JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

Shri Kallappanna Awadenagar, Hupari-Yalgud 416 203, Tal.: Hatkanangale, Dist.: Kolhapur (Maharashtra) Phone (0230) 2450402, Fax (0230) 2450401 E-mail : kprisssk@gmail.com Website : www.jawaharsugar.com

Ref. No. MFG/ ETP / 1571 /2023

Date: - 22/05/2023

To,

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

- Sub: Submission of Six Monthly Environment Compliance report for period October- 2022 to March- 2023 w.r.t Co-gen Unit of 28.5 MW – Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari. Shri Kallappanna Awadenagar Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra State.
- Ref: Environmental Clearance (EC) Letter No. ENV (NOC) 2005/1591/CR224/TC-II dated 27.08.2007.

Dear Sir,

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

We are submitting a six monthly compliance report for a period of October- 2022 to March- 2023.

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

Thanking you,

Yours Eaithfully, (M.G.Joshi) Managing Director

Encl. - As above

Copy for information to: -

 To, The Integrated Regional Office MoEFCC; Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur – 440001 Email - <u>apccfcentral-ngp-mef@gov.in</u> <u>eccompliance-mh@gov.in</u>

- 2. Sh.Bharat Kr. Sharma Scientist 'F" Central Pollution Control Board Pune Email – <u>bksharma.cpcb@nic.in</u>
- 3. Member Secretary Maharashtra Pollution Control Board Kalpataru Point, 3^{rd &} 4th floor, Opp.Cine Planet, Near Sion Circle,Sion (E), Mumbai (Maharashtra) – 400 022 Email – <u>ms@mpcb.gov.in</u>
- **4.** Regional Officer,

Maharashtra Pollution Control Board Udyog Bhavan Building, Near Collector Office, Kolhapur – 416 002 Email – <u>rokolhapur@mpcb.gov.com</u>

GOVERNMENT OF MAHARASHTRA

雷 2285 50 82 日 2202 59 46 No.ENV(NOC)2005/1591/CR224/TC-II ENVIRONMENT DEPARTMENT, Mantralaya, New Administrative Bldg., 15th floor, Madam Cama Marg, MUMBAI - 400 032.

Dated: 27 AUG 2007

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

Sub : Environment clearance.

Sir.

To.

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

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

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

You's faithfully. ANV 10A

(Surendra Jadhav) Deputy Secretary to Government

ENCL : As above.

JAWAHAR SSSK LTD. HUP-	2
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Secretary / Menaging Director.	a

- The Project Authority shall take adequate safety precautions in handling the raw materials, plant and machinery and the products of the processes so as to avoid any damage / less of lie of property, or environment.
- The Project Authority shall provide personal protective equipments, impart training and medical facilities to the workers handling the hazardous / dangerous raw materials, finished products or processes.
- 3. The Project Authority shall prepare the on-site disaster management plan and should submit to the Director, Industrial Safety and Health. The copies of which shall also be submitted to the District Collector, Local Authority, Maharashtra Pollution Control Board (MPCB) and the Environment Department, Government of Maharashtra. The Project Authority shall submit the Information to the Director, Industrial Safety and Health for the preparation of the off-site disaster management plan. The Project Authority should carry out periodical rehearsal of the on-site disaster management plan.
- 4. The Project Authority shall comply with all statutory requirements for safe transportation of raw materials / finished products in case of trucks / tankers carrying hazardous raw materials is shall be washed and cleaned up within the plant premises, so as to ensure no pollution in the vicinity.
- 5. The Project Authority shall use cleaner technology for the manufacturing process and the clean fuel for the operations so as to reduce process waste, liquid effluents and gaseous emissions.
- 6. The Project Authority shall treat the liquid effluents so as to confirm to the standards prescribed by MPCB. The disposal of the treated effluent shall be in accordance with the conditions imposed by MPCB /| GOM (Government of Maharashtra / Government of India). The continuous monitoring facility for the effluents should be provided by the project authority. If the effluent quality exceeds the standards at any time the corresponding units of the plant which are contributing the excessive pollutant load shall be stopped from the operations till the quality of pollutant discharged from those units are brought down to the required level. Under no circumstances, the quality of the effluent shall exceed the limits mentioned in the consent letter. The Project Authority should draw water consumption plans and the time bound sincere efforts for the reduction of water consumption should be made.
- 7. In case the treated effluent is proposed to the utilized for land irrigation / gardening on the land owned by the Project Authority, the sufficient area should be earmarked for the same purpose in consultation with the Agriculture Department. Under no circumstances, such an effluent should be allowed to flow outside the premises of the project. During Monsoon on heavy rainfall period, if the treated effluent can not be absorbed in the project land and there is likelihood of the effluent going into the nearby areas, the respective unit should be put out of operation immediately. For the purpose of effluent disposal, mechanical system (Sprinkler etc.)and shall make adequate arrangements for the storage of excessive effluent (impervious storage tank etc.)in consultation with MPCB.
- 8. The Project Authority shall regularly and periodically undertake soil testing of the land which are being used for the disposal of the effluent and shall also undertake periodical and regular testing of water sources in the vicinity of the project.
- The Project Authority shall control the air emissions as per the standards prescribed by MPCB. No change in the design of stack and fuel mix be done, without the permission of MPCB. Minimum number of air quality monitoring

2

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

- 10. The process emissions shall meet the standards prescribed by MPCB. At no time, the emissions should be beyond the standards. The respective units which exceed the standard should be put out of order immediately and should not be restarted until the control systems are rectified.
- 11. The solid waste shall be treated and disposed off as prescribed in the authorization certificate granted by MPCB in accordance with the Hazardous Waste (Handling and Management) Rules, 1989 (wherever applicable).
- The Project Authority shall take precautions so as to reduce other types of environmental problems like noise, odour, thermal / heat and radio activity etc. (if applicable).
- 13. The Project Authority shall set up environment management cell with a suitably qualified staff, to carry out various functions of the environment management. The Environment Management Plan should be prepared by the project authority shall also earmarked submitted to MPCB.³¹ The Project Authority shall also earmarked funds for the Environment Management Cell and same shall not be diverted for any other purpose. The Project Authority shall prepare environment statement every year and copy of the same should be submitted to the MPCB.
- 14. The cases of any disaster / accident / mishap due to handling raw materials, process, plant and machinery or finished products, the Project Authority shall be personally, jointly and severally be responsible for the event.
- 15. Tree plantation programs should be undertaken at the rate of not less than 2500 trees per halon the factory land, in consultation with the Forest Department of the State Government and MPCB.
- 16. This environment clearance is not transferable and shall lapse after a period of 2 years from the date on which the clearance is given, unless the intended development is commenced before the explicit of the period. This period is the intended development is commenced before the explicit of the period. This period is the intended development is commenced before the explicit of the period. This period is the intended development is commenced before the explicit of the period. This period is the intended development is commenced before the explicit of the period.
- 17. The Project Authority must strictly adhers to the stipulations made by MPCB / Government of Maharashtra / Government of India. The Project Authority shall submit the compliance report regarding conditions imposed by MPCB / Government of Maharashtra (Environment Department) / Government of India before commencement of production / activity.
- 18. The Company should used a treated effluent for afforestation and create a green belt around the factory premises with necessary fencing around it.

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Six monthly (Period October 2022- March 2023) Compliance report for M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd for Cogeneration plant of 28.5 MW

A. Brief Summary of the Project

Name of Project& Address	:	M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari (JSSSKL), located at Kallappanna
		Awadenagar, Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, Maharashtra State
Type of Project		28.5 MW Cogeneration plant
Clearance Letter No. & date	:	ENV (NOC) 2005/1591/CR224/TC-II, dated 27.08.2007 Enclosure – I

M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd. Hupari (JSSSKL) is an integrated Project Complex of Sugar factory (16,000 TCD) & Co-gen plant (28.5 MW) located at Kallappanna Awadenagar, Hupari-Yalgud, Tal.:Hatkanangale, Dist.: Kolhapur, Maharashtra State. JSSSKL was established in year 1990 under The Maharashtra Co-operative Society Act 1960. Sugar factory was registered with Govt. of Maharashtra, vide Certificate No. KPR/HLE/PRG (A)/30(S)/29-JAN-1990. In addition, it has been registered as Multi-State Co-operative Society Vide recanntration no. MSCS/CR-51/30-DEC-1994. The First crushing season of Sugar Factory was undertaken in the year 1993-94. Environmental Clearance was granted to 7,500 TCD Sugar and 28.5 Co-gen by Maharashtra Government vide letter no. ENV (NOC) 2005/159/CR224/TC-II, dated 27thAugust 2007. Further, in year 2016 the Management of JSSSKL again planned to go for Expansion of Sugar Factory 7,500 TCD to 12,000 TCD for which EC was procured vide letter no. J-11011/38/2016-IA-II (I) dated 20th December, 2016. Thereafter JSSSKL planned to go for Expansion of Sugar Factory 12,000 TCD to 16,000 TCD for which EC was procured vide letter No. F.No. IA-J-11011/146/2020-IA II (I) Dated 1st December, 2020. Moreover, in the year 2021 an amendment in 16000 TCD sugar factory EC was done by MoEFCC w.r.t usage of treated effluent in own factory premises.

B. Status of Condition Compliance:

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Compliance of Specific and General Conditions mentioned in Environmental Clearance (EC) letter vide no. ENV (NOC) 2005/1591/CR224/TC-II, dated 27thAugust 2007 for period October 2022- March 2023 as follows-

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated						
1	Condition No.1							
	The Project Authority shall take adequate	Adequate safety measures for handling the						
	safety precautions in handling the raw	raw material, plant and machinery are taken.						
	materials, plant and machinery and the	Employees are provided with PPEs kits.						
	products of the processes so as to avoid any	Bagasse which is used as fuel for boiler is						

	damage/ less of lie of property or environment.	transported to boiler through close conveyor belt. Moreover, Industry is following the safety measures during manufacturing process in material handling. Industry has installed &provided fire-fighting system infrastructure comprising of fire water lines, fire hydrants, fire tender, fire extinguishers etc. at all strategic & fire prone areas in the industry, bagasse yard, molasses storage section etc. The firefighting arrangements have been provided on site as per Factories Act. Regular firefighting mock drills are conducted to train workers for fire hazards. Latest mock drill was carried out Photographs of Firefighting system, Mock drill, Boiler interlocks is enclosed at Annexure – I.					
2	Condition No.2 The Project Authority shall provide personal protective equipments; impart training and medical facilities to the workers handling the hazardous/dangerous raw materials, finished products or processes.	process. The workers engaged in handling operations are provided with necessary					
3	Condition No.3 The Project Authority shall prepare the on- site disaster management plan and should submit to the Director, Industrial Safety and Health. The copies of which shall also be submitted to the District Collector, Local Authority, Maharashtra Pollution Control Board (MPCB) and the Environment Department, Government of Maharashtra. The Project Authority shall submit the information to the Director, Industrial Safety and Health for preparation of the off-site disaster management plan. The Project	Risk Assessment Report have already prepared for entire project complex. Therein, identification of hazard and migration measures have been suggested. Moreover, the fire hazard areas like bagasse storage yard, switch yard etc. have been provided with appropriate firefighting arrangement. Periodic mock drills are conducted for imparting training on handling hazardous situations and handling of firefighting equipments. Photographs of Firefighting system and Mock drill is enclosed at					

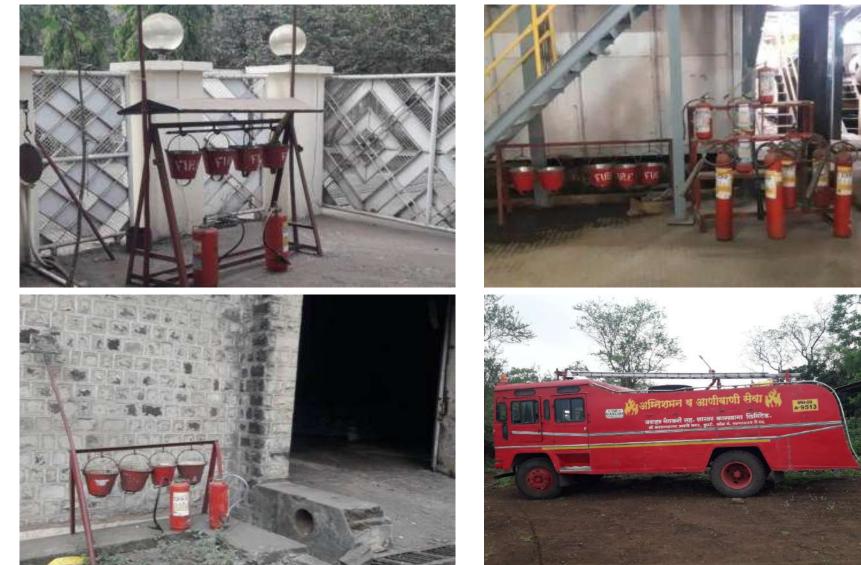
	Authority should carry out periodical	Annexure I.
	rehearsal of the on-site disaster management plan.	
4	Condition No.4 The Project Authority shall comply with all statutory requirements for safe transportation of raw materials/ finished products in case of trucks/tankers carrying hazardous raw material shall be washed and cleaned up within the plant premises, so as to ensure no pollution in the vicinity.	Not applicable. Since electricity generated is directly fed to MSEB grid.
5	Condition No.5 The Project Authority shall be use cleaner technology for the manufacturing process and the clean fuel for the operations so as to reduce process waste, liquid effluents and gaseous emissions.	In Co-gen plant electricity is generated using steam from boiler. Bagasse is used as fuel for steam generation, which is one of the process waste of sugar factory. Moreover, excess condensate water from sugar factory is used in process.
6	Condition No.6 The Project Authority shall treat the liquid effluents so as to confirm to the standards prescribed by MPCB. The disposal of the treated effluent shall be in accordance with the conditions imposed by MPCB / GOM (Government of Maharashtra / Government of India). The continuous monitoring facility for the effluent should be provided by the project authority. If the effluent quality exceeds the standards at any time, the corresponding units of the plant which are contributing the excessive pollutant load shall be stopped from the operations till the quality of pollutant discharged from those units are brought down to the required level. Under no circumstances, the quality of the effluent shall exceed the limits mentioned in the consent letter. The Project Authority should draw water consumption plans and the time bound sincere efforts for the reductions of water consumption should be made.	Effluent generated from Co-gen plant operation is forwarded to sugar factory ETP. The same is treated in state of art effluent treatment plant. The treated effluent is used for gardening and development of green belt in own factory premises. OCMS is installed for ETP. Moreover, STP's of capacity 100 KLPD and 50 KLPD has been installed on site for treatment of domestic effluent. Flow sheet and Photographs of ETP as well as that of STP is enclosed at Annexure –III
7	Condition No7 In case of the treated effluent is proposed to the utilized for land irrigation / gardening on the land owned by the project Authority, the	No effluent is discharge outside industrial premises. The treated effluent is being recycled and use for gardening in premises.

	sufficient area should be earmarked for the same purpose in consultation with the Agriculture Department. Under no circumstances, such an effluent should be allowed to flow outside the premises of the project. During Monsoon on heavy rainfall period, if the treated effluent cannot be absorbed in the project land and there is likelihood of the effluent going into the nearby areas, the respective unit should be put out of operation immediately. For the purpose of effluent disposal, mechanical system (Sprinkler etc.) and shall make adequate arrangements for the storage of	Online monitoring system as well as flow meter is provided for ETP. Moreover, impervious storage tank have been provided for the storage of treated effluent. Flow sheet and Photographs of ETP as well as that of STP is enclosed at Annexure –III.
	excessive effluent (impervious storage tank etc.) in consultation with MPCB.	
8	Condition No.8 The Project Authority shall regularly and periodically undertake soil testing of land which are being used for the disposal of the effluent and shall also undertake periodical and regular testing of water sources in the vicinity of the project.	The treated effluent from sugar factory ETP is used for gardening and development of green belt in own factory premises. Moreover, soil testing laboratory is established within plant premises and regular monitoring is being carried out.
9	Condition No.9 The Project Authority shall control the air emissions as per the standards prescribed by MPCB. No change in the design of stack and fuel mix be done without the permission of MPCB. Minimum number of air quality monitoring stations should be set up in consultation with MPCB in the plant and nearby areas. The air quality should be monitored on regular basis. All the stacks of the plant should be provided with the continuous stack monitoring equipment and stack emission levels shall be recorded and submitted to the MPCB as per their directives.	ESPs as APC are provided followed by stack height of 75M (common for 90 TPH and 20 TPH) & 72M for 75 TPH boiler to control particulate matter and Gaseous pollutants. As per latest guidelines of CPCB, online monitoring system (OCMS) has been installed for boiler. Moreover, industry conducts self-monitoring w.r.t. Ambient Air, Stack Emissions, Noise as well as analysis of untreated and treated effluent on monthly basis. The same is done through an approved laboratory. The AAQ locations are selected in upwind and downwind directions. The report as well as OCMS Photographs of the same are enclosed at Annexure - IV
10	Condition No.10 The process emissions shall meet the standards prescribed by MPCB. At no time, the emissions should be beyond the standards. The respective units which exceed the standard should be put out of order immediately and should not be restarted until	The condition is being followed. As per latest guidelines of CPCB, online monitoring systems (OCMS) have been installed for boiler. Moreover, industry conducts self- monitoring w.r.t. Ambient Air, Stack Emissions, Noise as well as analysis of

	the control systems are rectified.	untreated and treated effluent on monthly basis. The same is done through an approved laboratory. The report of the same are enclosed at Annexure IV
11	Condition No.11 The solid waste shall be treated and disposed off as prescribed in the authorization certificate granted by MPCB in accordance with the Hazardous Waste (Handling and Management) Rules, 1989 (Wherever applicable).	Hazardous waste in form of Used Oil is burnt in boiler along with bagasse. Moreover, Solids waste in form of boiler ash is given to farmers as Manure / Brick Manufacturing.
12	Condition No. 12 The project Authority shall take precautions so as to reduce other types of environment problems like noise, odour, thermal/heat and radio activity etc. (if applicable).	Major noise generating source are Boiler, Turbine, D.G. Set etc. The overall noise level in the around the plant area are maintained within the standards prescribed under Environment (Protection) Act, 1986 Rules. Workers working in noisy area are provided with personal protective equipment's such as earplug, earmuffs etc. The measures adopted under existing unit for controlling the same are proper housekeeping, sludge management in biological ETP units, steaming of major pipe lines, regular use of bleaching powder in the drains, efficient handling, prompt & proper disposal of pressmud. No any radioactive substances are used in Co-gen plant.
13	Condition No. 13 The Project Authority shall set up environment management cell with a suitably qualified staff, to carry out various functions of the environment management. The Environment Management Plan should be prepared by the project authority shall also earmarked submitted to MPCB. The project Authority shall also earmarked funds for the Environment Management Cell and same shall not be diverted for any other purpose. The Project Authority shall prepare environment statement every year and copy of the same should be submitted to the MPCB.	The industry has an Environmental Management Cell (EMC) functioning. Members of the EMC are well qualified and experienced in their concerned fields. A separate Environment Management cell is already established. Structure of EMC is enclosed at Annexure - V

14	Condition No. 14 The cases of any disaster/accident/mishap due to handling raw materials, process, plant and machinery or finished products, the Project Authority shall be personally, jointly and severally be responsible for the event. Condition No. 15	Noted.
	Tree plantation programs should be undertaken at the rate of not less than 2500 trees per ha on the factory land, in consultation with the Forest Department of the state Government and MPCB.	Total Plot area of JSSSKL is 99.57 Ha. Industry has developed a green belt on area of 39.9 Ha. This comes to about 40% of total plot area.Total 69279 Nos. of trees have been planted in the factory premises. Which includes 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 VI .
16	Condition No. 16 This environment clearance is not transferable and shall lapse after a period of 2 years from the date on which the clearance is given, unless the intended development is commenced before the expiry of the period.	The Condition is followed by industry.
17	Condition No. 17 The Project Authority must strictly adhere to the stipulations made by MPCB/ Government of Maharashtra/ Government of India. The Project Authority shall submit the compliance report regarding conditions imposed by MPCB/ Government of Maharashtra (Environment Department)/ Government of India before commencement of production/activity.	Industry is strictly following all the stipulations made by the Central Pollution Control Board (CPCB) as well as Maharashtra State Pollution Control Board (MPCB).
18	Condition No. 18 The Company should use a treated effluent for afforestation and create a green belt around the factory premises with necessary fencing around it.	Effluent is treated in existing sugar factory ETP. Treated effluent is used for gardening and development of Green belt purpose in the industrial premises.

