२, फॅक्स (०२३०) २४५०४०१
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जा.क्र उत्पादन/ई,टी.पी/३०९७ /२०२३-२४ दिनांक -१६ /०७/२०२४

प्रति,
मा. मुख्य कार्यकारी अधिकारी,
जिल्हा परिषद,
नागाळा पार्क, करवीर,
कोल्हापूर – ४१६००३.

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(म.गो.जोशी)
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06

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हुपरी नगरपरिषद हुपरी
आवक क्र. 8283
दि. १६/७/२४
मॉ.न.वि.अधिकारी

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आवक नं. 190 दि. 16/07/2024
ग्रामपंचायत रेंदाळ
ता. हातकणंगले, जि. कोल्हापूर. सही. १६.७.२०२४

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मौजे यळगुड,
ता. हातकणंगले, जि. कोल्हापूर.

विषय- नियोजीत १०० के.एल.पी.डी क्षमतेच्या डिस्टीलरी प्रकल्पास इन्व्हीरॉनमेंटल क्लिअरन्स मिळालेबाबत...

महोदय,

कारखान्याच्या नियोजीत १०० के.एल.पी.डी क्षमतेच्या बी आणि सी हेवी मोलॅसिस/केन ज्युसवर आधारीत डिस्टीलरी प्रकल्पास भारत सरकारच्या पर्यावरण,वने व जल वायु परिवर्तन मंत्रालय, नवी दिल्ली यांचे कडुन EC Identification No. EC23B2501MH5708797N दिनांक. ०३/०७/२०२४ अन्वये इन्व्हीरॉनमेंटल क्लिअरन्स मिळालेला आहे.

आपले माहिती करीता सादर,

कळावे,

आपला विश्वासु
(म.गो.जोशी)
कार्यकारी संचालक

सोबत - इन्व्हीरॉनमेंटल क्लिअरन्सचे पत्राची प्रत.

ग्रामपंचायत मौजे यळगुड ता. हातकणंगले जि. कोल्हापूर स्थापना १९३६

आवक क्र. 913/2024
दिनांक - १६/०७/2024

Annexure-VI

SUNDAY TIMES
Bennett, Coleman & Co. Ltd
INDIA'S LARGEST ENGLISH NEWSPAPER
JULY 7, 2024 | PAGES 16

SUNDAY TIMES OF INDIA, KOLHAPUR
JULY 7, 2024

T.T.DEVASTHANAMS, TIRUPATI
MARKETING DEPARTMENT
e-Procurement Tender Notice

E-Tenders were invited for supply of **(1) 60,000 Kgs of Cardmom (ELACHI) 8 mm size (AGEB) variety for a period of 04 months, (2) 48,000 Kgs of Sugar (S-30) variety for a period of 06 months** through e-tenders to the Marketing Department, T.T.Devasthanams. For Tender notice and tender details log on to the website **http://www.tirumala.org** and **https://tender.apeprocurement.gov.in. For further details contact phone numbers: 0877-2264079, 2264555, FAX No: 0877-2264554.**

TTD-40021(31)/1/2024-PRO SEC (Adv. No. 62). Date: 06-07-2024 Sd/- Executive Officer

PUBLIC NOTICE

We are pleased to inform that 'Ministry of Environment, Forest and Climate Change (MoEFCC); Government of India, New Delhi has accorded an "Environmental Clearance" vide its EC Identification No. EC23B2501MH5708797N dated 03/07/2024 to 'Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari' located at: Shri Kallappanna Awadenagar, Hupari - Yalgud, Tal. Hatkanangale, Dist. Kolhapur, Maharashtra State for Establishment of 100 KLPD B and C heavy Molasses / Sugarcane Juice based distillery. Copies of the Environmental Clearance letter are available with the Maharashtra Pollution Control Board (MPCB), Industry and may also be seen at the Website of Ministry of Environment, Forest and Climate Change; New Delhi, at http://envfor.nic.in

Managing Director,
Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari

सकाळ

कोल्हापूर रविवार, ७ जुलै २०२४

जाहीर निवेदन

कळविण्यास आनंद वाटतो की, "पर्यावरण, वने व हवामान बदल मंत्रालय"; भारत सरकार, नवी दिल्ली, यांच्या दिनांक ०३/०७/२०२४ रोजीच्या पत्र.क्रं **EC23B2501MH5708797N** जवाहर शेतकरी सहकारी साखर कारखाना लि., हुपरी श्री. कल्लाप्पाण्णा आवाडेनगर, हुपरी- यळगुड, ता. हातकणंगले, जि. कोल्हापुर, (महाराष्ट्र राज्य) येथील प्रस्तावित १०० कि.लि. प्रति दिन बी आणि सी हेवी मोलॅसीस/केन ज्युस वर आधारित आसवणी प्रकल्पासाठी पर्यावरण स्वीकृती मिळाली आहे. संबंधीत कागद पत्रांच्या प्रती महाराष्ट्र प्रदुषण नियंत्रण मंडळ, कारखाना आणि पर्यावरण, वने व हवामान बदल मंत्रालयाच्या खालील संकेतस्थळावर उपलब्ध आहेत.

http://envfor.nic.in

कार्यकारी संचालक

जवाहर शेत. सह. साखर कारखाना लि., हुपरी