JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

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

Ref. No. MFG/ ETP / 69 86 /2023

Date: - 23/11/2023

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

Sub:

Submission of Six Monthly Environment Compliance report for period April 2023 to September 2023 w.r.t 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 April 2023 to September 2023.

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

Thanking you,

Yours Faithfully,

(M.G.Joshi) Managing Director

Encl. - As above

Copy for information to:-

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

GOVERNMENT OF MAHARASHTRA

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

Dated: 27 AUG 2007

To.

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

Sub: Environment clearance.

Sir.

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

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

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

ENCL : As above.

(Surendra Jadhav)
Deputy Secretary to Government

Yours faithfully,

- 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.
- 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 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.
- 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

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

- 10. The process emissions shall meet the standards prescribed by MPCB. At no time, the emissions should be beyond the standards. The respective units which exceed the standard should be put out of order immediately and should not be restarted until the control systems are rectified.
- 11. The solid waste shall be treated and disposed off as prescribed in the authorization certificate granted by MPCB in accordance with the Hazardous Waste (Handling and Management) Rules, 1989 (wherever applicable)
- 12. The Project Authority shall take precautions so as to reduce other types of environmental problems like noise, odour, thermal / heat and radio activity etc. (if applicable).
- 13. The Project Authority shall set up environment management cell with a suitably qualified staff, to carry out various functions of the environment management. The Environment Management Plan should be prepared by the project authority shall also earmarked submitted to MPCB. The Project Authority shall also earmarked funds for the Environment Management Cell and same shall not be diverted for any other purpose. The Project Authority shall prepare environment statement every year and copy of the same should be submitted to the MPCB.
- 14. The cases of any disaster / accident / mishap due to handling raw materials, process, plant and machinery or finished products, the Project Authority shall be personally, jointly and severally be responsible for the event.
- 15. Tree plantation programs should be undertaken at the rate of not less than 2500 trees per 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 expity 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.

Six monthly (Period April 2023- September 2023) Compliance reports for M/s. Jawahar Shetkari Sahakari Sakhar Karkhana Ltd for Co-gen Unit of capacity 28.5 MW

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
1	Condition No.1 The Project Authority shall take adequate safety precautions in handling the raw materials, plant and machinery and the products of the processes so as to avoid any damage/ less of lie of property or environment.	Adequate safety measures for handling the raw material, plant and machinery are taken. Employees are provided with PPEs kits. Bagasse which is used as fuel for boiler is 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.	No hazardous chemicals are being used in the process. The workers engaged in handling operations are provided with necessary Personal Protective Equipment's (PPEs) like safety helmet, shoes, goggles, face mask, dust mask, hand gloves, welder goggles, earmuffs, safety belts etc. Regular training is important for workers who are handling the hazardous / dangerous raw materials, finished products or processes etc. Moreover, annual health checkup of all workers is done through authorized and qualified doctor and records are maintained. Latest health checkup report dated

No.	Environmental Clearance Conditions	Compliance towards the Conditions
		Stipulated
		02.09.2022 to 01/09/2023 is enclosed at
		Annexure-II.
3	Condition No.3	
	The Project Authority shall prepare the on-	Risk Assessment Report have already
	site disaster management plan and should	prepared for entire project complex.
	submit to the Director, Industrial Safety	Therein, identification of hazard and
	and Health. The copies of which shall also	migration measures have been suggested.
	be submitted to the District Collector,	Moreover, the fire hazard areas like bagasse
	Local Authority, Maharashtra Pollution	storage yard, switch yard etc. have been
	Control Board (MPCB) and the	provided with appropriate firefighting
	Environment Department, Government of	arrangement. Periodic mock drills are
	Maharashtra. The Project Authority shall	conducted for imparting training on
	submit the information to the Director,	handling hazardous situations and handling
	Industrial Safety and Health for	of firefighting equipments. Photographs of
	preparation of the off-site disaster	Firefighting system and Mock drill is
	management plan. The Project Authority	enclosed at Annexure I .
	should carry out periodical rehearsal of the	
<u> </u>	on-site disaster management plan.	
4	Condition No.4	
	The Project Authority shall comply with	Not applicable. Since electricity generated
	all statutory requirements for safe	is directly fed to MSEB grid.
	transportation of raw materials/ finished	
	products in case of trucks/tankers carrying	
	hazardous raw material shall be washed	
	and cleaned up within the plant premises,	
_	so as to ensure no pollution in the vicinity.	
5	Condition No.5	In the Co can plant allocations in a second
	The Project Authority shall be use cleaner	In the Co-gen plant electricity is generated
	technology for the manufacturing process	using steam from boiler. Bagasse is used as
	and the clean fuel for the operations so as	fuel for steam generation, which is one of
	to reduce process waste, liquid effluents	the process waste of sugar factory.
	and gaseous emissions.	Moreover, excess condensate water from
		sugar factory is used in process.