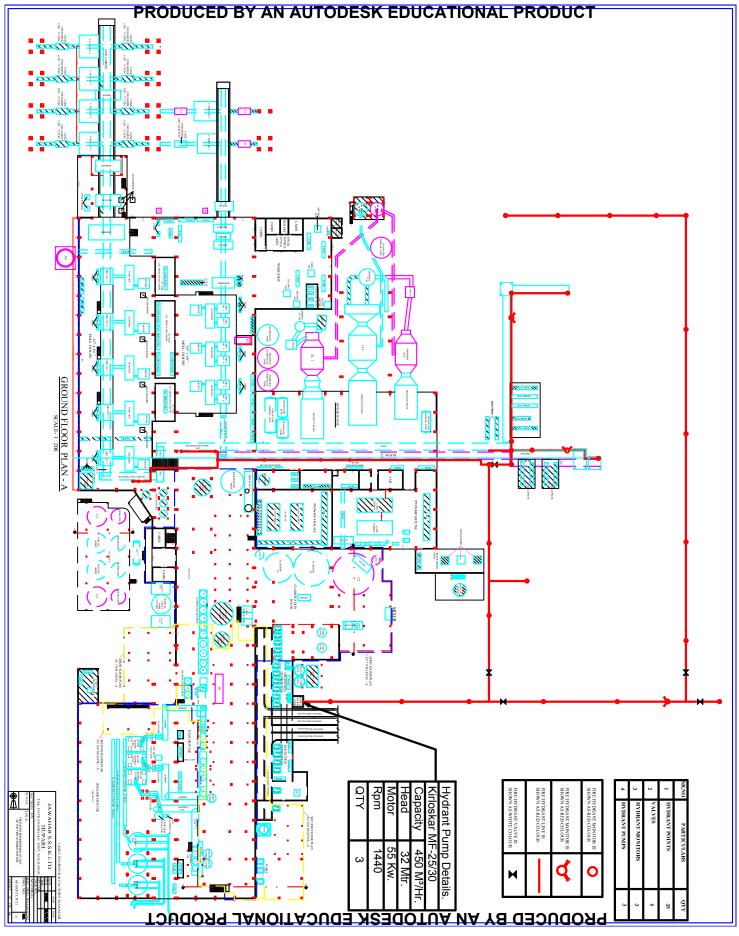
Annexure – I Photographs of Firefighting & Mock drill



Photographs of firefighting arrangements

Photographs of Mock Drills





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Boiler Interlock

Fuel Handling System:-

- 1) Excess Bagasse Carrier stopped or tripped then MBC, CCSC and RBC tripped.
- 2) MBC stopped or tripped then CCSC and RBC tripped.
- 3) CCSC stopped or tripped then RBC tripped.
- 4) Pole cord switch or belt swa switch act then RBC tripped.

Ash Handling System:-

1) Ash Belt elevator stopped or tripped then all ash belt conveyer and ESP and APH RAV tripped.

FAN Interlock System:-

- 1) ID FAN stopped or tripped then FD FAN, SA FAN and fuel handling System are tripped.
- 2) FD FAN stopped or tripped then SA FAN and fuel handling System are tripped.
- 3) SA FAN stopped or tripped then fuel handlings System are tripped.

Drum Level Interlock:-

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

Bagasse Feeder interlocks:-

- 1) Screw feeder stopped or tripped then bagasse feeder tripped.
- 2) SA FAN air pressure for fuel feeding less than 350 mmWc or both SA Fan stopped or tripped.

Feed Pump Interlock :-

 Deareator level less than 30% or suction pressure less than 1kg/cm² or suction valve close or in between feedback or motor bearing temperature 90 °C or winding temperature greater than 110 °C or feed pump cooling water pressure less than 2 kg/cm². All any above conditions or any one of above conditions occur then feed pump tripped.

ESP Interlock System:-

1) Any of ESP RAV stopped or purge air blower stopped or tripped or ESP inlet flue gas temperature less than 130 °C or ESP hopper level hi hi alarm then ESP TRCC tripped.

Boiler Alarm

- 1) ID, FD, SA and BFW bearing temperature greater than 80 $^{\circ}$ C.
- 2) ID, FD, SA and BFW winding temperature greater than 90 $^{\circ}$ C.
- 3) Fuel feeding air pressure for bagasse less than 450 mmWc.
- 4) ESP inlet Temperature 140° C.
- 5) Main steam pressure less than 80 kg/cm^2 .
- 6) Main steam Temperature 500 °C.
- 7) Main steam pressure greater than 90 kg/cm^2 .
- 8) Main steam Temperature 529 ^oC.
- 9) Deareator level less than 60%
- 10) Deareator level greater than 90%
- 11) Deareator Temperature less than 105 °C.
- 12) Deareator Temperature greater than 112 °C.

Turbine Interlock System

Turbine Tripping Interlock:-

- 1) Lube oil pressure less than 1.8 kg/cm^{2.}
- 2) Control oil pressure less than 7.8 kg/cm².
- 3) Oil tank level less than 36.5%.
- 4) Turbine inlet pressure less than 41.5 kg/cm².
- 5) Turbine inlet temperature less than 485 ^oC.
- 6) Turbine inlet pressure greater than 99 kg/cm².
- 7) Turbine inlet temperature greater than 543 $^{\circ}$ C.
- 8) Exhaust steam temperature less than 120° C.
- 9) Exhaust steam Temp. between 105 ^oC and 120 ^oC. more than 1hr.
- 10) Exhaust steam pressure less than -0.763 kg/cm².
- 11) Hotwell level greater than 92.5%.
- 12) OHT level less than 94%.
- 13) Turbine no load more than 1hr.

Pressure Timer:-

Timer T1:

TG inlet pressure in between 87.12 kg/cm^{2.} And 99.56 kg/cm^{2.} Then timer start for counting 12 hr (paused timer). After completion 12 hr then turbine trip.

Timer T2:

Turbine running time 1year after that turbine Trip.

Temperature Timer:

Timer T1 (Retentive Timer):

TG inlet Temp. in Between 523 $^{\circ}$ C to 529 $^{\circ}$ C then timer start counting 16 day 16 hr (paused timer) after completion 16 day 16 hr then turbine trip.

Timer T2 (Retentive Timer):

Turbine running time 1year after that turbine Trip.

Timer T3 (Retentive Timer):

TG inlet Temp. in Between 529 $^{\circ}$ C to 543 $^{\circ}$ C then timer start counting 3 day 8 hr (paused timer) after completion 3 day 8 hr then turbine trip.

Timer T1:

TG inlet Temp. in Between 529 $^{\circ}$ C to 543 $^{\circ}$ C continuously timer start for 15 min (reset timer) after completion 15 min then turbine trip.

Vibration Alarm and Trip Condition(Turbine, gearbox and Alternator):-

SR	TAG	Service Name	Alarm	Trip	Alarm	Alarm
NO			Н	НĤ	L	LL
1	ZI-801	Axial Displacement	0.4 mm	0.6 mm	-0.4mm	-0.6mm
2	ZI-802	Axial Displacement	0.4 mm	0.6 mm	-0.4mm	-0.6mm
3	YI-801	Turbine Front Bearing Vibration X-axis	76 µ	99 µ		
4	YI-802	Turbine Front Bearing Vibration Y-axis	76 µ	99 µ		
5	YI-803	Turbine Rear Bearing Vibration X-axis	76 µ	99 µ		
6	YI-804	Turbine Rear Bearing Vibration Y-axis	76 µ	99 µ		
7	YI-805	GB High Speed DE Vibration X-axis	65 μ	125 μ		
8	YI-806	GB High Speed DE Vibration Y-axis	65 μ	125 μ		
9	YI-807	GB High Speed NDE Vibration X-axis	65 μ	125 µ		
10	YI-808	GB High Speed NDE Vibration Y-axis	65 μ	125 µ		
11	YI-809	GB Low Speed NDE Vibration X-axis	90 µ	150 μ		
12	YI-810	GB Low Speed NDE Vibration Y-axis	90 µ	150 μ		
13	YI-811	GB Low Speed DE Vibration X-axis	90 µ	150 μ		
14	YI-812	GB Low Speed DE Vibration Y-axis	90 µ	150 μ		
15	YI-813	Alternator Front Vibration X-axis	178 μ	232 μ		
16	YI-814	Alternator Front Vibration Y-axis	178 μ	232 μ		
17	YI-816	Alternator Rear Vibration X-axis	178 μ	232 μ		
18	YI-817	Alternator Rear Vibration Y-axis	178 μ	232 μ		
19	-	Exciter Field Volt	200 V	200 V		
20	-	Exciter Field Current	25 A	25 A		

Bearing Temperature, Alarm and Trip Condition(Turbine, gearbox):-

SR	SENSOR	ALARM	TRIP
NO			
1	Turbine Thrust active top bearing Temp.	95 ⁰ C.	100 ⁰ C.
2	Turbine Thrust non active top bearing Temp.	95 ⁰ C.	100 ⁰ C.
3	Turbine Front Bearing Temp.	110 ⁰ C.	120 ⁰ C.
4	Turbine Rear Bearing Temp.	110 ⁰ C.	120 ⁰ C.
5	Turbine active bearing Bottom Temp.	95 ⁰ C.	100 ⁰ C.
6	Turbine non active bearing Bottom Temp.	95 ⁰ C.	100 ⁰ C.
7	Gear box High speed front bearing Temp.	100 ⁰ C.	107 ⁰ C.
8	Gear box High speed rear bearing Temp.	100 ⁰ C.	107 ⁰ C.
9	Gear box low speed front bearing Temp.	85 ⁰ C.	90 ⁰ C.
10	Gear box low speed rear bearing Temp.	85 ⁰ C.	90 ⁰ C.

Bearing Temperature, Alarm and Trip Condition(Alternator):-

SR	SENSOR	ALARM	TRIP
NO			
1	Alternator Front Bearing Temp.	85 ⁰ C.	95 ⁰ C.
2	Alternator Rear Bearing Temp.	85 ⁰ C.	95 ⁰C.
3	Alternator Winding Temp. (U1)	125 ⁰ C.	130 ⁰ C.
4	Alternator Winding Temp. (V1)	125 ⁰ C.	130 ⁰ C.
5	Alternator Winding Temp. (W1)	125 ⁰ C.	130 ⁰ C.
6	Alternator Winding Temp. (U2)	125 ⁰ C.	130 ⁰ C.
7	Alternator Winding Temp. (V2)	125 ⁰ C.	130 ⁰ C.
8	Alternator Winding Temp. (W2)	125 ⁰ C.	130 ⁰ C.
9	Inlet air Temp1 (Not Trip)	50 ⁰ C.	55 ⁰ C.
10	Outlet air Temp1 (Not Trip)	80 ⁰ C.	85 ⁰ C.
11	Inlet air Temp2 (Not Trip)	50 ⁰ C.	55 ⁰ C.
12	Outlet air Temp2 (Not Trip)	80 ⁰ C.	85 ⁰ C.
13	Alternator Core-1 Temp.	125 ⁰ C.	130 ⁰ C.
14	Alternator Core-2 Temp.	125 ⁰ C.	130 ⁰ C.
15	Alternator Core-3 Temp.	125 ⁰ C.	130 ⁰ C.
16	Exciter Field Temp.	125 ⁰ C.	130 ⁰ C.

CEP Interlock System:-

- 1) Condensate discharge header pressure less than 3.5 kg/cm² then CEP auto start.
- 2) Hotwell level Greater 84.40% then auto start.
- 3) Hotwell level less than 20% then CEP Pump tripped.

Barring Gear Motor Interlock System:-

- 1) Lube oil pressure greater than 1.95 kg/cm^2 then barring gear motor start permissive.
- 2) Turbine RPM less than 250 RPM then barring gear motor start permissive.
- 3) EOP ready or HOT level greater than 94% barring gear motor start permissive.

4) Turbine speed greater than 350 RPM then barring gear motor auto stopped.

Hood Spray Valve Interlock System:-

- 1) Exhaust temperature greater than 80 ^oC then auto open valve.
- 2) Exhaust temperature less than 55 ^oC then auto close valve.
- 3) Hood spray valve continuously 1 hr open then auto valve closed.

Vacuum Breaker Valve Interlock System:-

- 1) Lube oil header pressure less 1.95 kg/cm^2 then auto open.
- 2) Generator differential relay operated than auto open.
- 3) Turbine rotor axial movement hi hi.
- 4) Turbine RPM less than 70% then open.

Turbine Extraction QCNRV Interlock System:-

- 1) Active Power greater than 6.6 MW then valve open permissive.
- 2) Active Power less than 5.5 MW then valve auto closed.
- 3) Turbine Trip then valve auto closed.

Turbine Bleed QCNRV (HP Heater) Interlock System:-

- 1) TG inlet Steam flow greater than 40 TPH then open permissive.
- 2) TG inlet Steam flow less than 35 TPH then valve auto closed.
- 3) Turbine Trip then valve auto closed.

Turbine Bleed QCNRV (MP Process) Interlock System:-

- 1) TG inlet Steam flow greater than 40 TPH then open permissive.
- 2) TG inlet Steam flow less than 35 TPH then valve auto closed.
- 3) Turbine Trip then valve auto closed.

Wonder Bleed Control Valve 101 Interlock System:-

- 1) TG Steam Flow greater than 40 TPH then valve open permissive.
- 2) TG Steam Flow less than 35 TPH then valve auto closed.
- 3) TG Steam Flow greater than 65 TPH then valve auto closed slowly and wonder valve 102 slowly simultaneously opened.
- 4) Turbine Trip then valve auto closed.

Wonder Bleed Control Valve 102 Interlock System:-

- 1) TG Steam Flow greater than 65 TPH then valve open permissive.
- 2) TG Steam Flow less than 60 TPH then valve auto closed.
- 3) TG Steam Flow greater than 60 TPH then valve auto closed slowly and wonder valve 101 slowly simultaneously opened.
- 4) Turbine Trip then valve auto closed.

Annexure - II Health Checkup Report

HEALTH REGISTER

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

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

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

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				ĵ.	ent of rk	ving or other wor	leaving discharg	b or	al or bye dled		edical	l from eriod of vith	to on with urgeon	of ssued to th gate - the ceon.
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 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 unfitues or suspention issued to worker Signature with gate - certifying surgeon.
1	2304	MR. ASHOK S NALLAWADE	42	2 M		NA	NA			02/09/2022	Fit	NA	Fit	A
2	6023	MR. AKASH A BODHALE	30) M	<u>k.</u>	NA	NA	-		02/09/2022	Fit	NA	Fit	TA
3	1817	MR. JAWAHAR B MALI	47	M	÷	NA	NA			02/09/2022	Fit	NA	Fit	11A
4	7362	MR. MANOJ B KARAKE	B 1	M		NA	NA :			02/09/2022	Fit	NA	Fit	
5	1099	MR. KAMLAKAR B SUTAR	52	M		NA	NA		1	02/09/2022	Fit	NA	Fit	NA
6	0334	MR. ARUN D PATI	58	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA NA
7	2030	MR. SUNIL M KIRUNGI	32	M	-	NA	NA			02/09/2022	Fit	NA	Fit	
8	1346	MR. PARGONDA N PATIL	\$1	M	-	NA	NA	2		02/09/2022	Fit	NA	Fit	NA NA
9	7451	MR. HEMANT R PATIL	26	M	-	NA	NA			02/09/2022	Fit	NA	Fit	
10	0853	MR. IQBAL A ATTAR	49	M	-	NA	NA			02/09/2022	Fit	· NA		NA
11	2066	MR. BHIMRAO M VAJANTRI	57	M	<u> </u>	NA	NA			02/09/2022	Fit		Fit	NA
12	1721	MR. JAGDISH K PATIL	48	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA
13	0308	MR. SARDAR S ROHILE		M		NA NA	NA					NA	Fit	NA
14		MR. SARDAR S MOMIN	40	M						02/09/2022	Fit	NA	Fit	NA
15		MR. SANJAY A AKIWATE				NA	NA			02/09/2022 .	Fit	NA	Fit	NA A
6		NR. VASANT A GHUNAKE	-	M		NA	NA			02/09/2022	Fit	NA	Fit	XX /
17				M		NA	NA			02/09/2022	Fit	NA	Fit	(NA
18 .			-	M	<u> </u>	NA	NA	8		02/09/2022	Fit	NA ·	Fit A	NN A
10			-+	M		NA	NA	1		02/09/2022	Fit	NA	Fit	CN D
19	7364 1	MR. MALLU B AMALE	24	M		NA	NA :			02/09/2022	Fit	NA Dr.	ARVINC	ANMANE
	2 2							1					M.B.B.S., D.P.H	DA.F.I.H. (MUMBAI)
	Page 1 of	of 66	+											: 201 0/10/B176

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HEALTH REGISTER

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

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

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

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1														
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.
1583	MR. UTTAM S MANGALE	52	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	100
7308	MR. PANKAJ S SHINDE	23	M	- 203	NA	NA	1		02/09/2022	Fit	NA	Fit	NA	
1234	MR. SURESH L POL	49	M	-	NA	NA	1		02/09/2022	Fit	NA	Fit	NA []	
7254	MR. PRATHAMESH CHOUGULE	23	M	57 B	NA	· NA ·			02/09/2022	Fit	' NA	Fit	NA	+
1719	MR. AMOL A PATIL	43	М	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1475	MR. SUNIL A TASHILDAR	53	М	· · · · ·	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1777	MR. SANJAY K BADBADE	40	М	(NA	NA	1	*	02/09/2022	Fit	NA	Fit	NA	
1469	MR. ABHAY B PATIL	48	M	- !	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1967	MR. TUKARAM M CHAVAN	39	М	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0073	MR. MAHAVIR A BARWADE	59	м	- L.	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1884	MR. SANTOSH A KOLI	37	м	- 1	NA	NA			02/09/2022	Fit	NA	Fit	NA	
6032	MR. PRAVIN B GURAV	30	M	-	NA	NĂ		-	02/09/2022	Fit	NA	Fit	NA	
0948	MR. RAJENDRA KOLHAPURE	58	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
1816	MR. DAYANAND A KAMBLE	40	M	- 1	NA	NA			02/09/2022	Fit	NA	Fit	//NA	jb.
2028	MR. SOPAN B BIRJE	32	м		NA	NA			02/09/2022	Fit	NA	Fit	NA /	1
0954	MR. BALU S MALI	52	M	-	NA	NA		\$	02/09/2022	Fit	· NA	Fit X	NA	
0623	MR. SHIVAJI K KOLI	52.	M	· - j.	NA	NA		5 a	02/09/2022	Fit	NA	Fil	NA	
2134	MR. MOHAN J HEGADE	55	M	- ···.	NA	NA .			02/09/2022	Fit	NA ·	CHIU	, MA	1
0934	MR. DASHARATH N BAGAL	48	M		NÁ	NA			02/09/2022	Fit	Nor. A	RVIND	A. MAN	
					0						MMC F	B.B.S., D.P.H.A EGD. NO.: INDIA-DGFASL	2010/10/31	76
Page 2	of 66			- 1 - 1 - 1					(A		GOVI. OF	INDIA-DOFAGL	Hoalth Phy	sician

Consultant Industrial Health Physician

HEALTH REGISTER

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

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

	Emp. No.	Name	Ace	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.
	0652	MR. VIRAPPA B BHANSE	56	M	-	NA	NA	1		02/09/2022	Fit	NA	Fit	NA	
	0996	MR. RAKESH D MALI	49	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
	6068	MR. KALPESH K KAPASE	33	M	-	NA	NA		15 14	02/09/2022	Fit	NA	Fit	NA	
	0931	MR. SHAMRAO M MOHITE	-54	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
	7290	MR. BHUSHAN J NARWADE	26	M	-	NA	NA		a.	02/09/2022	Fit	NA	Fit	NA	
	1725	MR. BAPUSO D VANI	48	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
	7230	MR. ADESH A YADAV	24	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
	1687	MR. SHREANSH PATIL	50	M	- 1	NA	ŇA			02/09/2022	Fit	NA	Fit	NA	1
	1261	MR. SANDEEP B PATIL	42	M	- 2	NA	NA		1	02/09/2022	Fit	NA	Fit	NA	
1	2254	MR. SACHIN P KHOT	27	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
	6012	MR. S M KOIK	29	M	= e: 1	NA	NA			02/09/2022	Fit	NA	Fit	NA	
T	2180	MR. RUTURAJ M INAMDAR	30	M	-	NA	NA.			02/09/2022	Fit -	NA	Fit	NA	
1	1569	MR. SUNIL S SHETKE	52	M	-	NA	NA	1	e (j.	02/09/2022	Fit	NA	Fit	NA 1	
	1694	MR. SHREEDHAR PATIL	47	М	• *	NA	NA	1	*	02/09/2022	Fit	NA	Fit /) NA	
	1351	MR. AKBAR M MOKASHE	54	М	-	NA	NA	1		02/09/2022	Fit	ŅA .	Fit /	NA	
+	-1834	MR. DAVAL M SHAIKH	52		- ¹⁰ -1	NA	NA	-		02/09/2022	Fit	NA	Fit	NA	
+	2300	MR. VITTHAL D RANDIVE	37	M	-	NA	NA		<u>a</u>	.02/09/2022	Fit	NA	TPA	- KNA	
+	0968	MR. RAJENDRA D KORADE	53	M	-	NA	NA		-	02/09/2022	Fit	NA	441	NA)	
	1894	MR. GANGADHAR AADNANE	47	M	-	NA	NA			02/09/2022	Fit	Pr. /	RUND	A. MANI	2014 1219 1220
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Consultant Industrial Health Physician

Certifying Surgeon DR.ARVIND MANE

MBBS DPH AFIH.(Mumbai)

HEALTH REGISTER

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

Certifying Surgeon

DR.ARVIND MANE

MBBS DPH AFIH. (Mumbai)

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

		•	I												
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 Sionature with gate	certifying surgeon.
58	0915	MR. POPAT D KAMBLE	57	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
59	7019	MR. BALASO B KOLAJ	36	M	-	NA	NA ·		•	02/09/2022	Fit	NA	Fit	NA	
60	7026	MR. ABHIJIT B PATIL	27	M		NA	NA			02/09/2022	Fit	NA	Fit	ŇA	
61	1367	MR. KIRAN I BHARMAL	47	M	· <u>1</u> ·	NA .	NA '	+		02/09/2022	Fit	NA	Fit	NA	
62	1071	MR. KUBER S GOURAI	54	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	18
63	0994	MR. LAXMAN S LALI	51	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
64	0936	MR. SANJAY B JADHAV	55	M		NA	NA		53	02/09/2022	Fit	NA	Fit	NA	
65	1692	MR. MUSTAK A NAYANI	51	M		NA	NA			02/09/2022	Fit	NA	- Fit	NA	
66	7001	MR. PRAVIN P PATIL	29	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
67	1823	MR. ARVIND P KAKADE	52	M	i i	NA	NA :			02/09/2022	Fit	NA	Fit	NA	
68	1726	MR. SUNIL B AITWADE	43	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
69	7531	MR. S M MHETRE	24	M	•	NA	NA			02/09/2022	Fit	NA	Fit	NA	it.
70	2247	MR. ANIL D SUTAR	33	M	· .	· NA	NA		*:	02/09/2022	Fit .	NA	Fit	NA	
71	6009	MR. PAVANKUMAR B PATIL	31	M	7	NA	NA			02/09/2022	Fit	NA	Fit	A A	
72	1819	MR. SHANKAR S GAWADE	45	M	12	NA	NA			02/09/2022	Fit	NA	Fit		1
73	7542	MR. ANURAGH A PATIL	21	M	h4	NA	NA			02/09/2022	Fit	NA	Fit	INA	
74	1978	MR. FIROJ M KALAWANT	36	M		NA	NA .	• .	نې ^د	02/09/2022	Fit	NA	FIN	CNA	
75	0951	MR. MAHADEV S PATIL	59	M		NA	NA		÷.,	02/09/2022	Fit	NA	Fit	C/W/	
76	7514	MR. SAJID B JAMADAR	27	M		NA	NA			02/09/2022	Fit	N Dr.	ARVIND	A. MANE	a 9 1)
			F				1	6				MMC	REGD. NO.	8.F.I.H. (MUMBAI 2010/10/3176	5
	Page 4 d)f 66					<u> </u>			· ·	1	GOVT. O	F INDIA-DGFAS	LI REGD. NO02 I Health Phyric	388

HEALTH REGISTER

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

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

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wor	Reason for leaving Transfer of discharg	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work,state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness or suspention issued to worker	Signature with gate - certifying surgeon.
0637	MR. AJIJ G DALWADE	49	M	-	NA	NA	1		02/09/2022	Fit	NA	Fit	NA	
6011	MR. DADASO S KUMBHAR	36	м	- *	NA	NA			02/09/2022	Fit	NA.	Fit	NA	
1665	MR. ABHIJEET S KUMBHAR	42	м	· A	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7005	MR. NITIN N SHINDE	28	м		· NA	NA	1 1	12	02/09/2022	Fit	NA	Fit	NA	
7010	MR. UTTAM K KHOT	32	M	•	NA	NA		5	02/09/2022	Fit	NA	Fit	NA	
1896	MR. SANJAY G KAMBLE	58	м		NA	NA			02/09/2022	Fit	NA	. Fit	NA	
1437	MR. SADIK I MUJAWAR	53	М	r	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2208	MR. SWAPANIL V KHOT	29	м	1 -	NA	NA			02/09/2022	Fit	NA	Fit	NA .	
1091	MR. BALWANT A PATIL	56	м	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2027	MR. SANJAY P KURALE	36	М	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7023	MR. R R FIRAGANNAVAR	31	м	• Š.	NA	NA	1		02/09/2022	Fit	NA	Fit	NA	
6042	MR. SURAJ D PATIL	30	М	-	NA	NA ·			02/09/2022	Fit	NA	Fit	NA	
7139	MR. AKBAR B FARID	29	М	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1454	MR. ARUN A MALAGE	47	М	-	NA	NA			02/09/2022	Fit	NA	Fit	7 NA/	\land
. 0998	MR. KUNTINATH VANDURE	51	м		NA	NA	1		02/09/2022	Fit	NA	Fit.	NA	
2132	MR. RAMESH A BANNE	35	М		NA	NA ·	3		02/09/2022	Fit	NA	Fit	INA	
1832	MR. AMAR B PATIL	45	М	• •	NA	NA			02/09/2022-	Fit	NA	Fit	NA	
1444	MR. PRAKASH M SHENAVI	49	м	•	NA	NA	. da		02/09/2022	Fit -	NA	C FII C	NA	
2294	MR. SACHIN A KAMBLE	33	м	-	NA	NA	1		02/09/2022	Fit	NØF.	ARVIND	A. MAN	
			T				1.0			4	MMC	REGD. NOL:	ELH. (MUMB) 2010/10/31 LI REGD. 1 00	76
Page 5 d	of 66				8 94.17	÷				18	Consult	ant Industria	Health Phys	ician

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

HEALTH REGISTER

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

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

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

Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other woi	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 suppartion issued to worker	Signature with gate certifying surgeon.
7040	MR. SULEMAN Y DADIWALE	26	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7048	MR. SANTOSH PATIL	32	М	-	NA	NA	-		02/09/2022	Fit	NA	Fit	NA	
1655	MR. VINOD KHOT	42	М	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7509	MR PRASHANT KHATAVKAR	26	М	· · ·	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7498	MR. V D HANCHNALE	24	M	• " <u></u> .	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7154	MR. KASHINATH MUDHALE	23	М	•	NA	NA			02/09/2022	Fit	NA	Fit .	NA	
7140	MR. SHIVAJI S MUDHALE	26	М	- 1	NA	NA	. 5		02/09/2022	Fit	NA	Fit	NA	
1018	MR. BAPUSO B DHONGADE	53	М	-	NA	NA	1		02/09/2022	Fit	NA	Fit	NA	
1240	MR. ARUN K PATIL	45	М	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2170	MR. SURAJ SHIRDHONE	29	М	• .]	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2285	MR. VAIBHAV A MANE	26	м	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7469	MR CHANDRAKANT PUJARI	25	M	- 1	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0607	MR. B R KHOT	59		- 11	NA	NA	-		02/09/2022	Fit	NA	Fit	NA	
7365	MR. PRASAD V BADIGER	26	М	•	NA	NA	1		02/09/2022	Fit	NA	Fit	// NA	A
7134	MR. PAVANKUMAR A HEGADE		М	- 11	NA	NA	1 1		02/09/2022	Fit	NA	Fit	NA	Ľ
7073	MR. TUSHAR PATIL		M	<u>-</u> <u>-</u>	NA	NA	1		02/09/2022	Fit	NA	Fit /	NA	
	MR. AVINASH M VASWADE		M		NA	NA			02/09/2022	Fit	NA	Fit .	C NA	D
7146	MR. B A MAYAPPANAWAR		M		NA	NA			02/09/2022	Fit	NA	Pit U	NA	
1652	2 · · · ·		M.		NA	NA		1	02/09/2022	Fit	NAD	ARVIN	DANNA	NE
2187	MR. RAJENDRA S NIRMALE	- 44	IVI .	*					. •		MM	M.B.B.S., D.F. C REGD. N	H.A.F.I.H. (MUI): 2010/10/3 ASLI REGD. NO	MBAI) 3176

HEALTH REGISTER

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

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

.0V1 .1G	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.
5	7052	MR. GOVIND M LAWATE	28	M		NA	NA '		đ.	02/09/2022	Fit	NA	Fit	NA	
6	2091	MR. BHARAT R PATIL	\$2	M		NA	NA			02/09/2022	Fit	NA	Fit	• NA	
7	7173	MR. BAJIRAO B PATIL	48	M	-	NA	NA .			02/09/2022	Fit	NA	Fit	NA	
8	7383	MR. MUSTAFA A MUJAWAR	23	M	•	NA	NA			02/09/2022	Fit	NA	Fit	. NA	
9	2217	MR. AVINASH J DONGALE	35	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0	7127	MR. SURAJ S R	30	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
1	7403	MR. SOURABH R CHOUGULE	24	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
2	2275	MR. YASHWANT K JADHAV	42	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
3	7487	MR. RUSHIKESH S GAJARE	22	M	•	NA	NA			02/09/2022	Fit	NA	Fit	NA	
4	1228	MR. SHASHIKANT A SHINDE	45	M	- ,	NA	NA			02/09/2022	Fit	NA	Fit	NÁ	
5	1710	MR. SANDEEP N MAGDUM	4	M	• j	NA	NA			02/09/2022	Fit	NA	Fit	NA	
6	2145	MR. ANIL N MAGDUM	30	M	-1	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7	1922	MR. SADASHIV S PATIL	45	M	-	NA	NA			02/09/2022	Fit	NA	· Fit	NA	÷
8	1170	MR. RAVINDRA B PATIL	58	M	-	NA	NA			02/09/2022	Fit	NA	Fit	17 NA /	
9	7131	MR. SUJIT S RANGOLI	.34	M	- 1	NA	NA			02/09/2022	Fit	NA	Fit (NA	1
0	0426	MR. ANIL B DESHPANDE	54	M	-	NA	NA i			02/09/2022	Fit	NA	Fit	NA	
1	1944	MR. AJIT'S MANE	4	M		NA	NA .			02/09/2022	Fit	NA	Fit .	C NA	
2	7172	MR. NANDKUMAR KAMBLE	46	M	- · ·	NA	NA			02/09/2022	Fit	NA	FirC	ANA)
3	7135	MR. SHAMRAO V DAVAR	53	M		NA	NA	1		.02/09/2022	Fit	NDr.	ARVIND	A. MAN	E
			T					3				MMC	I.B.B.S., D.P.A. REGD. NO. :	A.F.I.H. (MUMB 2010/10/317 I REG 3. NO0	AI) 76

Consultant Industrial Health Physician

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

HEALTH REGISTER

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

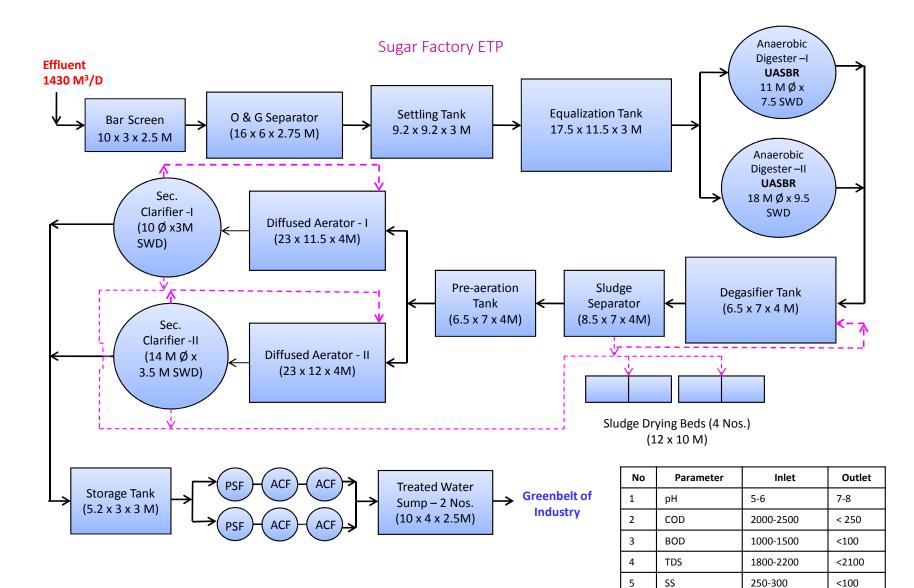
Certifying Surgeon DR.ARVIND MANE MBBS DPH AFIH.(Mumbai)

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

Ve

		<u></u>													
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.
134	7147	MR. NITIN S MITHARI	40	M	2.4 (m) 2.5 (m)	NA	NA			02/09/2022	Fit	NA	Fit	NA	
135	1790	MR. BAHUBALI M KESTE	12	M	-	NA	NA 💱			02/09/2022	Fit	NA	Fit	NA	- 15
136	0359	MR. SHRIKANT'S KHOT	54	M	n <mark>e</mark> ste	NA	NA			02/09/2022	Fit	NA	Fit	ŇA	
137	0609	MR. MARUTI M JADHAV	48	M	•	NA	NA b		at a	02/09/2022	Fit	NA	Fit	ŇA	8
138	2080	MR. SATISH B DANAGAR	84	.M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
139	0463	MR. DEVGONDA B MAGDUM	53	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
140	2292	MR. PRAKASH R KARADE	45	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
141	0643	MR. SANJAY T BHOSALE	53	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
142	1841	MR. M B SURYAWANSHI	8	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
143	7144	MR. PRAKASH N KAMBLE	\$2	M	2	NA	NA			02/09/2022	Fit .	NA	Fit	ŇA	
144	7136	MR. ANIL S KAMBLE	55	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
145	1533	MR. NABILAL B MUJAWAR	39	M	-	NA	NA			02/09/2022	Fit	NA	Fit	ŃA	
146	1800	MR. J B MADBHAVE	19	M	-	NA	NA !!	2	- C	02/09/2022	Fit	NA	Fit	NA /	
147	1458	MR. SANJAY A MURABATTE	\$4	M	•	NA	NA			02/09/2022	Fit	NA	Fit	/7 NA /	
148	0656	MR. BHIMRAO D KHOT	49	M	-	NA	NA			02/09/2022	Fit	NA	Fit	/ NA	/
149	1387	MR. RAJKUMAR S MAGDUM	\$4	M		NA	NA			02/09/2022	Fit	NA	Fit	L MA	
150	1600	MR. MAHAVIR T PATIL	59	M		NA	NA .			02/09/2022	Fit	NA	Fit	NA	
151	1718	MR. SANJAY A CHAVARE	45	M	· •	NA	NA			02/09/2022	Fit	NA	Grin (NA	
152	0052	MR. VISHWAS L PATIL	56	M		NA	NA .			02/09/2022	Fit	NØr. i	ARVIND	A. NAN	
. 19 	0.								41			MMC	REGD. NO.	.F.I.H. (MUMB) 2010/10/31	6
. 8 4	Page 8 c	ıf 66				, · ·				- - -		GOVT. OF Consulta	INDIA-DGFAS	LI REGD. NO0 I Health Phys	ician "

Annexure – III Photographs of ETP & STP



All parameters except pH are in mg/lit.

Photographs of Sugar Factory ETP



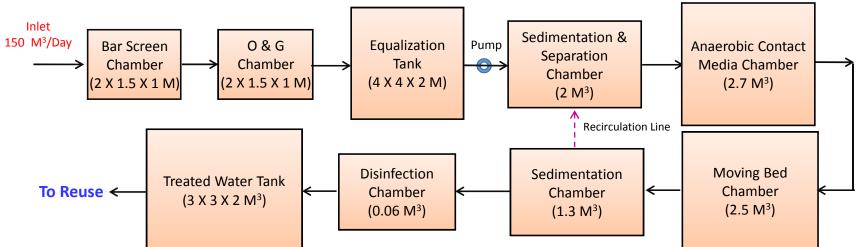






Photographs of Sugar Factory ETP

Sewage Treatment Plant



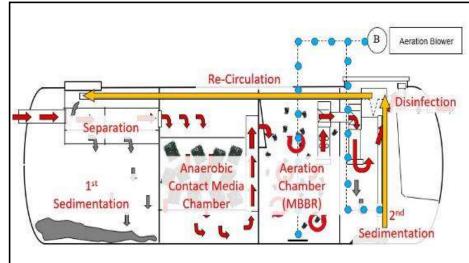
No	Parameter	Unit	Inlet	Outlet
1	рН		6.0 – 8.5	6.0 - 8.5
2	COD	mg/lit	400 – 500	< 50
3	BOD	mg/lit	250 – 300	< 10
4	TSS	mg/lit	150 - 250	< 30
5	0 & G	mg/lit	20 - 30	< 10

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



Johkasou STP Treatment Process





Unit	мос	•		Fechnological Frame Work
Separation & Sedimentation Chamber	FRP	Suspended Solids (SS) are separated.	1	
Anaerobic Chamber	FRP	Organic matters are anaerobically decomposed.	•	Technology approved by National Jal Jeevan
Moving Bed Chamber	FRP	BOD content reduced by continuous aeration.		Mission.
Sedimentation Chamber	FRP	SS are settled and clear treated water is obtained.	•	Technology Approved by
Disinfection Chamber	FRP	Treated Water is disinfected by Disinfection agent.		CII (Confederation of Indian Industry)
Sludge Re-circulation Arrangement	-	Sludge from 2 nd Sedimentation Chamber is recirculated to the 1 st Sedimentation Chamber.	•	No COVID-19 Trace observed in outlet water

Photographs of STP



Annexure – IV Photographs of OCEMS (Stack & ETP)

Online Monitoring System

Boiler Ash Handling System

OCMS for Sugar Factory ETP

OCMS (Sensor)





ESP for 20 & 90 TPH Boiler Capacity



ESP for 75 TPH Boiler Capacity





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	TEST R	EPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23	/11/785	Report Date	30/11/2022	/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/785		Report Date	30/11/2022		
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana	wahar Shetkari ngale, Dist: Kol	Sahakari Sakhar I hapur (Maharash	Karkhana Ltd., tra)		
	Ambient Air S	ample Details				
Туре	Samplin	g Location		Sampling	done by	
Ambient Air	Near N	/lain Gate		GESI	EC	
	Sampli	ng Time				
Start Time	Sto	p Time		Total	Hrs.	
02:00 P.M.	03:00 P.M.			60 Min		
	Metrological Data/Env	ironmental Co	nditions			
Ambient Temperature °C	30.0	Wet Bulb Temperature °C		21.0		
Dry Bulb Temperature °C	30.0	Relative Humidity % RH		44.4		
Date of Sampling	Sample Receipt Date	Sample Receipt Date Analysis Start Date		Analysis End Da		
24/11/2022	25/11/2022	26/1	1/2022	30/11/2022		
Name of Instrument	High Volume Sampler	Date Of	Calibration	19/10/	2022	
Calibration Certificate No.	SSEC/FF/1528	Due Date	of Calibration	18/10/	2023	
Parameters	Method		Unit	NAAQ Standards	Result	
Particulate Matter (PM10)	IS:5182 (PART 4):	2019	µg/cum	100.00	61.33	
Particulate Matter (PM _{2.5})	IS:5182 (PART 24)		μg/cum	60.00	18.25	
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):	2017	μg/cum	80.00	17.74	
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018		μg/cum	80.00	21.40	



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- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024. 6.

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Consultant PV

Engineers

	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/11/786	Report Date	30/11/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23	ESEC/PRO/AAQM/2022-23/11/786		30/11/2022	
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	ample Details			
Туре	Samplin	g Location		Sampling	done by
Ambient Air	Nea	ar ETP		GESI	EC
	Samplir	ng Time			
Start Time	Stop	Time		Total	Hrs.
02:10 P.M.	03:1	0 P.M.		60 Min	
	Metrological Data/Env	ironmental Co	onditions		
Ambient Temperature °C	30.0	Wet Bulb Temperature °C		21.0	
Dry Bulb Temperature °C	30.0	Relative Humidity % RH		44.4	
Date of Sampling	Sample Receipt Date	Analys	is Start Date	Date Analysis End	
24/11/2022	25/11/2022	26/	11/2022	30/11/2022	
Name of Instrument	Respirable Dust Sampler	able Dust Sampler Date Of Calibration		19/10/	2022
Calibration Certificate No.	SSEC/FF/1525	Due Date	of Calibration	18/10/	and the contract of the second s
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2	2019	μg/cum	100.00	59.36
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):		µg/cum	60.00	17.01
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	2017	μg/cum	80.00	14.87
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	2018	μg/cum	80.00	19.09

/ PCI – I, New Delhi, the 18th November 2009.