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
6	Condition No.6 The Project Authority shall treat the liquid effluents so as to conform 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.	The effluent generated from the Co-gen plant operation is forwarded to the sugar factory ETP. The same is treated in state of art effluent treatment plant. The treated effluent is used for gardening and the development of green belt in own factory premises. OCMS is installed for ETP. Moreover, STPs of capacity 100 KLPD and 50 KLPD has been installed on-site for the 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 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 excessive effluent (impervious storage tank etc.) in	No effluent is discharged outside industrial premises. The treated effluent is being recycled and use for gardening in premises. An online monitoring system as well as a 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.

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	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, an 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 control systems are rectified.	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 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.

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
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 sources are Boilers, Turbines, D.G. Set, etc. The overall noise level in around the plant area are maintained within the standards prescribed under the 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 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.	Noted.
15	Condition No. 15 Tree plantation programs should be undertaken at the rate of not less than 2500 trees per ha on the factory land, in consultation with the Forest Department of	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

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
	the state Government and MPCB.	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 the 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 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 the development of Green belt purposes 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:-

1) 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 °C.
- 2) ID, FD, SA and BFW winding temperature greater than 90 °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/cm².
- 6) Main steam Temperature 500 °C.
- 7) Main steam pressure greater than 90 kg/cm².
- 8) Main steam Temperature 529 °C.
- 9) Deareator level less than 60%
- 10) Deareator level greater than 90%
- 11) Deareator Temperature less than 105 0 C.
- 12) Deareator Temperature greater than 112 °C.

Turbine Interlock System

Turbine Tripping Interlock:-

- 1) Lube oil pressure less than 1.8 kg/cm².
- 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 °C.
- 6) Turbine inlet pressure greater than 99 kg/cm².
- 7) Turbine inlet temperature greater than 543 °C.
- 8) Exhaust steam temperature less than 120°C.
- 9) Exhaust steam Temp. between 105 °C and 120 °C. 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 1 year 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 1 year 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 $^{\rm o}$ C to 543 $^{\rm o}$ 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	НН	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 °C.
2	Turbine Thrust non active top bearing Temp.	95 ⁰ C.	100 °C.
3	Turbine Front Bearing Temp.	110 °C.	120 °C.
4	Turbine Rear Bearing Temp.	110 °C.	120 °C.
5	Turbine active bearing Bottom Temp.	95 ⁰ C.	100 °C.
6	Turbine non active bearing Bottom Temp.	95 ⁰ C.	100 °C.
7	Gear box High speed front bearing Temp.	100 °C.	107 °C.
8	Gear box High speed rear bearing Temp.	100 °C.	107 °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 ºC.

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

SR	SENSOR	ALARM	TRIP
NO			
1	Alternator Front Bearing Temp.	85 ⁰ C.	95 °C.
2	Alternator Rear Bearing Temp.	85 ⁰ C.	95 °C.
3	Alternator Winding Temp. (U1)	125 °C.	130 °C.
4	Alternator Winding Temp. (V1)	125 °C.	130 °C.
5	Alternator Winding Temp. (W1)	125 °C.	130 °C.
6	Alternator Winding Temp. (U2)	125 °C.	130 °C.
7	Alternator Winding Temp. (V2)	125 °C.	130 °C.
8	Alternator Winding Temp. (W2)	125 °C.	130 °C.
9	Inlet air Temp1 (Not Trip)	50 °C.	55 °C.
10	Outlet air Temp1 (Not Trip)	80 ºC.	85 °C.
11	Inlet air Temp2 (Not Trip)	50 ⁰ C.	55 °C.
12	Outlet air Temp2 (Not Trip)	80 ⁰ C.	85 °C.
13	Alternator Core-1 Temp.	125 °C.	130 °C.
14	Alternator Core-2 Temp.	125 °C.	130 °C.
15	Alternator Core-3 Temp.	125 °C.	130 °C.
16	Exciter Field Temp.	125 °C.	130 °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/cm² 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 °C then auto open valve.
- 2) Exhaust temperature less than 55 °C 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/cm² 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