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



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	TEST R	EDORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/			2014 Marcan	
Sample ID: -	GESEC/PRO/AAQM/2022-23/11/787		Report Date	30/11/2022	
Sample ID: -	GESEC/PRO/AAQIVI/2022-25/	11/707			
Name & Address of the	M/s. Kallappanna Awade Jaw				
Customer	Hupari-Yalgud, Tal: Hatkana	ngale, Dist: Kolha	apur (Maharash	tra)	
	Ambient Air S	ample Details			
Туре		g Location		Sampling	done by
Ambient Air		ane Yard		GES	
Ambient An	Samplin	ere men internation		013	
Start Time		Time		Total	Hrs.
02:25 P.M.		5 P.M.		60 N	
02.25 F.IVI.	Metrological Data/Env		itions		
Ambient Temperature ^{oC}	29.0	Wet Bulb Temperature ^{oC}		19	
Dry Bulb Temperature ^{oC}	29.0	Relative Humidity % RH		48.7	
Date of Sampling	Sample Receipt Date	Analysis S	tart Date	Analysis E	nd Date
24/11/2022	25/11/2022	26/11/		30/11/2022	
2-1/22/2022					
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration		19/10/2022	
Calibration Certificate No.	SSEC/FF/1526	Due Date of	Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2	019	µg/cum	100.00	63.86
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):	2019	μg/cum	60.00	20.76
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	017	μg/cum	80.00	18.04
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2	018	μg/cum	80.00	23.59

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	TEST RÉPORT		Benert			
Test Report No	GESEC/PRO/ST/2022-23/11/7	Report Date	3	80/11/2022		
Sample ID -	GESEC/PRO/ST/2022-23/11/788					
					1+d	
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanan	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)				
	Sample Deta					
Sample collection Date	Sample receipt Date	Analysis start	Date		sis complete Date	
24/11/2022	25/11/2022	26/11/202	22		30/11/2022	
24/11/2022	Instrument De	tails				
	Stack Monitoring Kit	Date Of Calib	ration	17/10/2022		
Name Of Instrument		Due Date of Ca	Due Date of Calibration		16/10/2023	
Calibration Certificate No.	SEC/TH/57					
	Stack Detai			6.0	mpling done by	
Stack No/ID		Stack Attached to		GESEC		
01	Stack 1 (S	0+20 TPH)	10			
Shape	Round	Fuel Use	ed	Bagasse 5.00		
Diameter/ Dimensions (m)	4.73	Pressur	е	5.00		
Height (m)		75			0.47	
Temperature (^o C)	125	Velocity (8.47		
Gas Volume (Nm ³ /Hr)		401649.	21			
				nit	Result	
Parameters	Method	Unit		50	42.36	
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³	1.	50	18.45	
Sulphur Dioxide (SO ₂)		mg/Nm ³		-		
and the second second second	IS 11255 (Part 2) 2019	Kg/day	g/day		177.85	

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

HI ENVIROS P Ltd. The consultant Pri

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END OF REPORT

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	TEST REPORT		<u> </u>	-	
Test Report No	GESEC/PRO/ST/2022-23/11/7	89	Report Date	30	/11/2022
Sample ID -	GESEC/PRO/ST/2022-23/11/7	89			
•					
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanan	ahar Shetkari Sah gale, Dist: Kolhap	akari Sakhar ur (Maharas	Karkhana htra)	Ltd.,
	Sample Detai				lata Date
Sample collection Date	Sample receipt Date	Analysis star	t Date		s complete Date
24/11/2022	25/11/2022	26/11/20)22	30	0/11/2022
24/11/2022	Instrument Det	ails			
	Stack Monitoring Kit	Date Of Cali	bration	17/10/2022	
Name Of Instrument Calibration Certificate No.	SEC/TH/57	Due Date of Calibration		16/10/2023	
Calibration Certificate rise	Stack Detail	s			
		tached to		Sam	pling done by
Stack No/ID		(75 TPH)		GESEC	
01		Fuel Us	bo	Bagasse	
Shape	Round	Pressu		4.00	
Diameter/ Dimensions (m)	2.5		lie		
Height (m)		72	(()		7.53
Temperature (^o C)	120	Velocity			7.50
Gas Volume (Nm ³ /Hr)		100993.	84		
	1		11	mit	Result
Parameters	Method	Unit		50	39.86
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³			17.41
Sulphur Dioxide (SO ₂)		mg/Nm ³		-	
Suprice Distance (Seat	IS 11255 (Part 2) 2019	Kg/day		- 42.20	

- Remarks-
 - Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/^{NM3}. >
 - Maharashtra Pollution Control Board (MPCB) Limits: SO2: As per consent. >

PUNE PUNE Enginee P. ****END OF REPORT

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

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	TEST REPO			
Test Report No: -	GESEC/PRO/ANLM/2022-23		Report Date	30/11/2022
Sample ID: -	GESEC/PRO/ANLM/2022-23/11/790			
Sample 10.			to the Kerkhana l	td
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkan			
	Ambient Noise S	ample Details		
Туре	Ambient Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
		Analysis	Start Date	Analysis End Date
Date of Sampling	Sample Receipt Date	Analysis Start Date 26/11/2022		30/11/2022
24/11/2022	25/11/2022	26/1.		
		Data Of (Calibration	17/10/2022
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration Due Date of Calibration		16/10/2023
Calibration Certificate No.	SSEC/ME/266	Due Date d	Calibration	
	Unit	Average Noise	e Level Readings	CPCB Standards dB(A)
Test Location	Onic	Day (04:00 P.M.)	Night (10:30 P.M.)	
	dB(A)	60.3	57.1	- I Building
Near Main Gate	dB(A)	68.7	62.4	During Day time 75 dB (A)
Near ETP	dB(A)	67.4	62.3	During Night time
Near Bagasse Section	dB(A)	65.9	61.8	70 dB(A)
Near Sugar Godown		66.2	63.0	
Near Cane Yard	dB(A)	00.2		

Remark

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

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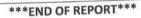
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	TEST R				
Test Report No: -	GESEC/PRO/WNLM/20	22-23/11/791	Report Date	30/11/2022	
Sample ID: -	GESEC/PRO/WNLM/20	22-23/11/791	A		
Sample 10.					
Name & Address of the Customer	M/s. Kallappanna Awa Hupari-Yalgud, Tal: Ha	a Ltd.,			
	Work Zone No	oise Sample Details			
Truce					
Type Sampling done by	Work Zone Noise GESEC				
Standard method	As Per IS: 9989:2020				
Standard method				Analysis End Date	
Date of Sampling	Date of Sampling Sample Receipt Date		Analysis Start Date		
24/11/2022	25/11/2022	26/13	26/11/2022		
			a libertian	07/10/2022	
Name of Instrument	Sound Level Mete	enter constraint	Date of Calibration		
Calibration Certificate No.	SSEC/ME/259	Due Date	Due Date of Calibration		
Cumpretter		Average Noise	e Level Readings	The Factories Ac	
Test Location	Unit	Day (04:40 P.M.)	Night (11:30 P.M.)	1948, standards	
	dB(A)	83.1	80.4		
Centrifugal Section	dB(A)	88.6	84.5		
Turbine Section	dB(A)	85.0	82.2	≤ 90	
Boiler Section	dB(A)	87.3	82.7		
Mill Section	dB(A)	86.4	83.0		
Pan Section					
Remark- > The Factories Act, 1948, has	proscribed 90 dB (A) as an	upper limit of noise leve	l for 8 hours exposure.		
The Factories Act, 1948, has	Eastorios Act 1948 Standard	ds.			
 All above results are within 	Paciones Act 1940 Standar	14 S			



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TE	ST REPORT			
Test Report No: GESEC/PRO/WW/2022-23/11/792	Report Date		30/11/2022	
Sample ID : GESEC/PRO/WW/2022-23/11/792	Sample De	etails	ETP Inlet	
Name & Address of the Customer:	Type of Sa	mple	Waste Water	
	Volume O	f Sample	1 Lit plastic bottle	
M/s. Kallappanna Awade Jawahar Shetkari Sahakari	Sample St	atus	Sealed	
Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Sample Co	ollected By	GESEC	
(Maharashtra)	Date of Sa Collection		24/11/2022	
	Sample Re	eceipt Date	25/11/2022 26/11/2022	
	Analysis st	tart Date		
	Analysis End Date			
	Analysis E	nd Date	30/11/2022	
Parameters	Analysis E Results	nd Date Unit	30/11/2022 Standard Method	
Parameters				
	Results	Unit	Standard Method	
рН	Results 3.00	Unit 	Standard Method APHA 4500 H+,B 23rd Edition.2017	
pH Suspended Solids (SS)	Results 3.00 141.79	Unit mg/lit	Standard Method APHA 4500 H+,B 23rd Edition.2017 APHA 2540 D 23 rd ED:2017	
pH Suspended Solids (SS) Total Dissolved Solids (TDS)	Results 3.00 141.79 3251.42	Unit mg/lit mg/lit	Standard Method APHA 4500 H+,B 23rd Edition.2017 APHA 2540 D 23 rd ED:2017 APHA 2540,C,23rd Edition, 2017	
pH Suspended Solids (SS) Total Dissolved Solids (TDS) Chemical Oxygen Demand (COD)	Results 3.00 141.79 3251.42 3012.98	Unit mg/lit mg/lit mg/lit	Standard Method APHA 4500 H+,B 23rd Edition.2017 APHA 2540 D 23 rd ED:2017 APHA 2540,C,23rd Edition, 2017 IS 3025 (Part 58) , 2019	
pH Suspended Solids (SS) Total Dissolved Solids (TDS) Chemical Oxygen Demand (COD) Biochemical Oxygen Demand (BOD)	Results 3.00 141.79 3251.42 3012.98 1497.20	Unit mg/lit mg/lit mg/lit mg/lit	Standard Method APHA 4500 H+,B 23rd Edition.2017 APHA 2540 D 23 rd ED:2017 APHA 2540,C,23rd Edition, 2017 IS 3025 (Part 58) , 2019 IS 3025 (Part 44), 2019	

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		20/11/2022
Test Report No: GESEC/PRO/WW/2022-23/11/793	Report Date	30/11/2022
Sample ID : GESEC/PRO/WW/2022-23/11/793	Sample Details	ETP Outlet
	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
Name & Address of the Customer:	Sample Collected By	GESEC
M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd.,	Date of Sample Collection	24/11/2022
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Sample Receipt Date	25/11/2022
(Maharashtra)	Analysis start Date	26/11/2022
	Analysis End Date	30/11/2022

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.25	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	18.62	100	mg/lit	APHA 2540 D 23rd ED:2017
Total Dissolved Solids (TDS)	1137.91	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	65.20	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	23.47	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	164.01	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	124.99	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

> BDL - Below Detectable Limit.

All parameters are within the MPCB limit. 2

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	TEST I	REPORT			
Test Report No: -	GESEC/PRO/WZM/2022-23/	/11/794			
Sample ID: -	GESEC/PRO/WZM/2022-23/11/794		Report Date	30/11/20	22
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana				
	WORKZONE AIR QUALIT	Y MONITORING	G RESULTS		
Туре	Samplir	ng Location		Sampling	g done by
Ambient Air		Section			SEC
		ng Time		01	
Start Time		p Time		Total Hrs.	
02:35 P.M.		35 P.M.			Min
	Metrological Data/Env	vironmental Co	nditions	00	
Ambient Temperature °C	32		emperature ^{oC}	23	
Dry Bulb Temperature °C	32		umidity % RH		
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analusia	End Date
24/11/2022	25/11/2022		1/2022		End Date /2022
Name of Instrument	Handy Sampler	Date of	Calibration	19/10	/2022
Calibration Certificate No.	SSEC/FF/1517		of Calibration	18/10	and the second se
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2	2019	mg/m ³	10	0.346
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2		mg/m ³	5	0.008
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2		mg/m ³	6	0.012

Note:

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

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	TEST	REPORT			
Test Report No: -	GESEC/PRO/WZM/2022-23/	11/795			
Sample ID: -	GESEC/PRO/WZM/2022-23/11/795		Report Date	30/11/202	.2
			-		
Name & Address of the	M/s. Kallappanna Awade Jay	wahar Shetkai	ri Sahakari Sakhar K	arkhana Ltd.,	
Customer	Hupari-Yalgud, Tal: Hatkana	ngale, Dist: Ko	olhapur (Maharash	tra)	
	WORKZONE AIR QUALIT	Y MONITORI	NG RESULTS		
Туре	Samplin	g Location		Sampling w	as done by
Ambient Air	Suga	r House		GES	
	Sampli	ng Time			2255-210
Start Time	Sto	Time		Total	Hrs.
02:45 P.M.	03:4	5 P.M.		60 Min	
	Metrological Data/En	/ironmental C	onditions		
Ambient Temperature °C	32		Temperature ^{oC}	23	3
Dry Bulb Temperature °C	32	Relative Humidity % RH		y % RH 46	
Data de					
Date of Sampling	Sample Receipt Date		Analysis Start Date Analysis End		nd Date
24/11/2022	25/11/2022	26/	11/2022	30/11/2022	
4	Alling and Physics Descriptions				
Name Of Instrument	Personal Sampler		f Calibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1519	Due Date	of Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
articulate Matter (PM)	IS:5182 (PART 4):2	019	mg/m ³	10	0.362
ulphur Dioxide (SO2)	IS:5182 (PART 2):2	017	mg/m ³	5	0.007
xides of Nitrogen(NO _x)	IS:5182 (PART 6):2	018	mg/m ³	6	0.011

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

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 Samples will be retained for a period of reuse (2) days after completion of control of the second seco
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	TEST R	EPORT	2015, ISO 45001 : 2018	*********************************	*****************	
Test Report No: -	GESEC/PRO/AAQM/2022-23		and control of	co de traverse a re		
Sample ID: -	GESEC/PRO/AAQM/2022-23		Report Date	03/01/2023		
Sample ID: -	GESEC/PRO/AAQWI/2022-25	/12/1113				
Name & Address of the	M/s. Kallappanna Awade Jav	vahar Shetkari	i Sahakari Sakhar K	arkhana Ltd		
Customer	Hupari-Yalgud, Tal: Hatkana					
		inguic/ District				
	Ambient Air S	ample Details				
Туре	Samplin	g Location	_	Sampling	done by	
Ambient Air	Near N	Near Main Gate				
	Samplir	ng Time				
Start Time		Time		Total	Hrs.	
04:00 P.M.		0 P.M.		60 M	lin	
	Metrological Data/Env		nditions			
Ambient Temperature °C	29.0	1	emperature °C	17.	0	
Dry Bulb Temperature °C	29.0		lumidity % RH	28.3		
Date of Sampling	Sample Receipt Date	Analysi	s Start Date	Analysis E	nd Date	
28/12/2022	29/12/2022		12/2022	03/01/2023		
20/12/2022	23/12/2022	50/12/2022		00,01,1010		
Name of Instrument	High Volume Sampler	Date Of	Calibration	19/10/	2022	
Calibration Certificate No.	SSEC/FF/1528	Due Date	of Calibration	18/10/2023		
and the second second						
Parameters	Method		Unit	NAAQ Standards	Result	
Particulate Matter (PM10)	IS:5182 (PART 4):2	2019	μg/cum	100.00	63.86	
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):	2019	μg/cum	60.00	20.09	
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	2017	μg/cum	80.00	18.02	
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018 µg/cum		ug/cum	80.00	24.11	

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Test Report No: -	GESEC/PRO/AAQM/2022-23/	12/1114	Downet Date	Report Date 03/01/2023		
Sample ID: -	GESEC/PRO/AAQM/2022-23/	12/1114	Report Date	03/01/2023		
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanar					
	Ambient Air Sa	ample Details				
Туре	Sampling	, Location	_	Sampling	done by	
Ambient Air	Nea	Near ETP				
	Samplin	g Time				
Start Time	Stop	Stop Time				
04:10 P.M.	05:10 P.M.			60 N	1in	
	Metrological Data/Envi	ronmental Co	nditions			
Ambient Temperature °C	29.0	Wet Bulb Temperature °C			0	
Dry Bulb Temperature °C	29.0	Relative H	umidity % RH	28.3		
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date	
28/12/2022	29/12/2022	30/1	12/2022	03/01/2023		
Name of Instrument	Repairable Dust Sampler	Date Of	Calibration	19/10/	2022	
Calibration Certificate No.	SSEC/FF/1525		of Calibration	18/10/2023		
Parameters	Method	Method		NAAQ Standards	Result	
Particulate Matter (PM10)	IS:5182 (PART 4):2	019	µg/cum	100.00	60.23	
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):2	2019	μg/cum	60.00	18.71	
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	017	µg/cum	80.00	15.74	
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	018	μg/cum	80.00	19.86	

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	TEST R	EPORT				
Test Report No: -	GESEC/PRO/AAQM/2022-23	/12/1115	Demant Date	02/01/2022		
Sample ID: -	GESEC/PRO/AAQM/2022-23	/12/1115	Report Date	03/01/2023		
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana					
	Ambient Air S	ample Details				
Туре	Samplin	Sampling Location				
Ambient Air	Near C	ane Yard		GES	EC	
-	Samplin	g Time				
Start Time		Stop Time				
04:20 P.M.	05:20 P.M.			60 Min		
	Metrological Data/Env	ironmental Con	ditions			
Ambient Temperature °C	28.0	Wet Bulb Te	emperature ^{oc}	19		
Dry Bulb Temperature ^{oC}	28.0	Relative Hu	imidity % RH	31.1		
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis E	nd Date	
28/12/2022	29/12/2022		2/2022	03/01/2023		
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration		19/10/2022		
Calibration Certificate No.	SSEC/FF/1526	Due Date o	f Calibration	18/10/2023		
Parameters	Method	Method		NAAQ Standards	Result	
Particulate Matter (PM10)	IS:5182 (PART 4):2	019	μg/cum	100.00	64.12	
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):	2019	μg/cum	60.00	21.16	
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	017	μg/cum	80.00	16.74	
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	018	µg/cum	80.00	21.85	

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	TEST REPOR	Г		
Test Report No	GESEC/PRO/AAQM/2022-23/	12/1116	Report Date	03/01/2023
Sample ID -	GESEC/PRO/AAQM/2022-23/			
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanan	ahar Shetkari Sa gale, Dist: Kolha	hakari Sakhar Karl pur (Maharashtra)	khana Ltd.,
	Sample Deta	ils		
Sample collection Date	Sample receipt Date	Analysis complete Date		
28/12/2022	29/12/2022 30/12/2022			03/01/2023
	Instrument De	tails		
Name Of Instrument	Stack Monitoring Kit Date Of Calibration			17/10/2022
Calibration Certificate No.	SEC/TH/57 Due Date of Calibration			16/10/2023
	Stack Detail	s		
Stack No/ID	Stack A	ttached to		Sampling done by
01	Stack 1	90+20 TPH)		GESEC
Shape	Round Fuel Used			Bagasse
Diameter/ Dimensions (m)	4.73	Pres	sure	4.00
Height (m)		75		
Temperature (^o C)	130	Velocit	ty (m/s)	7.62
Gas Volume (Nm ³ /Hr)		357010).44	
		Unit	Limit	Result
Parameters	Method	mg/Nm ³	150	38.63
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019			16.87
Sulphur Dioxide (SO2)	IS 11255 (Part 2) 2019	mg/Nm ³	-	
		Kg/day -		144.55

Maharashtra Pollution Control Board (MPCB) Limits: SO2: As per consent. P

GREEN ENVIR 105. ***END OF REPOR 5 d Consultant PV

Flandin Mr. Vinod Hande

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	TEST REPOR	Г		5 - S	5
Test Report No	GESEC/PRO/ST/2022-23/12/	Report Date	03,	/01/2023	
Sample ID -	GESEC/PRO/ST/2022-23/12/	1117			
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana	vahar Shetkari Sah ngale, Dist: Kolhap	akari Sakhar ur (Maharas	Karkhana I htra)	.td.,
	Sample Deta	ils			
Sample collection Date	Sample receipt Date	Analysis star	t Date	Analysis	complete Dat
28/12/2022	29/12/2022 30/12/2022			03,	/01/2023
	Instrument De	tails			
Name Of Instrument	Stack Monitoring Kit	g Kit Date Of Calibration		17/10/2022	
Calibration Certificate No.	SEC/TH/57 Due Date of Calibration			16/10/2023	
	Stack Detail	s			
Stack No/ID	Stack At	tached to		Samp	ling done by
01	Stack 2	(75 TPH)			GESEC
Shape	Round	Fuel Use	ed	E	Bagasse
Diameter/ Dimensions (m)	2.5	Pressur	'e	3.00	
Height (m)		72			
Temperature (^o C)	125	Velocity (I	m/s)		6.56
Gas Volume (Nm ³ /Hr)		86912.11	1		
			Lim		Result
Parameters	Method	Unit	0.5102/10		43.13
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³	15	0	
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/Nm ³	-		19.50
	13 11235 (1 817 2) 2015	Kg/day	Kg/day -		40.67

Maharashtra Pollution Control Board (MPCB) Limits: SO2: As per consent.

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12	TEST REPO	RT		1. C	
Test Report No: -	GESEC/PRO/ANLM/2022-23	3/12/1118	Report Date	03/01/2023	
Sample ID: -	GESEC/PRO/ANLM/2022-23	3/12/1118	Report Date	05/01/2025	
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkan	Ltd.,			
	Ambient Noise Sa	mple Details			
Туре	Ambient Noise				
Sampling done by	GESEC				
Standard method	As Per IS: 9989:2020				
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date	
28/12/2022	29/12/2022	30/12/2022		03/01/2023	
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration		17/10/2022	
Calibration Certificate No.	SSEC/ME/266	Due Date o	16/10/2023		
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)	
		Day (05:45 P.M.)	Night (11:00 P.M.)		
Near Main Gate	dB(A)	61.7	60.4		
Near ETP	dB(A)	65.3	64.2	During Day time =	
Near Bagasse Section	dB(A)	70.2	66.3	75 dB (A) During Night time=	
Near Sugar Godown	dB(A)	68.9	64.7	70 dB(A)	
Near Cane Yard	dB(A)	72.3	68.0		
Remark-					

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

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	TEST REPORT			
Test Report No: -	GESEC/PRO/WNLM/2022-23/12/1119	Report Date	03/01/2023	
Sample ID: -	GESEC/PRO/WNLM/2022-23/12/1119	Report Date	00,01/2020	
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Hupari-Yalgud, Tal: Hatkanangale, Dist: Kol	Sahakari Sakhar Karkha hapur (Maharashtra)	na Ltd.,	

	Work Zone Noise S	ample Details		
Туре	Work Zone Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date	
28/12/2022	29/12/2022	30/12/2022	03/01/2023	
			07/10/2022	
Name of Instrument	Sound Level Meter	Date of Calibration	07/10/2022	
		Due Date of Calibration	06/10/2023	

Linit	Average Noise	The Factories Act 1948,	
Onit	Day (06:20 P.M.)	Night (11:40 P.M.)	standards
dB(A)	86.9	84.1	
dB(A)	89.0	87.2	
dB(A)	87.2	85.7	≤ 90
dB(A)	88.5	84.1	
dB(A)	88.1	86.0	
	dB(A) dB(A) dB(A)	Dhit Day (06:20 P.M.) dB(A) 86.9 dB(A) 89.0 dB(A) 87.2 dB(A) 88.5	Day (06:20 P.M.) Night (11:40 P.M.) dB(A) 86.9 84.1 dB(A) 89.0 87.2 dB(A) 87.2 85.7 dB(A) 88.5 84.1

Remark-

> The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.

> All above results are within Factories Act 1948 Standards.

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	TEST REPORT		
Test Report No GESEC/PRO/WW/2022-23/12/1120	Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1120	Sample Det	ails	ETP Inlet
	Type of Sam	ple	Waste Water
Name & Address of the Customer:	Volume Of Sample		1 Lit plastic bottle
	Sample Stat	us	Sealed
M/s. Kallappanna Awade Jawahar Shetkari Sahakari	Sample Coll	ected By	GESEC
Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Date of Sam	ple Collection	28/12/2022
	Sample Rec	eipt Date	29/12/2022
	Analysis sta	rt Date	30/12/2022
	Analysis End Date		03/01/2023
Parameters	Results	Unit	Standard Method
pH	4.00		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	168.95	mg/lit	APHA 2540 D 23rd ED:2017
Total Dissolved Solids (TDS)	2895.61	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2541.97	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	1156.03	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	869.20	mg/lit	APHA 4500 CI- B,23rd Edition, 201
Sulphates as SO4	741.77	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	13.00	mg/lit	IS 3025 (Part 39), 2019

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		TEST REPORT		3
Test Report No: GESEC/PRO/WW/	2022-23/12/1121	Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1121		Sample Det	ails	ETP Outlet
		Type of Sam	ple	Waste Water
	Volume Of Sample		1 Lit plastic bottle	
Name & Address of the Customer:		Sample Stat	us	Sealed
M/s. Kallappanna Awade Jawahar Shetkari		Sample Collected By		GESEC
Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale	Dist: Kolhanur	Date of Sample Collection Sample Receipt Date Analysis start Date		n 28/12/2022
(Maharashtra)	, Dist. Konapar			29/12/2022
(manarashtra)				30/12/2022
		Analysis End	d Date	03/01/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
рН	7.53	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	17.40	100	mg/lit	APHA 2540 D 23rd ED:2017
Total Dissolved Solids (TDS)	1236 52	2100	mg/lit	APHA 2540 C 23rd Edition 2017

Total Dissolved Solids (TDS)	1236.52	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	63.11	250	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	24.09	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	186.52	600	mg/lit	APHA 4500 CI- B,23rd Edition, 2017
Sulphates as SO4	110.67	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL – Below Detectable Limit.

> All parameters are within the MPCB limit.

4NVIROSAR REEN PUNE Pvt. 0

22124 Mr. Vinod Hande (Technical Manager) **Reviewed & Authorized By**

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	TEST F	REPORT		
Test Report No: GESEC/PRO/WW/2022	2-23/12/1122	Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/	Sample De	tails	Factory STP Inlet	
14.1		Type of Sa	mple	Waste Water
-		Volume Of	Sample	1 Lit plastic bottle
Name & Address of the Customer:		Sample Sta	itus	Sealed
M/s. Kallappanna Awade Jawahar She	tkari	Sample Collected By Date of Sample Collection		GESEC 28/12/2022
Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dis	t: Kolhanur			
(Maharashtra)	. Komapur	Sample Receipt Date		29/12/2022
(manarasitra)		Analysis start Date		30/12/2022
		Analysis Er	nd Date	03/01/2023
Parameters	Results	Unit	Standard Method	
рН	6.10		APHA 4500 H+,B 23rd Edition.2017	
Suspended Solids (SS)	67.40	mg/lit	APHA 2540 D 23rd ED:2017	
Total Dissolved Solids (TDS)	1236.52	mg/lit	APHA 2540,C	,23rd Edition, 2017
Chemical Oxygen Demand (COD)	147.63	mg/lit	IS 3025 (Part 58), 2019

Biochemical Oxygen Demand (BOD)	60.49	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl ⁻	186.52	mg/lit	APHA 4500 CI- B,23rd Edition, 2017
Sulphates as SO4	110.67	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL – Below Detectable Limit.

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		TEST REPORT		
Test Report No: GESEC/PRO/WW/202	2-23/12/1123	Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23	/12/1123	Sample Det	ails	Factory STP Outlet
		Type of Sam	ple	Waste Water
		Volume Of S	Sample	1 Lit plastic bottle
Name & Address of the Customer:	Alicant	Sample Stat	us	Sealed
M/s. Kallappanna Awade Jawahar She Sahakari Sakhar Karkhana Ltd.,	etkari	Sample Coll	ected By	GESEC
Hupari-Yalgud, Tal: Hatkanangale, Dis	Date of Sam	ple Collection	28/12/2022	
(Maharashtra)	Sample Rec	eipt Date	29/12/2022 30/12/2022	
(manarashira)	Analysis sta	rt Date		
-	Analysis End	d Date	03/01/2023	
Parameters Results		MPCB LIMIT	Unit	Standard Method
рН	7.74	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.28	100	mg/lit	APHA 2540 D 23rd ED:2017
Total Dissolved Solids (TDS)	652.10	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	41.52	250	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	15.74	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl ⁻	95.63	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄	64.20	1000	mg/lit	APHA 3025 (Part 24) ;2019

Remark:

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

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

Parameters	Results	Unit	Standard Method
pH	6.47		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	55.20	mg/lit	APHA 2540 D 23rd ED:2017
Total Dissolved Solids (TDS)	1302.56	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	125.63	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	52.30	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	210.47	mg/lit	APHA 4500 CI- B,23rd Edition, 2017
Sulphates as SO4	145.96	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL – Below Detectable Limit.

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	TES	ST REPORT			
Test Report No: GESEC/PRO/WW/202	2-23/12/1125	Report Date			03/01/2023
Sample ID : GESEC/PRO/WW/2022-23	Sample Det	ails		Colony STP Outlet	
		Type of Sam	nple		Waste Water
		Volume Of S			1 Lit plastic bottle
Name & Address of the Customer:	Sample Stat	us		Sealed	
M/s. Kallappanna Awade Jawahar She	Sample Collected By Date of Sample Collection Sample Receipt Date Analysis start Date			GESEC	
Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dis				28/12/2022 29/12/2022 30/12/2022	
(Maharashtra)					
(Internet astrona)					
	Analysis End Date			03/01/2023	
Parameters	Results	MPCB LIMIT	Unit		Standard Method
рН	7.50	6.5-8.5	-	APH	IA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	17.63	100	mg/lit	-	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	596.20	2100	mg/lit	AP	HA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	45.11	250	mg/lit		IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	13.47	100	mg/lit		IS 3025 (Part 44), 2019
Chlorides as Cl ⁻	102.56	600	mg/lit	APH	A 4500 Cl- B,23rd Edition, 201
Sulphates as SO4 ~	78.01	1000	mg/lit		APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit		IS 3025 (Part 39), 2019

Remark:

BDL - Below Detectable Limit. >

All parameters are within the MPCB limit. Þ

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	REPORT			4 - 355
		Denot D. (02/04/2022	
GESEC/PRO/WZM/2022-23/	12/1260	Report Date	03/01/203	23
M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana	wahar Shetkari S Ingale, Dist: Koll	Sahakari Sakhar H hapur (Maharash	(arkhana Ltd., tra)	
WORKZONE AIR QUALIT	Y MONITORING	RESULTS		
			Sampling	done by
Sampli	ng Time		015	
			Total	Hrs.
Metrological Data/Env	ironmental Con	ditions	001	
30			22	
30	Relative Humidity % RH		49	
Sample Receipt Date	Analysis	Start Data	Ameliate P	
20/22/2022	50/12	4/2022	03/01/	2023
Handy Sampler	Date of C	alibration	19/10/	2022
SSEC/FF/1517			18/10/2023	
Method		Unit	NAAQ Standards	Result
	a substantia de la companya de la co	mg/m ³	10	0.412
IS:5182 (PART 2):2	.017	mg/m ³	5	0.009
		mg/m ³	6	0.013
	GESEC/PRO/WZM/2022-23/ GESEC/PRO/WZM/2022-23/ M/s. Kallappanna Awade Jan Hupari-Yalgud, Tal: Hatkana WORKZONE AIR QUALIT Samplin Pan Samplin S	GESEC/PRO/WZM/2022-23/12/1260 GESEC/PRO/WZM/2022-23/12/1260 M/s. Kallappanna Awade Jawahar Shetkari Hupari-Yalgud, Tal: Hatkanangale, Dist: Koll WORKZONE AIR QUALITY MONITORING Sampling Location Pan Section Sampling Time Stop Time 05:30 P.M. Metrological Data/Environmental Com 30 Wet Bulb Te 30 Relative Hu Sample Receipt Date Analysis 29/12/2022 30/12 Handy Sampler Date of C SSEC/FF/1517 Due Date of C SSEC/FF/1517 Due Date of C S15:5182 (PART 4):2019 IS:5182 (PART 2):2017	GESEC/PRO/WZM/2022-23/12/1260 Report Date GESEC/PRO/WZM/2022-23/12/1260 Report Date M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar H Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharash WORKZONE AIR QUALITY MONITORING RESULTS Sampling Location Pan Section Pan Section Sampling Time Sampling Time Stop Time 05:30 P.M. Metrological Data/Environmental Conditions 05:30 P.M. 30 Wet Bulb Temperature °C 30 Relative Humidity % RH Sample Receipt Date Analysis Start Date 29/12/2022 30/12/2022 Handy Sampler Date of Calibration SSEC/FF/1517 Due Date of Calibration S15:5182 (PART 4):2019 mg/m³ IS:5182 (PART 2):2017 mg/m³	GESEC/PRO/WZM/2022-23/12/1260Report Date03/01/202GESEC/PRO/WZM/2022-23/12/1260Report Date03/01/202M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)WORKZONE AIR QUALITY MONITORING RESULTSWORKZONE AIR QUALITY MONITORING RESULTSSampling LocationSampling TimeOf the Stop TimeTotal 05:30 P.M.GESEC/PRO/USLID TORING RESULTSSampling TimeTotal 05:30 P.M.GESECSampling TimeTotal 05:30 P.M.GO NMetrological Data/Environmental Conditions30Wet Bulb Temperature °C 22 3022 2230Relative Humidity % RH4929/12/202230/12/202203/01/Handy Sampler Date of Calibration19/10/MethodUnitNAAQ Standards15:5182 (PART 4):2019mg/m³10 mg/m³IS:5182 (PART 4):2017mg/m³

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Mr. Vinod Hande

(Technical Manager)

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GESEC/PRO/WZM/2022-23/				
	Demont Dut	00/04/		
GESEC/PRO/WZM/2022-23/12/1261		Report Date	03/01/2023	
M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana	wahar Shetkari angale, Dist: Kol	Sahakari Sakhar K hapur (Maharash	(arkhana Ltd., tra)	
WORKZONE AIR QUALIT		G RESULTS		
	the state of the s		Sampling wa	as donee by
		e	010	20
	Total	Hrs.		
05:4	40 P.M.			
Metrological Data/En	vironmental Co	nditions		
30			22	
30	Relative Humidity % RH		49	
Sample Receipt Date	Analysis	Start Date	Analysis	and Data
29/12/2022	30/12/2022		03/01/2023	
Perconal Sampler	Data of (0-111	10/10	
				and the second se
55EC/FF/1519	Due Date o	of Calibration	18/10/	2023
Method		Unit	NAAQ Standards	Result
IS:5182 (PART 4):2	2019	mg/m ³	10	0.341
IS:5182 (PART 2):2	2017	mg/m ³	5	0.008
			6	0.010
	Hupari-Yalgud, Tal: Hatkana WORKZONE AIR QUALI Sampli Suga Sampl Sto 05: Metrological Data/En 30 30 Sample Receipt Date 29/12/2022 Personal Sampler SSEC/FF/1519 Method IS:5182 (PART 4): IS:5182 (PART 2):	Hupari-Yalgud, Tal: Hatkanangale, Dist: Kol WORKZONE AIR QUALITY MONITORING Sampling Location Sugar House Sampling Time OS:40 P.M. Metrological Data/Environmental Co 30 Wet Bulb Tr 30 Relative Hu Sample Receipt Date Analysis 29/12/2022 30/1 Personal Sampler Date of Q SSEC/FF/1519 Due Date of Q SSEC/FF/1519 Date of Q SSEC/FF/1519 Date of Q SSEC/FF/1519 Date of Q SSEC/FF/1519 Method IS:5182 (PART 4):2019 IS:5182 (PART 2):2017	Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharash WORKZONE AIR QUALITY MONITORING RESULTS Sampling Location Sugar House Sampling Time Solution Stop Time 05:40 P.M. Metrological Data/Environmental Conditions 30 Wet Bulb Temperature °C 30 Relative Humidity % RH Sample Receipt Date Analysis Start Date 29/12/2022 Bate of Calibration SEC/FF/1519 Due Date of Calibration SEC/FF/1519 Method Method Init IS:5182 (PART 4):2019 mg/m³ Mg/m³	Sampling LocationSampling wat Sugar HouseSugar HouseGESSampling TimeStop TimeTotalOS:40 P.M.Total05:40 P.M.60 MMetrological Data/Environmental Conditions30Wet Bulb Temperature °C2:30Relative Humidity % RH4930Relative Humidity % RH19Personal SamplerDate of Calibration19/10/SSEC/FF/1519UnitNAAQ StandardsMethodUnitNAAQ StandardsStandards15:5182 (PART 4):2017mg/m³10

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	TEST F	REPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	3/01/778	Report Date	01/02/	2023
Sample ID: -	GESEC/PRO/AAQM/2022-23	3/01/778	Report Date	01/02/2023	
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	Sample Details			
Туре		ng Location		Sampling	done by
Ambient Air		Main Gate		GES	
	Sampli	ng Time			
Start Time		p Time		Total	Hrs.
09:00 A.M.		10:00 A.M.			lin
	Metrological Data/Env	vironmental Co	onditions		
Ambient Temperature °C	22.0	Wet Bulb Temperature °C		17.0	
Dry Bulb Temperature °C	22.0	Relative Humidity % RH		60.6	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date	
25/01/2023	27/01/2023	28/01/2023		01/02/2023	
Name of Instrument	High Volume Sampler	Date O	f Calibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1528	Due Date	of Calibration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):	2019	μg/cum	100.00	61.36
Particulate Matter (PM _{2.5})	IS:5182 (PART 24)	:2019	μg/cum	60.00	21.50
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):	2017	μg/cum	80.00	16.57
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	μg/cum	80.00	23.40

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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/01/779	Report Date	01/02/	2022
Sample ID: -	GESEC/PRO/AAQM/2022-23	/01/779	Report Date	01/02/	2023
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	ample Details).		
Туре	Samplin	g Location		Sampling	done by
Ambient Air		ar ETP		GES	EC
	Samplir	ng Time			
Start Time	Stor	Stop Time			Hrs.
09:10 A.M.		10:10 A.M.			lin
	Metrological Data/Env	ironmental Co	onditions		
Ambient Temperature °C	22.0	Wet Bulb Temperature °C		17.0	
Dry Bulb Temperature °C	22.0	Relative Humidity % RH		60.6	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date	
25/01/2023	27/01/2023	28/	01/2023	01/02/2023	
Name of Instrument	Respirable Dust Sampler	Date Of	f Calibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1525	Due Date	of Calibration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2	2019	μg/cum	100.00	60.83
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):	2019	µg/cum	60.00	20.69
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	2017	μg/cum	80.00	14.78
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	2018	μg/cum	80.00	20.10

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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/01/780	Demant Data	01/02/	2022
Sample ID: -	GESEC/PRO/AAQM/2022-23,	/01/780	Report Date	01/02/	2023
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	ample Details	;		
Туре	Samplin	g Location		Sampling	done by
Ambient Air	Near C	ane Yard		GESI	EC
	Samplir	g Time			
Start Time	Stop Time			Total	Hrs.
09:20 A.M.	10:2	0 A.M.		60 Min	
	Metrological Data/Env	ironmental Co	onditions		
Ambient Temperature ^{oC}	23.0	Wet Bulb Temperature ^{oC}		17.0	
Dry Bulb Temperature °C	23.0	Relative Humidity % RH		54.6	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date
25/01/2023	27/01/2023	28/	/01/2023	01/02/2023	
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration		19/10/2022	
Calibration Certificate No.	SSEC/FF/1526	Due Date	e of Calibration	18/10/	2023
Parameters	Method	Method		NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2	019	μg/cum	100.00	63.36
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):	2019	μg/cum	60.00	23.07
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	017	μg/cum	80.00	15.45
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2	018	µg/cum	80.00	22.41

Remark:-

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

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	TEST REPOR	Т		
Test Report No	GESEC/PRO/ST/2022-23/01/7	Report Date	01/02/2023	
Sample ID -	GESEC/PRO/ST/2022-23/01/7	81		
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanan			ana Ltd.,
	Sample Detai	ils		
Sample collection Date	Sample receipt Date	Analysis st	tart Date	Analysis complete Date
25/01/2023	27/01/2023	28/01/	2023	01/02/2023
	Instrument De	tails		
Name Of Instrument	Stack Monitoring Kit	Date Of Ca	libration	17/10/2022
Calibration Certificate No.	SEC/TH/57	Due Date of	Calibration	16/10/2023
	Stack Detail	s		
Stack No/ID	Stack /	Sampling done by		
01	Stack 1	GESEC		
Shape	Round	Fuel L	Bagasse	
Diameter/ Dimensions (m)	4.73	Press	3.00	
Height (m)		75		
Temperature (^o C)	125	Velocity	6.56	
Gas Volume (Nm ³ /Hr)		311116.1	14	
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³	150	42.36
Sulphur Dioxide (SO ₂)	IC 11255 (Dent 2) 2010	mg/Nm ³	-	15.42
	IS 11255 (Part 2) 2019	Kg/day	-	115.14
	ol Board (MPCB) Limits: SPM: 150 ol Board (MPCB) Limits: SO2: As p	er consent.		0
		PREEN EL		Mr. Vinod Hand (Technical Manage ewed & Authorized E

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	TEST REPOR	т				
Test Report No	GESEC/PRO/ST/2022-23/01/782		Report Date	01,	/02/2023	
Sample ID -	GESEC/PRO/ST/2022-23/01/782					
					1	
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)					
	Sample Deta	nils				
Sample collection Date	Sample receipt Date	Analysis start Date		Analysis complete Date		
25/01/2023	27/01/2023	28/01/202	23	01	01/02/2023	
	Instrument De	etails				
Name Of Instrument	Stack Monitoring Kit	Date Of Calib	ation 17/1		/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Cal	bration 16/10/2023		/10/2023	
	Stack Detai	ls		3		
Stack No/ID	Stack A	ttached to		Sampling done by		
01	Stack 2	Stack 2 (75 TPH)			GESEC	
Shape	Round	Fuel Used		Bagasse		
Diameter/ Dimensions (m)	2.5	Pressure			4.00	
Height (m)	72					
Temperature (^o C)	120	Velocity (m/s)		7.53		
Gas Volume (Nm ³ /Hr)	100993.84					
Parameters	Method	Unit	Limit Result		Result	
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³	150		40.63	
Sulphur Dioxide (SO ₂)		mg/Nm ³	(#1)		14.97	
	IS 11255 (Part 2) 2019	Kg/day	.=0		36.29	
	bl Board (MPCB) Limits: SPM: 1 bl Board (MPCB) Limits: SO2: As	50 mg/Nm ³ .		0		
		OTEN ENV	ROSAFE	(Tech	Ir. Vinod Hande nnical Manager) & Authorized By	
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	TEST RE	PORT					
Test Report No: -	GESEC/PRO/ANLM/2022-23	3/01/783	Report Date	01/02/2023			
Sample ID: -	GESEC/PRO/ANLM/2022-23	3/01/783	Report Date	01/02/2023			
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkan			Ltd.,			
	Ambient Noise Sa	ample Details					
Туре	Ambient Noise						
Sampling done by	GESEC						
Standard method	As Per IS: 9989:2020	As Per IS: 9989:2020					
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date			
25/01/2023							
Name Of Instrument	Digital Sound Level Meter	Date Of	17/10/2022				
Calibration Certificate No.	SSEC/ME/266	Due Date o	16/10/2023				
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)			
		Day (11:45 P.M.)	Night (10:10 P.M.)				
Near Main Gate	dB(A)	63.9	61.5	During Day time =			
Near ETP	dB(A)	63.0	62.2	75 dB (A)			
Near Bagasse Section	dB(A)	68.2	64.9	During Night time=			
Near Sugar Godown	dB(A)	69.0	64.8	70 dB(A)			
Near Cane Yard	dB(A)	72.1	68.0				

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

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		ST REPORT		1
Test Report No: -	GESEC/PRO/WNLM/202	2-23/01/784	Report Date	01/02/2023
Sample ID: -	GESEC/PRO/WNLM/202	2-23/01/784	Report Date	01/02/2025
Name & Address of the Customer	M/s. Kallappanna Awad Hupari-Yalgud, Tal: Hati			ana Ltd.,
	Work Zone N	loise Sample Details		
Туре	Work Zone Noise	loise sumple setuis		
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis End Date
25/01/2023	Sample Receipt Date	Analysis		
23/01/2023				
Name of Instrument	Sound Level Meter	Date o	Date of Calibration	
Calibration Certificate No.	SSEC/ME/259	Due Date	of Calibration	06/10/2023
		Average Noise	e Level Readings	The Factories Act 1948
Test Location	Unit	Day (12:30 P.M.)	Night (10:45 P.M.)	standards
Centrifugal Section	dB(A)	84.8	82.2	
Furbine Section	dB(A)	87.6	84.8	
Boiler Section	dB(A)	84.8	83.0]
Vill Section	dB(A)	83.5	81.1	
Pan Section	dB(A)	85.2	82.7	≤ 90
Remark- The Factories Act, 1948, has All above results are within I		gree Gree	N ENVIROS PUNE	Sure.

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	TEST REPORT			
Test Report No: GESEC/PRO/WW/2022-23/01/785	Report Date		01/02/2023	
Sample ID : GESEC/PRO/WW/2022-23/01/785	Sample Details		ETP Inlet	
	Type of Samp	le	Waste Water	
Name & Address of the Customer:	Volume Of Sa	mple	1 Lit plastic bottle	
	Sample Statu	s	Sealed	
M/s. Kallappanna Awade Jawahar Shetkari	Sample Colle	cted By	GESEC	
Sahakari Sakhar Karkhana Ltd.,	Date of Samp	le Collection	25/01/2023	
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Sample Recei	pt Date	27/01/2023	
(Maharashtra)	Analysis start	Date	28/01/2023	
	Analysis End	Date	01/02/2023	
Parameters	Results	Unit	Standard Method	
pH	3.50		APHA 4500 H+,B 23rd Edition.2017	
Suspended Solids (SS)	154.77	mg/lit	APHA 2540 D 23 rd ED:2017	
Total Dissolved Solids (TDS)	2659.80	mg/lit	APHA 2540,C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	2631.45	mg/lit	IS 3025 (Part 58) , 2019	
Biochemical Oxygen Demand (BOD)	1294.87	mg/lit	IS 3025 (Part 44), 2019	
Chlorides as Cl-	754.12	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017	
Sulphates as SO4	632.99	mg/lit	APHA 3025 (Part 24) ;2019	
Sulphates as 504-				

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		TEST REPORT		1		
Test Report No: GESEC/PRO/WW/20	22-23/01/786	Report Date	2	01/02/2023		
Sample ID : GESEC/PRO/WW/2022-23/01/786		Sample Det	ails	ETP Outlet		
	Type of Sam	nple	Waste Water			
		Volume Of S	Sample	1 Lit plastic bottle		
Name & Address of the Customer:	Sample Stat	tus	Sealed			
M/s. Kallappanna Awade Jawahar Sh Sahakari Sakhar Karkhana Ltd.,	Sample Coll	ected By	GESEC			
Hupari-Yalgud, Tal: Hatkanangale, Di	Date of Sam	ple Collection	25/01/2023 27/01/2023			
(Maharashtra)		Sample Rec			eipt Date	
		Analysis sta	rt Date	28/01/2023		
		Analysis En	d Date	01/02/2023		
Parameters	Results	MPCB LIMIT	Unit	Standard Method		
рН	7.64	6.5-8.5	-	APHA 4500 H+,B 23rd Edition.2017		
Suspended Solids (SS)	16.47	100	mg/lit	APHA 2540 D 23rd ED:2017		
Total Dissolved Solids (TDS)	862.01	2100	mg/lit	APHA 2540,C,23rd Edition, 2017		
Chemical Oxygen Demand (COD)	65.24	250	mg/lit	IS 3025 (Part 58), 2019		
Biochemical Oxygen Demand (BOD)	23.77	100	mg/lit	IS 3025 (Part 44), 2019		
Chlorides as Cl-	95.63	600	mg/lit	APHA 4500 CI- B,23rd Edition, 2017		
	100 AD 110 AD 110 AD	1000	44.	APHA 3025 (Part 24) ;2019		
Sulphates as SO4	74.19	1000	mg/lit	APHA 3025 (Part 24) ;2019		

Remark:

> P BDL - Below Detectable Limit.

All parameters are within the MPCB limit.

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	TEST REPO	DRT			
Test Report No: GESEC/PRO/WW/2022-23/01/787		Report Dat	te	01/02/2023	
Sample ID : GESEC/PRO/WW/2022-23/01/7	Sample De	tails	Factory STP Inlet 50 KLPD		
	Type of Sa	mple	Waste Water		
	Volume Of	Sample	1 Lit plastic bottle		
Name & Address of the Customer:	Sample Sta	itus	Sealed		
M/s. Kallappanna Awade Jawahar Shetkari Karkhana Ltd.,	Sample Co	llected By	GESEC		
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kol	Date of San	mple Collection	25/01/2023		
(Maharashtra)	Sample Re	ceipt Date	27/01/2023		
(Analysis start Date		28/01/2023	
	Analysis End Date		01/02/2023		
Parameters	Results	Unit	Star	ndard Method	
рН	6.22		APHA 4500 H+,B 23rd Edition.2017		
Suspended Solids (SS)	82.47	mg/lit	APHA 25	540 D 23rd ED:2017	
Total Dissolved Solids (TDS)	1305.96	mg/lit	APHA 2540),C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	160.24	mg/lit	IS 302	5 (Part 58) , 2019	
Biochemical Oxygen Demand (BOD)	85.79	mg/lit	IS 3025 (Part 44), 2019		
Chlorides as Cl ⁻	210.64	mg/lit	APHA 4500 (Cl- B,23rd Edition, 2017	
Sulphates as SO ₄	165.98	mg/lit	APHA 30	025 (Part 24) ;2019	
	BDL	mg/lit	IS 3025 (Part 39), 2019		

All parameters are within the MPCB limit.

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		TEST REPORT		1	
Test Report No: GESEC/PRO/WW/202	2-23/01/788	Report Date		01/02/2023	
Sample ID : GESEC/PRO/WW/2022-23/01/788		Sample Det	ails	Factory STP Outlet 50 KLPD	
8	Type of Sam	ple	Waste Water		
	Volume Of S	Sample	1 Lit plastic bottle		
Name & Address of the Customer:	Sample Stat	us	Sealed		
M/s. Kallappanna Awade Jawahar She Sahakari Sakhar Karkhana Ltd.,	tkari	Sample Coll	ected By	GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Dis	t: Kolhapur	Date of Sam	ple Collection	25/01/2023	
(Maharashtra)		Sample Rec	eipt Date	27/01/2023 28/01/2023	
		Analysis sta	rt Date		
		Analysis End	d Date	01/02/2023	
Parameters	Results	MPCB LIMIT	Unit	Standard Method	
pH	7.55	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017	
Suspended Solids (SS)	13.74	100	mg/lit	APHA 2540 D 23rd ED:2017	
Total Dissolved Solids (TDS)	589.67	2100	mg/lit	APHA 2540,C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	40.80	250	mg/lit	IS 3025 (Part 58), 2019	
Biochemical Oxygen Demand (BOD)	15.74	100	mg/lit	IS 3025 (Part 44), 2019	
Chlorides as Cl ⁻	78.02	600	mg/lit	APHA 4500 CI- B,23rd Edition, 2017	
Sulphates as SO4	66.39	1000	mg/lit	APHA 3025 (Part 24) ;2019	
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019	

Remark:

8 BDL - Below Detectable Limit.

8 All parameters are within the MPCB limit.

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	TEST REP	ORT			
Test Report No: GESEC/PRO/WW/2022-23/01/789		Report Date		01/02/2023	
Sample ID : GESEC/PRO/WW/2022-23/01/78	Sample Detai	ls	Colony STP Inlet 100 KLPD		
	Type of Samp	le	Waste Water		
	Volume Of Sa	mple	1 Lit plastic bottle		
Name & Address of the Customer:	Sample Statu	S	Sealed		
M/s. Kallappanna Awade Jawahar Shetkari Sa Karkhana Ltd.,	Sample Colleg	cted By	GESEC		
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolha	Date of Samp	le Collection	25/01/2023		
(Maharashtra)		Sample Recei	pt Date	27/01/2023	
		Analysis start Date Analysis End Date		28/01/2023 01/02/2023	
Parameters	Results	Unit	9	Standard Method	
рН	6.30		APHA 4500 H+,B 23rd Edition.2017		
Suspended Solids (SS)	75.41	mg/lit	APHA	A 2540 D 23 rd ED:2017	
Total Dissolved Solids (TDS)	1143.69	mg/lit	APHA 2	540,C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	142.07	mg/lit	IS 3	025 (Part 58) , 2019	
Biochemical Oxygen Demand (BOD)	66.81	mg/lit	IS 3	3025 (Part 44), 2019	
Chlorides as Cl ⁻	156.92	mg/lit	APHA 450	00 Cl- B,23rd Edition, 2017	
Sulphates as SO ₄	136.92	mg/lit	APHA 3025 (Part 24) ;2019		
Oil & Grease	BDL	mg/lit	IS 3	3025 (Part 39), 2019	
Remark: > BDL – Below Detectable Limit. > All parameters are within the MPCB limit.	imit.			0	

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	TEST F	EPORT		2	
Test Report No: GESEC/PRO/WW/2022-23/	01/790	Report Date	e	01/02/	2023
Sample ID : GESEC/PRO/WW/2022-23/01/7	'90	Sample Det	ails	Colony STP Ou	tlet 100 KLPD
		Type of Sam	nple	Waste	Water
		Volume Of S	Sample	1 Lit plast	ic bottle
Name & Address of the Customer:	Sample Stat	tus	Seal	ed	
M/s. Kallappanna Awade Jawahar Shetkari S Sakhar Karkhana Ltd.,	Sample Coll	ected By	GES	EC	
Hupari-Yalgud, Tal: Hatkanangale, Dist: Koll	Date of Sam	ple Collectio	n 25/01/	2023	
(Maharashtra)	Sample Rec	eipt Date	27/01/	2023	
(Analysis sta	rt Date	28/01/	2023	
	Analysis End	d Date	01/02/	2023	
Parameters	Results	MPCB LIMIT	Unit	Standard M	ethod
рН	7.45	6.5-8.5		APHA 4500 H+,B 23rd Edition.20	
Suspended Solids (SS)	15.94	100	mg/lit	APHA 2540 D 23	rd ED:2017
Total Dissolved Solids (TDS)	502.31	2100	mg/lit	APHA 2540,C,23rd	Edition, 2017
Chemical Oxygen Demand (COD)	38.93	250	mg/lit	IS 3025 (Part 5	8), 2019
Biochemical Oxygen Demand (BOD)	14.07	100	mg/lit	IS 3025 (Part 4	4), 2019
Chlorides as Cl ⁻	86.92	600	mg/lit	APHA 4500 Cl- B,23rd	d Edition, 2017
Sulphates as SO4	65.11	1000	mg/lit	APHA 3025 (Part	: 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 3	9), 2019
Remark: > BDL – Below Detectable Limit. > All parameters are within the MPCB	limit.				

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		REPORT			100 mili
Test Report No: -	GESEC/PRO/WZM/2022-23/	01/795	Report Date	01/02/2023	
Sample ID: -	GESEC/PRO/WZM/2022-23/01/795		Report Date	01/02/202	.5
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana				
4	WORKZONE AIR QUALIT	Y MONITORING	RESULTS		
Туре	Samplir	ng Location		Sampling	done by
Ambient Air	Pan	Section		GES	
	Sampli	ng Time		555 (5.1.2.1)	
Start Time		p Time		Total	Hrs.
09:30 A.M.		30 A.M.		60 N	/lin
	Metrological Data/Env	vironmental Con	ditions		
Ambient Temperature ^{oC}	26.0	Wet Bulb Temperature ^{oC}		19.0	
Dry Bulb Temperature ^{oC}	26.0	Relative Humidity % RH		51.0	
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis E	nd Date
25/01/2023	27/01/2023	28/01/2023		01/02/2023	
Name of Instrument	Handy Sampler	Date of C	Calibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1517	Due Date o	f Calibration		
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):	2019	mg/m ³	10	0.437
Sulphur Dioxide (SO2)	IS:5182 (PART 2):	2017	mg/m ³	5	0.008
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018 mg/m ³		mg/m ³	6	0.013
Oxides of Nitrogen(NO _x) Note:	IS:5182 (PART 6): pient Air Quality Standards, Cent	2018 ral Pollution Con	mg/m ³	6	0.01

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	TEST	REPORT	_		
Test Report No: -	GESEC/PRO/WZM/2022-23/01/796 R GESEC/PRO/WZM/2022-23/01/796			04 /00 /000	
Sample ID: -			Report Date	01/02/202	3
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana				
	WORKZONE AIR QUALIT	Y MONITORING	RESULTS		
Туре		g Location		Sampling	done by
Ambient Air		r House		GES	
		ing Time			
Start Time		p Time		Total	Hrs.
09:40 A.M.	10:4	10:40 A.M.			/lin
	Metrological Data/En	vironmental Cor	ditions		
Ambient Temperature ^{oC}	26.0	Wet Bulb Temperature ^{oC}		19.0	
Dry Bulb Temperature ^{oC}	26.0	Relative Humidity % RH		51.0	
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis E	nd Date
25/01/2023	27/01/2023	28/01/2023		01/02/2023	
Name Of Instrument	Personal Sampler	Date of C	alibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1519		f Calibration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2	2019	mg/m ³	10	0.326
	IS:5182 (PART 2):2	2017	mg/m ³	5	0.007
Sulphur Dioxide (SO ₂) Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018		mg/m ³	6	0.012

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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/01/797	Report Date	01/02/202	3
Sample ID: -	GESEC/PRO/AAQM/2022-23	Report Date	01/02/202	5	
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	ample Details			
Туре		g Location		Sampling	done by
Ambient Air		ge (Upwind West	t)	GESI	EC
		ng Time			
Start Time		p Time		Total	Hrs.
08:00 AM.		00 AM.		60 M	lin
	Metrological Data/Env		ditions		
Ambient Temperature °C	22.0		mperature °C	17.	0
Dry Bulb Temperature °C	22.0	Relative Humidity % RH		61.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date	
25/01/2023	27/01/2023	28/01/2023		01/02/2023	
Name of Instrument	High Volume Sampler	Date Of C	alibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1528	Due Date of	f Calibration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):	2019	µg/cum	100.00	56.13
Sulphur Dioxide (SO2)	IS:5182 (PART 2):	2017	μg/cum	80.00	10.74
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	µg/cum	80.00	14.29
Remark ▶ NAAQS - National Amb / PCI – I, New Delhi, the 18th No	ient Air Quality Standards, Cent ovember 2009.	SREEN.	ENVIPOS ENVIPOS PUNE	cation, No. B - 29	
		Engineers	PUNE FE BI	A DESCRIPTION OF THE REAL OF T	Vinod Hand ical Manage

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A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV, Village Nighoje, Tal. Khed, Dist. Pune-410501. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666 onsultant Pvt Ltd. E-mail : environsafetyeng@gmail.com, gesec12@gmail.com | www.greenenvirosafe.co.in

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	TEST RE	PORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/01/798 GESEC/PRO/AAQM/2022-23/01/798		Report Date	01/02/2023	3
Sample ID: -			Report Dute		
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanar	ahar Shetkari Sa ngale, Dist: Kolha	ahakari Sakhar K Apur (Maharasht	arkhana Ltd., ra)	
	Ambient Air Sa	mple Details			
Туре		Location		Sampling	lone by
Ambient Air	Jangamwadi Villag		st)	GESE	C
Allivent All	Samplin				
Start Time		Time		Total I	Hrs.
09:00 AM.		0 AM.		60 M	in
03.007.000	Metrological Data/Envi	ronmental Cond	litions		
Ambient Temperature °C	24.0	Wet Bulb Temperature °C		18.0	
Dry Bulb Temperature °C	24.0	Relative Humidity % RH		56.0	
Date of Sampling	Sample Receipt Date	Sample Receipt Date Analysis Start Date		Analysis End Date	
25/01/2023	27/01/2023	28/01/2023		01/02/2023	
Name of Instrument	Respirable Dust Sampler	Date Of C	alibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1525		Calibration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2	2019	µg/cum	100.00	58.66
	IS:5182 (PART 2):2		µg/cum	80.00	12.47
	IS:5182 (PART 6):2	2018	µg/cum	80.00	16.01
Sulphur Dioxide (SO ₂) Oxides of Nitrogen(NO _x) Remark	IS:5182 (PART 2):2 IS:5182 (PART 6):2 Dient Air Quality Standards, Centr	2017 2018	μg/cum μg/cum trol Board Notifie	80.00	16

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	TEST F	REPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/02/636	Bonort Data	03/03/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23/02/636		Report Date	03/03/2023	
Name & Address of the Customer	M/s. Kallappanna Awade Jar Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	Sample Details			
Туре		g Location		Sampling	done by
Ambient Air	Near N	Aain Gate		GES	EC
	Sampli	ng Time			
Start Time	Sto	p Time		Total	Hrs.
11:30 AM.	12:	30 PM.		60 N	lin
	Metrological Data/Env	vironmental Con	ditions		
Ambient Temperature °C	30.0	15.0			
Dry Bulb Temperature °C	30.0	Relative Hu	umidity % RH	16.5	
Date of Sampling	Sample Receipt Date	Sample Receipt Date Analysis Start Date		Analysis E	nd Date
24/02/2023	25/02/2023	27/02/2023		03/03/2023	
Name of Instrument	High Volume Sampler	Date Of (Calibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1528	Due Date o	of Calibration	18/10/	and the second se
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):	2019	μg/cum	100.00	60.23
Particulate Matter (PM _{2.5})	IS:5182 (PART 24)	:2019	μg/cum	60.00	20.00
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):	2017	μg/cum	80.00	14.78
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018 µg/cum			80.00	21.94

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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	GESEC/PRO/AAQM/2022-23/02/637			
Sample ID: -	GESEC/PRO/AAQM/2022-23/02/637		Report Date	03/03/2023	
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	ample Details			
Туре	Samplin	g Location		Sampling	done by
Ambient Air	Nea	r ETP		GESI	EC
	Samplin	g Time			
Start Time	Stop	Time		Total	Hrs.
11:40 AM.		0 PM.		60 Min	
	Metrological Data/Env	ironmental Cond	itions		
Ambient Temperature °C	30.0	30.0 Wet Bulb Temperature °C			0
Dry Bulb Temperature °C	30.0	Relative Humidity % RH		16.5	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date
24/02/2023	25/02/2023	27/02/2023		03/03/2023	
Name of Instrument	Respirable Dust Sampler	Date Of Ca	alibration	19/10/2022	
Calibration Certificate No.	SSEC/FF/1525	Due Date of	Calibration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2	019	μg/cum	100.00	59.13
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):		µg/cum	60.00	18.33
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	017	μg/cum	80.00	12.45
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	018	μg/cum	80.00	17.96

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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/02/638	Report Date	02/02/	2023
Sample ID: -	GESEC/PRO/AAQM/2022-23/02/638		Report Date	03/03/2023	
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	ample Details			
Type	Samplin	g Location		Sampling	done by
Ambient Air	Near C	ane Yard		GESI	EC
	Samplir	ng Time			
Start Time	Stor	Time		Total	Hrs.
11:50 AM.	12:5	12:50 PM.			lin
	Metrological Data/Env	ironmental C	onditions		
Ambient Temperature °C	31.0	0 Wet Bulb Temperature °C			0
Dry Bulb Temperature °C	31.0	Relative	Humidity % RH	14.1	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date
24/02/2023	25/02/2023	27/02/2023		03/03/	2023
Name Of Instrument	High Volume Combined Sampler	Date of Calibra		19/10/2022	
Calibration Certificate No.	SSEC/FF/1526	Due Date	of Calibration	18/10/2023	
Parameters	Method	6	Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2	2019	μg/cum	100.00	61.36
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):	2019	μg/cum	60.00	22.85
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	2017	μg/cum	80.00	14.52
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	2018	μg/cum	80.00	20.98

Remark:-

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



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	TEST REPO	DRT				
Test Report No	GESEC/ST/2022-23/02/639	03/03/2023				
Sample ID -	GESEC/ST/2022-23/02/639	Date				
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana	wahar Shetkari Sah angale, Dist: Kolhap	akari Sakhar bur (Maharash	Karkhana Ltd., htra)		
	Sample Det	ails				
Sample collection Date	Sample receipt Date	Analysis star	rt Date	Analysis complete Date		
24/02/2023	25/02/2023	27/02/20	023	03/03/2023		
	Instrument D	etails				
Name Of Instrument	Stack Monitoring Kit	Date Of Calib	oration	17/10/2022		
Calibration Certificate No.	SEC/TH/57	SEC/TH/57 Due Date of Calibration				
	Stack Deta	ils		16/10/2023		
Stack No/ID	Stack At	tached to		Sampling done by		
01	Stack 1 (9	Stack 1 (90+20 TPH) GE				
Shape	Round Fuel Used			Bagasse		
Diameter/ Dimensions (m)	4.73	Pressur	e	4.00		
Height (m)		75				
Temperature (^o C)	130	Velocity (n	n/s)	7.62		
Gas Volume (Nm ³ /Hr)		357010.4		,		
Parameters						
uspended Particulate Matter (SPM)	Method	Unit	Limit	Result		
ulphur Dioxide (SO ₂)	IS 11255 (Part 1) 2019	mg/Nm ³	150	40.13		
	IS 11255 (Part 2) 2019	mg/Nm ³	-	19.20		
emarks-	2) XI	Kg/day		164.51		
Maharashtra Pollution Control	Board (MPCB) Limits: SPM: 15 Board (MPCB) Limits: SO ₂ : As p	0 mg/NM³. per consent.				

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GESEC/ST/2022-23/02/640 GESEC/ST/2022-23/02/640 M/s. Kallappanna Awade Jan Hupari-Yalgud, Tal: Hatkana Sample Deta	wahar Shetkari Sah Ingale, Dist: Kolhap	Report Date	03/03/2023	
M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana Sample Deta	wahar Shetkari Sah			
Hupari-Yalgud, Tal: Hatkana Sample Deta	wahar Shetkari Sah Ingale, Dist: Kolhap	akari Sakhar		
Hupari-Yalgud, Tal: Hatkana Sample Deta	wahar Shetkari Sah Ingale, Dist: Kolhap	akari Sakhar		
Sample Deta		ur (Maharasi	Karkhana Ltd., htra)	
C				
Sample receipt Date	Sample receipt Date Analysis start Date			
25/02/2023	27/02/20	23	Analysis complete Dat 03/03/2023	
Instrument De			03/03/2023	
Stack Monitoring Kit	Date Of Calib	ration	17/10/2022	
SEC/TH/57		1.00.000.000	16/10/2023	
Stack Detail			10/10/2025	
Stack At	tached to		Sampling done by	
			GESEC	
Round				
25			Bagasse 3.00	
125		/c)	6.56	
in the Lot		/5/	6.56	
	00512.11			
Method	Unit	Limit	Result	
IS 11255 (Part 1) 2019			38.83	
		-	15.60	
IS 11255 (Part 2) 2019			32.54	
	NG/ day		52.54	
Board (MPCB) Limits: SPM: 150	0 mg/Nm ³ .			
Source (WFCB) Limits, SU2: AS	ber consent.		1	
Car	ENENVIROSET	Re	Mr. Vinod Hand (Technical Manage eviewed & Authorized B	
	Stack Monitoring Kit SEC/TH/57 Stack Detail Stack Detail Stack At Stack 2 Round 2.5 125 125 Method IS 11255 (Part 1) 2019 IS 11255 (Part 2) 2019 Board (MPCB) Limits: SPM: 150 Board (MPCB) Limits: SO2: As Stack Detail Method	SEC/TH/57 Due Date of Cal Stack Details Stack Attached to Stack 2 (75 TPH) Stack 2 (75 TPH) Round Fuel User 2.5 Pressure 2.5 Pressure 125 Velocity (m 86912.11 Stack 2 (75 TPH) Method Unit IS 11255 (Part 1) 2019 mg/Nm³ IS 11255 (Part 2) 2019 mg/Nm³ Soard (MPCB) Limits: SPM: 150 mg/Nm³. Soard (MPCB) Limits: SO2: As per consent. ***END OF REPORT***/UNE	Stack Monitoring KitDate Of CalibrationSEC/TH/57Due Date of CalibrationStack DetailsStack DetailsStack Attached toStack 2 (75 TPH)RoundFuel Used2.5Pressure72125Velocity (m/s)Segen 2125Velocity (m/s)86912.11MethodUnitIS 11255 (Part 1) 2019mg/Nm³IS 11255 (Part 2) 2019mg/Nm³Kg/day-Soard (MPCB) Limits: SPM: 150 mg/Nm³. Board (MPCB) Limits: SO2: As per consent.KENVIROSERevision of the ENVIROSERevision of the ENVIROSEKENVIROSERevision of the ENVIROSERevision of the ENVIROSE	

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		TEST RE			
Test Report No: -	GESEC/	ANLM/2022-23/02/0	541		
Sample ID: -	GESEC/	ANLM/2022-23/02/6	541	Report Date	03/03/2023
Name & Address of the Customer	M/s. Ka Hupari	llappanna Awade Ja -Yalgud, Tal: Hatkana	wahar Shetkari Sah angale, Dist: Kolhap	akari Sakhar Karkhar ur (Maharashtra)	na Ltd.,
		Ambient Noise Sa	male Details		
Туре	Ambien		inple Details		
Sampling done by	GESEC				
Standard method	As Per I	S: 9989:2020			
Date of Sampling	Sample Receipt Date		Analysis Start Date		Analysis End Date
24/02/2023			, in a start of the start of th		
Name Of Instrument	Digital S	Sound Level Meter	Date Of (Calibration	17/10/2022
Calibration Certificate No.	S	SEC/ME/266	Due Date of Calibration		16/10/2023
					10/10/2025
Test Location		Unit	Average Noise	Average Noise Level Readings	
		ont	Day (02:30 P.M.)	Night (10:15 P.M.)	dB(A)
Near Main Gate		dB(A)	63.8	62.1	1000
Near ETP		dB(A)	64.0	61.5	During Day time :
Near Bagasse Section		dB(A)	66.9	64.2	75 dB (A)
Near Sugar Godown		dB(A) dB(A)	67.1	66.9	During Night time
Near Cane Yard Remark-	ear Cane Yard		70.1	68.9	70 dB(A)

(A) during the Night Time.

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		TEST REPORT		
Test Report No: -	GESEC/WNLM/2022-23/	02/642		
Sample ID: -	GESEC/WNLM/2022-23/	02/642	Report Date	03/03/2023
Name & Address of the Customer	M/s. Kallappanna Awad Hupari-Yalgud, Tal: Hatk	hana Ltd.,		
1•22 (P.				
•	Work Zone	Noise Sample Deta	ile	
Туре	Work Zone Noise	indisc sample Deta	1115	
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Samula Bassi + Bass			
24/02/2023	Sample Receipt Date	Analysis	Analysis End Date	
21/02/2023				
Name of Instrument	Sound Level Meter	Data of (Calibration	
Calibration Certificate No.	SSEC/ME/259		07/10/2022	
	5520/1012/259	Due Date o	f Calibration	06/10/2023
		Average Noise		
Test Location	Unit	Day (03:10 P.M.)	Night (10:55 P.M.)	 The Factories Act 1948, standards
Centrifugal Section	dB(A)	80.4	78.2	
urbine Section	dB(A)	80.2	78.4	- ×
Boiler Section	dB(A)	85.1	84.7	≤ 90
Aill Section	dB(A)	86.4	82.9	- 230
an Section	dB(A)	86.8		-
lemark-	, has prescribed 90 dB (A) a		83.0	exposuro

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	TEST REPORT	2	
Test Report No: GESEC/WW/2022-23/02/643	Report Date		03/03/2023
Sample ID : GESEC/WW/2022-23/02/643	Sample Details		ETP Inlet
	Type of Sam	ple	Waste Water
Name & Address of the Customer:	Volume Of S	ample	1 Lit plastic bottle
M/s Kallannanna Australa Isaa ka shaka k	Sample Statu	IS	Sealed
M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)	Sample Colle	cted By	GESEC
		ole Collection	24/02/2023
	Sample Rece	ipt Date	25/02/2023
	Analysis star		27/02/2023
	Analysis End	Date	03/03/2023
Parameters	Results	Unit	Standard Method
pH	3.00		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	146.59	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	3251.47	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2896.60	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1024.95	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	911.34	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4-	746.93	mg/lit	APHA 3025 (Part 24) ;2019
Dil & Grease	14.00	mg/lit	IS 3025 (Part 39), 2019

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		TEST REPOR	Г		
Test Report No: GESEC/WW/2022-23		Report Dat	e	03/03/2023	
Sample ID : GESEC/WW/2022-23/02/	Sample De	tails	ETP Outlet		
		Type of San	nple	Waste Water	
Name & Address of the Customer:		Volume Of	Sample	1 Lit plastic bottle	
M/s. Kallappanna Awade Jawahar She	etkari	Sample Sta	tus	Sealed	
Sahakari Sakhar Karkhana Ltd.,		Sample Col	lected By	GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Dis	st: Kolhapur	Date of Sar	nple Collection	24/02/2023 25/02/2023	
(Maharashtra)		Sample Red			
		Analysis sta		27/02/2023	
		Analysis En	d Date	03/03/2023	
Parameters	Results	MPCB LIMIT	Unit	Standard Method	
Н	7.52	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017	
Suspended Solids (SS)	19.45	100	mg/lit	APHA 2540 D 23rd ED:2017	
Total Dissolved Solids (TDS)	753.21	2100	mg/lit	APHA 2540,C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	63.98	250	mg/lit	IS 3025 (Part 58), 2019	
Biochemical Oxygen Demand (BOD)	24.10	100	mg/lit	IS 3025 (Part 44), 2019	
Chlorides as Cl-	87.44	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017	
Sulphates as SO4	69.86	1000	mg/lit	APHA 3025 (Part 24) ;2019	
Oil & Grease	BDL	10			

Remark:

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BDL – Below Detectable Limit.

All parameters are within the MPCB limit.

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	TEST	REPORT			
Test Report No: GESEC/WW/2022-23	Report Da	ate	03/03/2023		
Sample ID : GESEC/WW/2022-23/02/	645	Sample D	etails	Factory STP Inlet 50 KLPD	
		Type of Sa	ample	Waste Water	
Name & Address of the Customer:		Volume O	f Sample	1 Lit plastic bottle	
M/s. Kallappanna Awade Jawahar Sh	etkari	Sample St	atus	Sealed	
Sahakari Sakhar Karkhana Ltd.,		Sample Co	ollected By	GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Di	st: Kolhapur		imple Collection	24/02/2023	
(Maharashtra)			eceipt Date	25/02/2023	
		Analysis st		27/02/2023	
		Analysis E	nd Date	03/03/2023	
Parameters	Results	Unit	Stan	dard Method	
рΗ	6.10			l+,B 23rd Edition.2017	
Suspended Solids (SS)	95.62	mg/lit		40 D 23 rd ED:2017	
Fotal Dissolved Solids (TDS)	1221.89	mg/lit),C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	145.07	mg/lit		(Part 58) , 2019	
Biochemical Oxygen Demand (BOD)	91.64			(Part 44), 2019	
Chlorides as Cl ⁻	256.71	mg/lit	and the second se	- B,23rd Edition, 2017	
ulphates as SO4	143.95	mg/lit		25 (Part 24) ;2019	
Dil & Grease	BDL	mg/lit		(Part 39) 2019	

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Remark:

A BDL - Below Detectable Limit. Þ

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IS 3025 (Part 39), 2019

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	TE	ST REPORT				
Test Report No: GESEC/WW/2022-23		Report Date			03/03/2023	
Sample ID : GESEC/WW/2022-23/02	Sample De	tails		Factory STP Outlet 50 KLPD		
N		Type of Sa	mple		Waste Water	
Name & Address of the Customer:	Volume Of	Sample		1 Lit plastic bottle		
M/s. Kallappanna Awade Jawahar Sh	Sample Sta	itus		Sealed		
Sahakari Sakhar Karkhana Ltd.,		Sample Col	lected By		GESEC	
Hupari-Yalgud, Tal: Hatkanangale, D	ist: Kolhapur	Date of Sar		tion	24/02/2023	
(Maharashtra)	Sample Red			25/02/2023		
	Analysis start Date Analysis End Date			27/02/2023		
				03/03/2023		
Parameters	Results	MPCB LIMIT	Unit		Standard Method	
Н	7.62	6.5-8.5		APHA 4500 H+,B 23rd Edition.2		
Suspended Solids (SS)	14.71	100	mg/lit		APHA 2540 D 23rd ED:2017	
Fotal Dissolved Solids (TDS)	495.62	2100	mg/lit	AP	HA 2540,C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	42.10	250	mg/lit		IS 3025 (Part 58) , 2019	
Biochemical Oxygen Demand (BOD)	16.97	100	mg/lit		IS 3025 (Part 44), 2019	
Chlorides as Cl ⁻	75.42	600	mg/lit	APH	A 4500 Cl- B,23rd Edition, 2017	
Sulphates as SO4	62.05	1000	mg/lit		APHA 3025 (Part 24) ;2019	
Dil & Grease	BDL	10	mg/lit		IS 3025 (Part 39), 2019	

BDL – Below Detectable Limit.

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All parameters are within the MPCB limit.

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	TEST	REPORT			
Test Report No: GESEC/WW/2022-23	/02/647	Report Da	ite	03/03/2023	
Sample ID : GESEC/WW/2022-23/02/	Sample De	etails	Colony STP Inlet 100 KLPD		
		Type of Sa	imple	Waste Water	
Name & Address of the Customer:		Volume O	f Sample	1 Lit plastic bottle	
M/s. Kallappanna Awade Jawahar She	etkari	Sample St	atus	Sealed	
Sahakari Sakhar Karkhana Ltd.,		Sample Co	ollected By	GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Dis	st: Kolhapur		mple Collection	24/02/2023	
(Maharashtra)			ceipt Date	25/02/2023	
		Analysis st	art Date	27/02/2023	
		Analysis E	nd Date	03/03/2023	
Parameters	Results	Unit	Star	ndard Method	
рН	6.01		APHA 4500 H+,B 23rd Edition.20		
Suspended Solids (SS)	102.65	mg/lit	APHA 2540 D 23 rd ED:2017		
Total Dissolved Solids (TDS)	1452.98	mg/lit),C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	172.63			5 (Part 58) , 2019	
Biochemical Oxygen Demand (BOD)	96.52	mg/lit		5 (Part 44), 2019	
Chlorides as Cl ⁻	186.77	mg/lit		Cl- B,23rd Edition, 2017	
Sulphates as SO4	151.34	mg/lit		25 (Part 24) ;2019	
Dil & Granca				,	

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BDL - Below Detectable Limit.

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	TE	ST REPORT				
Test Report No: GESEC/WW/2022-23	Report Date			03/03/2023		
Sample ID : GESEC/WW/2022-23/02/	648	Sample De	tails		Colony STP Outlet 100 KLPD	
	Type of Sar	nple		Waste Water		
Name & Address of the Customer:	Volume Of	Sample		1 Lit plastic bottle		
M/s. Kallappanna Awade Jawahar Sh	etkari	Sample Sta	tus		Sealed	
Sahakari Sakhar Karkhana Ltd.,		Sample Col	lected By		GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Di	Date of Sar		tion	24/02/2023		
(Maharashtra)		Sample Red			25/02/2023	
	Analysis start Date			27/02/2023		
	Analysis En	d Date		03/03/2023		
Parameters	Results	MPCB LIMIT	Unit		Standard Method	
Н	7.52	6.5-8.5		APHA 4500 H+,B 23rd Edition.20		
Suspended Solids (SS)	18.99	100	mg/lit		PHA 2540 D 23rd ED:2017	
Fotal Dissolved Solids (TDS)	562.31	2100	mg/lit	APHA 2540,C,23rd Edition, 2017		
Chemical Oxygen Demand (COD)	42.10	250	mg/lit	IS 3025 (Part 58) , 2019		
Biochemical Oxygen Demand (BOD)	16.98	100	mg/lit	IS 3025 (Part 44), 2019		
Chlorides as Cl ⁻	95.41	600	mg/lit	APHA	4500 Cl- B,23rd Edition, 2017	
Sulphates as SO4	70.12	1000	mg/lit		PHA 3025 (Part 24) ;2019	
Dil & Grease	BDL	10	mg/lit		IS 3025 (Part 39), 2019	

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	TEST	REPORT			
Test Report No: -	GESEC/WZM/2022-23/02/6	51			
Sample ID: -	GESEC/WZM/2022-23/02/651 Rep		Report Date	03/03/202	23
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana				
	WORKZONE AIR QUALIT		RESULTS		
Туре		ng Location		Sampling	done by
Ambient Air		Section		GES	
	Sampli	ing Time			
Start Time		p Time		Total	Hrs.
11:20 AM.		20 PM.		60 N	
	Metrological Data/Env		litions		
Ambient Temperature °C	30.0	Wet Bulb Ten		20.0	
Dry Bulb Temperature °C	30.0	Relative Humidity % RH		39.0	
Date of Sampling	Sample Receipt Date	Analysis S	tart Date	Analysis E	ind Date
24/02/2023	25/02/2023	27/02/2023		03/03/2023	
Name of Instrument	Handy Sampler	Date of Ca	libration	10/10/	2022
Calibration Certificate No.	SSEC/FF/1517	Due Date of	and the second	19/10/2022 18/10/2023	
	3320/11/131/	Due Date Of	calibration	10/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):	2019	mg/m ³	10	0.529
ulphur Dioxide (SO₂)	IS:5182 (PART 2):	2017	mg/m ³	5	0.009
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018 mg/m		mg/m ³	6	0.012
Note: NAAQS - National Amb PCI – I, New Delhi, the 18th No	ient Air Quality Standards, Cent ovember 2009.	ral Pollution Contr		ation, No. B - 29 hand:	016 / 20 / 9

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1631	REPORT			
GESEC/WZM/2022-23/02/6	52			
GESEC/WZM/2022-23/02/652 Repo		Report Date	03/03/202	23
WORKZONE AIR QUALI	TY MONITORING	RESULTS		
			Sampling wa	as donee by
Suga	ar House			
			Total	Hrs.
12:	30 PM.			
Metrological Data/En	vironmental Con	ditions		
30.0			20.0	
30.0	Relative Humidity % RH		39.0	
Sample Receipt Date	Analysis S	Start Date	Analysis F	nd Date
25/02/2023	27/02/2023		03/03/2023	
Personal Sampler	Date of C	alibration	19/10/	/2022
SSEC/FF/1519			18/10/2023	
Method		Unit	NAAQ Standards	Result
IS:5182 (PART 4):	2019	mg/m ³	10	0.391
IS:5182 (PART 2):2017 mg/m ³		mg/m ³	5	0.008
IS:5182 (PART 6):2018 mg/m ³		6	0.014	
	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana WORKZONE AIR QUALI Samplin Suga Sample Sto 12: Metrological Data/En 30.0 30.0 Sample Receipt Date 25/02/2023 Personal Sampler SSEC/FF/1519 Method IS:5182 (PART 4): IS:5182 (PART 2):	M/s. Kallappanna Awade Jawahar Shetkari S Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolf WORKZONE AIR QUALITY MONITORING Sampling Location Sugar House Sampling Time 12:30 PM. Metrological Data/Environmental Con 30.0 Wet Bulb Te 30.0 Relative Hu Sample Receipt Date Analysis S 25/02/2023 27/02 Personal Sampler Date of C SSEC/FF/1519 Due Date of Method IS:5182 (PART 4):2019 IS:5182 (PART 2):2017	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharash WORKZONE AIR QUALITY MONITORING RESULTS Sampling Location Sugar House Sampling Time Stop Time 12:30 PM. Metrological Data/Environmental Conditions 30.0 Wet Bulb Temperature °C 30.0 Metrological Data/Environmental Conditions 30.0 Wet Bulb Temperature °C 30.0 Personal Sampler Date of Calibration SSEC/FF/1519 Due Date of Calibration SSEC/FF/1519 Method Init IS:5182 (PART 4):2019 mg/m³ IS:5182 (PART 2):2017	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra) WORKZONE AIR QUALITY MONITORING RESULTS Sampling Location Sampling Location Sampling Time Total 12:30 PM. Metrological Data/Environmental Conditions 30.0 Wet Bulb Temperature °C 20 30.0 Wet Bulb Temperature °C 200 30.0 Wet Bulb Temperature °C 20 30.0 Relative Humidity % RH 39 Sample Receipt Date Analysis Start Date Method Unit NAAQ <t< td=""></t<>

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	TEST F	REPORT			
Test Report No: -	GESEC/AAQM/2022-23/03/248 Report Date		Doment Date	e 20/03/202	
Sample ID: -			Report Date	20/03/	2023
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana				
	Ambient Air	Sample Details			
Туре	Samplir	ng Location		Sampling	done by
Ambient Air	Near	Vain Gate		GESI	EC
	Sampli	ng Time			
Start Time	Sto	p Time		Total	Hrs.
10:45 AM.	11:45 AM.			60 Min	
	Metrological Data/En	vironmental Cond	ditions		
Ambient Temperature °C	26.0 Wet Bulb Temperature °C		16.0		
Dry Bulb Temperature °C	26.0	Relative Humidity % RH		34.1	
Date of Sampling	Sample Receipt Date	Sample Receipt Date Analysis Start Date		Analysis E	nd Date
14/03/2023	16/03/2023	16/03	/2023	20/03/2023	
Name of Instrument	High Volume Sampler	Date Of Calibration		19/10/	2022
Calibration Certificate No.	SSEC/FF/1528	Due Date of	Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):	2019	μg/cum	100.00	61.86
Particulate Matter (PM _{2.5})	IS:5182 (PART 24)		μg/cum	60.00	20.90
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):	2017	μg/cum	80.00	13.75
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	μg/cum	80.00	20.40

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



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	TEST R	EPORT			
Test Report No: -	GESEC/AAQM/2022-23/03/249 Rep GESEC/AAQM/2022-23/03/249		Report Date	20/03/	2023
Sample ID: -			Report Date	20/03/	2023
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana				
3.	Ambient Air S	ample Details			
Туре	Samplin	g Location		Sampling	done by
Ambient Air	Nea	nr ETP		GESI	EC
	Samplir	ng Time			
Start Time	Stop	Time		Total	Hrs.
10:55 AM.	11:5	5 AM.		60 Min	
	Metrological Data/Env	ironmental Condi	tions		
Ambient Temperature °C	26.0	Wet Bulb Temperature °C		16.0	
Dry Bulb Temperature °C	26.0	Relative Humidity % RH		34.1	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date
14/03/2023	16/03/2023	16/03/2023		20/03/2023	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration		19/10/	2022
Calibration Certificate No.	SSEC/FF/1525	Due Date of	and the second second second second	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2	2019	µg/cum	100.00	58.33
Particulate Matter (PM2.5)	IS:5182 (PART 24):	2019	µg/cum	60.00	17.65
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	2017	µg/cum	80.00	11.02
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	2018	µg/cum	80.00	16.89

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/ PCI - I, New Delhi, the 18th November 2009.

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	TEST REPORT	•2			
Test Report No: -	GESEC/AAQM/2022-23/03/250	Report Date	20/03/2023		
Sample ID: -	GESEC/AAQM/2022-23/03/250		Report Date	20/03/20	525
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Hupari-Yalgud, Tal: Hatkanangale,			na Ltd.,	
	Ambient Air Sample	Details			_
Туре	Sampling Lo	and some the second		Sampling do	one by
Ambient Air	Near Cane			GESEC	2
	Sampling Tim	e			
Start Time	Stop Ti	Total Hrs.			
11:10 AM.	12:10 PM.			60 Min	
	Metrological Data/Environm	ental Conditions			
Ambient Temperature ^{oC}	27.0	Wet Bulb Temperature °C		16.0	
Dry Bulb Temperature ^{oC}	27.0	Relative Humi	dity % RH	30.3	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis En	d Date
14/03/2023	16/03/2023	16/03/2023		20/03/2023	
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration		19/10/2022	
Calibration Certificate No.	SSEC/FF/1526 Due Date of Calibration		18/10/2023		
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM10)	IS:5182 (PART 4):2019)	µg/cum	100.00	63.36
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):201	9	µg/cum	60.00	21.86
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2017	7	µg/cum	80.00	15.41
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2018	3	µg/cum	80.00	22.78

Remark:-

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



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	TEST REPOR	RT			
Test Report No	GESEC/ST/2022-23/03/251 Report Date		2	0/03/2023	
Sample ID -	GESEC/ST/2022-23/03/251				
	BAZe Kellennen Andelen			Washkasa	
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana				Lta.,
	Sample Deta	ails			
Sample collection Date	Sample receipt Date	Analysis star	t Date	Analysi	s complete Date
14/03/2023	16/03/2023	16/03/20	23	2	0/03/2023
	Instrument De	etails			
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration		17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration		16/10/2023	
	Stack Detai	ls			
Stack No/ID	Stack At	tached to		Sam	oling done by
01	Stack 1 (9	00+20 TPH)			GESEC
Shape	Round	Fuel Use	ed		Bagasse
Diameter/ Dimensions (m)	4.73	Pressur	e		3.00
Height (m)		75			
Temperature (^o C)	135	Velocity (r	n/s)		6.64
Gas Volume (Nm ³ /Hr)		307279.7	79		
Parameters	Method	Unit	Limi	•	Result
Suspended Particulate Matter (SPM)			150	-	38.33
ulphur Dioxide (SO ₂)	IS 11255 (Part 1) 2019	mg/Nm ³	150		15.41
	IS 11255 (Part 2) 2019	mg/Nm ³ Kg/day	-		
Remarks-					

Maharashtra Pollution Control Board (MPCB) Limits: SO2: As per consent.

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	TEST REPORT	ſ			
Test Report No	GESEC/ST/2022-23/03/252 Report Date			20/	/03/2023
Sample ID -	GESEC/ST/2022-23/03/252			-	
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanar	vahar Shetkari Sah ngale, Dist: Kolhap	akari Sakhar ur (Maharasl	Karkhana l htra)	.td.,
8	Sample Detai	ls			
Sample collection Date	Sample receipt Date	Analysis star	t Date	Analysis	complete Dat
14/03/2023	16/03/2023	16/03/20)23	20,	/03/2023
	Instrument Det	ails			
Name Of Instrument	Stack Monitoring Kit	Date Of Calibration		17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration		16/10/2023	
	Stack Detail	s			
Stack No/ID	Stack At	tached to		Samp	ling done by
01	Stack 2 (75 TPH) GESEC				
Shape	Round	Fuel Us	ed	Bagasse	
Diameter/ Dimensions (m)	2.5	Pressu	re		4.00
Height (m)		72			
Temperature (^o C)	130	Velocity (m/s)	7.62	
Gas Volume (Nm ³ /Hr)		99732.9	5		
Parameters	Method	Unit	Lim	nit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³	15	0	35.63
Sulphur Dioxide (SO2)	IS 11255 (Dart 2) 2010	mg/Nm ³	-		12.47
	IS 11255 (Part 2) 2019	Kg/day ·			29.85

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	TEST REP	ORT		
Test Report No: -	GESEC/ANLM/2022-23/03/2	53	Report Date	20/03/2023
Sample ID: -	GESEC/ANLM/2022-23/03/2	53	Report Date	20/03/2023
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana			a Ltd.,
	Ambient Noise Sa	mple Details		
Туре	Ambient Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis End Date
14/03/2023	-			
Name Of Instrument	Digital Sound Level Meter	Date Of (Calibration	17/10/2022
Calibration Certificate No.	SSEC/ME/266	SSEC/ME/266 Due Date of Calibration		16/10/2023
		Average Noise Level Readings		CPCB Standards dB(A)
Test Location	Unit	Day (01:10 P.M.)	Night (10:30 P.M.)	
Near Main Gate	dB(A)	59.4	57.1	During Day time =
Near ETP	dB(A)	63.9	60.5	75 dB (A)
Near Bagasse Section	dB(A)	68.2	67.4	During Night time=
Near Sugar Godown	dB(A)	64.5	62.9	- 70 dB(A)
	dB(A)	68.0	66.7	10 00(11)

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

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10:00 Mr. Vinod Hande

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	TES	T REPORT				
Test Report No: -	GESEC/WNLM/2022-23/03/254			20/02/2022		
Sample ID: -	GESEC/WNLM/2022-23/	/03/254	Report Date	20/03/2023		
	A					
Name & Address of the Customer	M/s. Kallappanna Awad	e Jawahar Shetkari S	ahakari Sakhar Karkl	nana Ltd.,		
Hame & Hauress of the customer	Hupari-Yalgud, Tal: Hat	kanangale, Dist: Kolh	apur (Maharashtra)			
		ise Sample Details				
Туре	Work Zone Noise					
Sampling done by	GESEC					
Standard method	As Per IS: 9989:2020	As Per IS: 9989:2020				
Date of Samuling	Comula Dessint Data	Australia	Charle Date	Analysis Ford Data		
Date of Sampling	Sample Receipt Date Analysis Start Date		Start Date	Analysis End Date		
14/03/2023) ***		
Name of Instrument	Sound Level Meter	Date of	07/10/2022			
Calibration Certificate No.	SSEC/ME/259	Due Date	of Calibration	06/10/2023		
		Average Noise	Average Noise Level Readings			
Test Location	Unit	Day	Night	 The Factories Act 1948 standards 		
		(02:00 P.M.)	(11:15 P.M.)			
Centrifugal Section	dB(A)	78.9	77.0			
urbine Section	dB(A)	85.7	82.2			
3oiler Section	dB(A)	86.0	84.7	≤ 90		
Vill Section	dB(A)	82.5	80.9			
			-			

- Mill Section Pan Section
- Remark-

A The Factories Act, 1948, has prescribed 90 dB (A) as an upper limit of noise level for 8 hours exposure.

dB(A)

P All above results are within Factories Act 1948 Standards.

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	TEST REPORT		
Test Report No: GESEC/WW/2022-23/03/255	Report Date		20/03/2023
Sample ID : GESEC/WW/2022-23/03/255	Sample Deta	ils	ETP Inlet
	Type of Sam	ole	Waste Water
Name & Address of the Customer:	Volume Of S	ample	1 Lit plastic bottle
	Sample Statu	IS	Sealed
M/s. Kallappanna Awade Jawahar Shetkari	Sample Colle	cted By	GESEC
Sahakari Sakhar Karkhana Ltd.,	Date of Sam	ole Collection	14/03/2023
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Sample Rece	ipt Date	16/03/2023
(Maharashtra)	Analysis star	t Date	16/03/2023
	Analysis End	Date	20/03/2023

Parameters	Results	Unit	Standard Method
рН	3.43		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	164.78	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	3562.91	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2514.79	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	1136.10	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	725.96	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	854.77	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	13.00	mg/lit	IS 3025 (Part 39), 2019

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

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

Remark:

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BDL - Below Detectable Limit.

> All parameters are within the MPCB limit.

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TEST	REPORT	
Test Report No: GESEC/WW/2022-23/03/257	Report Date	20/03/2023
Sample ID : GESEC/WW/2022-23/03/257	Sample Details	Factory STP Inlet 50 KLPD
	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
Name & Address of the Customer:	Sample Status	Sealed
M/s. Kallappanna Awade Jawahar Shetkari Sabakari Sakhar Karkhana Itd	Sample Collected By	GESEC
Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Date of Sample Collection	14/03/2023
(Maharashtra)	Sample Receipt Date	16/03/2023
(manarashtra)	Analysis start Date	16/03/2023
	Analysis End Date	20/03/2023

Parameters	Results	Unit	Standard Method
рН	6.26		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	135.74	mg/lit	APHA 2540 D 23rd ED:2017
Total Dissolved Solids (TDS)	1309.87	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	166.98	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	95.74	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl ⁻	362.10	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	251.47	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL – Below Detectable Limit.

All parameters are within the MPCB limit.

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	TE	ST REPORT	1		
Test Report No: GESEC/WW/2022-23/03/258		Report Date	e	20/03/2023	
Sample ID : GESEC/WW/2022-23/03/	Sample Det	ails	Factory STP Outlet 50 KLPD		
	Type of San	nple	Waste Water		
	Volume Of	Sample	1 Lit plastic bottle		
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Shetkari		Sample Stat	tus	Sealed	
Sahakari Sakhar Karkhana Ltd.,	etkall	Sample Coll	lected By	GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur		Date of San	nple Collect	tion 14/03/2023	
(Maharashtra)		Sample Rec	eipt Date	16/03/2023	
ant de		Analysis sta	rt Date	16/03/2023	
		Analysis End Date		20/03/2023	
Parameters	Results	MPCB LIMIT	Unit	Standard Method	
рН	7.58	6.5-8.5		APHA 4500 H+,B 23rd Edition.201	
Suspended Solids (SS)	16.71	100	mg/lit	APHA 2540 D 23rd ED:2017	
Total Dissolved Solids (TDS)	532.40	2100	mg/lit	APHA 2540,C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	44.63	250	mg/lit	IS 3025 (Part 58), 2019	
Biochemical Oxygen Demand (BOD)	17.94	100	mg/lit	IS 3025 (Part 44), 2019	
	87.63	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 20	
Chlorides as Cl ⁻	Distante estat			APHA 3025 (Part 24) ;2019	
Chlorides as Cl ⁻ Sulphates as SO ₄	58.10	1000	mg/lit	APHA 3025 (Part 24) ;2019	

BDL – Below Detectable Limit.

All parameters are within the MPCB limit.

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TES	TREPORT	
Test Report No: GESEC/WW/2022-23/03/259	Report Date	20/03/2023
Sample ID : GESEC/WW/2022-23/03/259	Sample Details	Colony STP Inlet 100 KLPD
	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Shetkari	Sample Status	Sealed
Sahakari Sakhar Karkhana Ltd.,	Sample Collected By	GESEC
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Date of Sample Collection	14/03/2023
(Maharashtra)	Sample Receipt Date	16/03/2023
	Analysis start Date	16/03/2023
	Analysis End Date	20/03/2023

Parameters	Results	Unit	Standard Method
pН	6.12		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	117.42	mg/lit	APHA 2540 D 23rd ED:2017
Total Dissolved Solids (TDS)	1356.19	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	191.41	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	102.47	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	215.96	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄	174.50	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	mg/lit	IS 3025 (Part 39), 2019

Remark:

P BDL - Below Detectable Limit. >

All parameters are within the MPCB limit.

Engineers IROS. ***END OF REPORT** Sultant Pvt.

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Mr. Vinod Hande

(Technical Manager) **Reviewed & Authorized By**

Terms and conditions

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- The report is refer only to the sample tested and not applies to the bulk.
- The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.
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 - MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024.



A-7/2/C-11, Capital City, Talwade - Chakan Road, Chakan MIDC, PH-IV. Village Nighoje, Tal. Khed, Dist. Pune-410 501, Maharashtra. Mob+ 9545084620, 8421365421 CIN No. : U74900PN2013PTC149666 E-mail : environsafetyeng@gmail.com, gesec12@gmail.com

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

	TES	ST REPORT				
Test Report No: GESEC/WW/2022-23/03/260		Report Date			20/03/2023	
Sample ID : GESEC/WW/2022-23/03/2	60	Sample Det	ails		Colony STP Outlet 100 KLPD	
	Type of Sample			Waste Water		
	Volume Of S	Sample		1 Lit plastic bottle		
Name & Address of the Customer:	Sample Stat	us		Sealed		
M/s. Kallappanna Awade Jawahar She Sahakari Sakhar Karkhana Ltd.,	Sample Collected By			GESEC		
Hupari-Yalgud, Tal: Hatkanangale, Dis	t: Kolhanur	Date of Sample Collection			14/03/2023	
(Maharashtra)		Sample Receipt Date			16/03/2023 16/03/2023	
(Manarashtra)		Analysis sta	ysis start Date			
		Analysis End	d Date		20/03/2023	
Parameters	Results	MPCB LIMIT	Unit		Standard Method	
рН	7.48	6.5-8.5		AP	HA 4500 H+,B 23rd Edition.2017	
Suspended Solids (SS)	16.09	100	mg/lit		APHA 2540 D 23rd ED:2017	
Total Dissolved Solids (TDS)	611.84	2100	mg/lit	A	PHA 2540,C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	48.73	250	mg/lit		IS 3025 (Part 58), 2019	
Biochemical Oxygen Demand (BOD)	19.50	100	mg/lit		IS 3025 (Part 44), 2019	
Chlorides as Cl ⁻	102.69	600	mg/lit	APH	HA 4500 Cl- B,23rd Edition, 201	
Sulphates as SO4	82.31	1000	mg/lit		APHA 3025 (Part 24) ;2019	
Oil & Grease	BDL	10	mg/lit		IS 3025 (Part 39), 2019	

Remark:

BDL - Below Detectable Limit. Þ

> All parameters are within the MPCB limit.

GREEN ENLIROSA Engineers ***END OF REPORT

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- MoEF approved Lab by Govt. of India. From date. 16/02/2022 to 29/02/2024. 6.

Samples will be retained for a period of seven (7) days after completion of analysis. Longer retention periods can be arranged, on request of the customer. 4.



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		REPORT			
Test Report No: -	GESEC/WZM/2022-23/03/2		Demont Det	Report Date 20/03/2023	
Sample ID: -	GESEC/WZM/2022-23/03/2	61	Report Date		
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana	wahar Shetkari Sa angale, Dist: Kolha	ahakari Sakhar I apur (Maharash	Karkhana Ltd., tra)	
	WORKZONE AIR QUALIT	Y MONITORING F	RESULTS		
Туре		ng Location		Sampling	done by
Ambient Air		Section		GES	
	Sampli	ng Time		010	
Start Time	Sto	p Time		Total	Hrs.
11:20 AM.	12:	20 PM.	П	60 N	Salah Bal
	Metrological Data/Env	/ironmental Cond	itions		
Ambient Temperature ^{oC}	32.0			12.0	
Dry Bulb Temperature ^{oC}	32.0	Relative Humidity % RH		32.0	
Data of Consultan					
Date of Sampling	Sample Receipt Date	Analysis St		Analysis E	ind Date
14/03/2023	16/03/2023	16/03/	2023	20/03/2023	
Name of Instrument	Handy Sampler	Date of Ca	libration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1517	Due Date of		18/10/	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2	2019	mg/m ³	10	0.487
ulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	2017	mg/m ³	5	0.010
Dxides of Nitrogen(NO _x)	IS:5182 (PART 6):2018 mg/m ³		6	0.013	

GREEN ***END OF REPORTATION

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ESEC/WZM/2022-23/03/26		Report Date		
FSFC/W/7M/2022-23/03/20	2011	- Donort Dato	20/02/2022	
GESEC/WZM/2022-23/03/262 Re		Report Date	20/03/202	3
1/s. Kallappanna Awade Jav lupari-Yalgud, Tal: Hatkana	wahar Shetkari S angale, Dist: Kolh	ahakari Sakhar K apur (Maharash	arkhana Ltd., tra)	
WORKZONE AIR QUALIT	Y MONITORING	RESULTS		
Samplin	ng Location		Sampling wa	s donee by
Sampli	ing Time			
Stor	p Time		Total	Hrs.
12:3	30 PM.		60 N	Ain
Metrological Data/Env	vironmental Con	ditions		
32.0	Wet Bulb Ter	nperature °C	12.0	
32.0	Relative Humidity % RH		32.0	
Sample Receipt Date	Analysis S	tart Date	Analysis F	nd Date
16/03/2023				
Personal Sampler	Data of C	lihustisa	10/10/	
	Due Date of	canoration	10/10/	2025
Method		Unit	NAAQ Standards	Result
IS:5182 (PART 4):2	2019	mg/m ³	10	0.374
IS:5182 (PART 2):2	2017	mg/m ³	5	0.007
IS:5182 (PART 6):2	2018	mg/m ³	6	0.012
	Hupari-Yalgud, Tal: Hatkana WORKZONE AIR QUALIT Samplir Suga Sampli Sto 12: Metrological Data/En 32.0 32.0 Sample Receipt Date 16/03/2023 Personal Sampler SSEC/FF/1519 Method IS:5182 (PART 4): IS:5182 (PART 2):	Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolh WORKZONE AIR QUALITY MONITORING Sampling Location Sugar House Sampling Location Sugar House Sampling Time Stop Time 12:30 PM. Metrological Data/Environmental Constant 32.0 Wet Bulb Ter 32.0 Sample Receipt Date Analysis S 16/03/2023 16/03, Personal Sampler Date of Ca SSEC/FF/1519 Due Date of	Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashi WORKZONE AIR QUALITY MONITORING RESULTS Sampling Location Sugar House Sampling Time Stop Time 12:30 PM. Metrological Data/Environmental Conditions 32.0 Wet Bulb Temperature °C 32.0 Sample Receipt Date Analysis Start Date 16/03/2023 Personal Sampler Date of Calibration SSEC/FF/1519 Unit IS:5182 (PART 4):2019 mg/m³ IS:5182 (PART 2):2017	Sampling LocationSampling was Sugar HouseSampling was GESSampling TimeGESStop TimeTotal 12:30 PM.12:30 PM.60 NMetrological Data/Environmental Conditions60 N32.0Wet Bulb Temperature °C32.0Relative Humidity % RH32.0Relative Humidity % RH32.016/03/202320/03/16/03/2023Personal SamplerDate of CalibrationPersonal SamplerDue Date of CalibrationMethodUnitMethodNAAQ StandardsIS:5182 (PART 4):2019mg/m³15:5182 (PART 2):2017mg/m³

ENVIROSAA GREEN PUNE ***END OF REPORT ers & Consul

Ltd

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

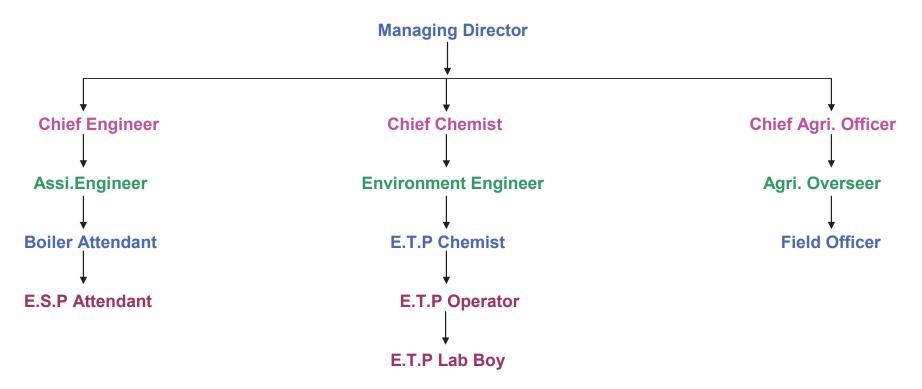
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Annexure – V Environment Management Cell (EMC)

Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari

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

Environmental Management Cell



Annexure – VI Photographs of Greenbelt & List of plants











कल्लाप्पाण्णा आवाडे जवाहर शेतकरी सहकारी साखर कारखाना लि.,

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

फोन (०२३०) २४५०४०२, ई - मेल : kprjsssk@gmail.com वेबसाईट : www.jawaharsugar.com

कारखाना कार्यस्थळांवर असलेल्या विविध झाडांची माहिती

सन २०२३

अ.नं.	तपशील	संख्या
अ)	फळझाडे	
٩	नारळ	ξοҘ
ર	आंबा	340
ş	चिक्कू	94६
	एकूण -	9908
ब)	जंगली झाडे	
٩	रेनट्री	3000
ર	कॅशिया	9042
ş	चिंच	50
8	कदंब	90
ч	सुबाभूळ	د\$ه
દ્વ	बदाम	୪६
9	सप्तपर्णी	32
٢	चंदन	89
8	सागवान	98
90	सुरू	9000
99	निंब व इतर	3096
٩२	ट्यूबोबीया	9२
93	पळस	98
98	गोरमचिंच	442
94	सिल्वर ओक	2000
9६	स्पॅथोडीया	38
90	वड	60
9८	पिंपळ	924
98	निलमोहर	83
20	बहावा	980
29	गुलमोहर	808
22	कांचन	933
23	निलगीरी	3930
28	उंबर	६२
રપ	फणस	94
રદ્	बेल	y
20	ऑस्ट्रेलियन साग	300

		08/2023
अ.नं.	तपशील	संख्या
22	गूळभेंडी	400
28	करंज	2238
Şо	जांभूळ	900
39	प्लेटोफोरम	२५०
રૂર	बांबू	३०६३४
33	काटेसावर	320
	एकूण	ૡ૱૱૱
क)	शोभीवंत झाडे	
9	बॉटल पाम	90
2	अशोक	603
ş	मोरपंखी	90
8	फायकस	62
ч	बोगनवेली	9880
દ્	एक्झोरा	29
6	चाफा	43
۷	आरेकापाम	୪३୨६
	एकूण -	ୡଡ଼୳୳
ड)	फूलझाडे	
9	गुलाब	200
2	इतर फुलझाडे	୪७२६
3	शोभीवंत कुंड्या	308
8	कणेरी	୧६७୦
ч	शंकासूर	380
	एकूण -	୵ଽ୪ଽ
	समरी	
अ	फळझाडे	9909
ब	जंगली झाडे	43293
क	शोभीवंत झाडे	ୡଡ଼୳୳
ड	फूलझाडे	୵ଽ୪ଽ
	एकूण -	£ \$20\$

दि. १०/०४/२०२३

मुख्य शती अधिकारी

KALLAPPANNA AWADE JAWAHAR S S S KARKHANA LTD;

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

Date - 10/04/2023

Karkhana site Tree Plantation Details

Sr.No	Particulars	Nos of Tree
Α	Fruit Plant	
1.	Coconut	603
2.	Mango	350
3.	Chikku	156
	Total	1109
В	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	
21.	Gulmohar	140
22.	Kanchan	409
23.	Nilgiri	133
24.	Umber	3930
25.	Phanas	62
26.	Bel	15
27.	Australian babul	05
30.	Gul bhendi	300
31.	Karanj	507
32.	Jambhul	2239
33.	Paletoforum	100
34.	Bambu	250
35	Katesawar	30634
		320
	Total	53213

KALLAPPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.,

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

Sr. No	Survey No.	Place	Area (Acres)
1	1258	Harvesting workers staying yard	22.36
2	315/8,9	Colony area	10.00
3	315/11	Caneyard 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)	2.51
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	98.7

AREAWISE TREE PLANTATION INFORMATION

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Sr.No	Particulars	Nos of Plant
С	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

A Fruit Tree	1109
B Forest Tree	53213
C Decorative Tree	6715
D Flower Tree	8242

Chief Agri. Officer

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