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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	0				nent of ork	Date of leaving or transfer to other wor	Reason for leaving Transfer of discharg	job or	rial or bye	te	Medical	ed from period of with	it to ty on with of Surgeon	te of issued to	with gate a surgeon.
Sr. No.	Emp. No.	Name	And	Sex	Dept of employement of present work	Date of leaving or transfer to other w	Reason for leaving Transfer of dischar	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 wit signature of Certifying Surgeon	If Certificate of unfittees or suspention issued worker	9 E
1	2304	MR. ASHOK S NALLAWADE	42	2 M	j.**	NA	NA		13.	02/09/2022	Fit	NA NA	Fit	vA	0 3
2	6023	MR. AKASH A BODHALE	ВС	0 M	75.	NA	. NA			02/09/2022	Fit	NA	Fit	i A	-
3	1817	MR. JAWAHAR B MALI	47	7 M	14	NA	NA			02/09/2022	Fit	NA	Fit	1)A	
4	7362	MR. MANOJ B KARAKE	31	1 M	4 2 4 9	NA	NA:			02/09/2022	Fit	NA	Fit	HA	
5	1099	MR. KAMLAKAR B SUTAR	52	2 M	• 4	NA	NA .			02/09/2022	Fit	NA	Fit	NA NA	
6	0334	IMR. ARUN D PATI	\$8	3 M	-	NA	NA	-		02/09/2022	Fit	NA NA	Fit	NA NA	
7	2030	IMR. SUNIL M KIRUNGI	32	2 M	-	NA	NA			02/09/2022	Fit	NA NA	Fit		
8	1346	IMR. PARGONDA N PATIL	\$1	M	-	NA ·	NA	-		02/09/2022	Fit	NA NA	Fit	NA NA	
9	7451	MR. HEMANT R PATIL	16	M	•	NA	NA			02/09/2022	Fit	NA NA	Fit		
10	0853	MR. IQBAL A ATTAR	49	M	-	NA	NA			02/09/2022	Fit	· NA		NA	
11	2066	MR. BHIMRAO M VAJANTRI	\$7	M		NA NA	NA NA			02/09/2022	Fit		Fit	NA NA	
12		MR. JAGDISH K PATIL	48	M		NA NA	NA .			02/09/2022		NA NA	Fit	NA	
13	0308	MR. SARDAR S ROHILE	56		-	NA NA					Fit	NA	Fit	NA	
14		MR. SARDAR S MOMIN	49		2		NA NA			02/09/2022	Fit	NA	Fit	NA	
15			+	-		NA	NA			02/09/2022	Fit	NA	Fit	1 NA	- 4
16			52 56		•	NA	NA .			02/09/2022	Fit	NA	, Fit	XX	1
7		MR. RIZWAN B BEDKALE	-			NA	NA			02/09/2022	Fit	NA	Fit	(NA	
18			4#	M		NA	NA	2"		02/09/2022	Fit	NA ·	Fit C	M	
-		.m.	33	M	. 25	NA	NA	11		02/09/2022	Fit	NA	Fit	CAN	\supset
19	7364	MR. MALLU B AMALE	24.	. M -	. * *	NA	NA :		9	02/09/2022	Fit	NA DE	ARVIND	AN WAR	
								.				MMC	M.B.B.S., D.P.H. REGD. NO.	Da.F.I. 1. (MUM .: 201 D/10/B	176
22	Page 1 of	f 66	-				34.5			- 6		cont.	F INDIA-DGFA	SLI REGD. NO	02388

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

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

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

T			1										·9.	
Етр. 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 ocertifying surgeon.
1583	MR. UTTAM S MANGALE	52	M	#6 E1:	NA	NA			02/09/2022	Fit	NA	Fit	NA	F 01 0
7308	MR. PANKAJ S SHINDE	23	М	- Ally	NA	NA			02/09/2022	Fit	NA	Fit	NA .	
1234	MR. SURESH L POL	49	М	-	NA	NA			02/09/2022	Fit	NA	Fit	NA !	-
7254	MR. PRATHAMESH CHOUGULE	23	M		NA	· NA			02/09/2022	Fit	· NA·	Fit	NA	
1719	MR. AMOL A PATIL	43	М	•	NA	NA			02/09/2022	Fit	NA	Fit	NA	-
1475	MR. SUNIL A TASHILDAR	53	М	- 1	NA	NA			02/09/2022	Fit	NA	Fit	NA NA	-
1777	MR. SANJAY K BADBADE	40	М		NA	NA	1		02/09/2022	Fit	NA.	Fit	NA .	1
1469	MR. ABHAY B PATIL	48	М	- 1	NA	NA			02/09/2022	Fit	NA	Fit	NA NA	
1967	MR. TUKARAM M CHAVAN	39	М		NA	NA			02/09/2022	Fit	NA	Fit	NA ,	
0073	MR. MAHAVIR A BARWADE	59	М		NA	NA			02/09/2022	Fit	NA	Fit	NA	
1884	MR. SANTOSH A KOLI	37	М		NA	NA			02/09/2022	Fit	NA	Fit	NA	
6032	MR. PRAVIN B GURAV	30	М.	- 1	NA .	NA			02/09/2022	Fit	NA	Fit	NA :	
0948	MR. RAJENDRA KOLHAPURE	58	M		NA:	NA		The same of the sa	02/09/2022	Fit	NA	Fit	. NA	
1816	MR. DAYANAND A KAMBLE	40	M	• 1	NA	NA			02/09/2022	Fit	NA	Fit	/NA	Jan .
2028	MR. SOPAN B BIRJE	32	М	- h	NA	NA			02/09/2022	Fit	NA	Fit	NA /	
0954	MR. BALU S MALI	52	И	•	NA	NA			02/09/2022	Fit	· NA	Fit	NA	
0623	MR. SHIVAJI K KOLI	52.	М	- 1.	NA	NA			02/09/2022	Fit	NA	Fit	, NA	
2134	MR. MOHAN J HEGADE	55	М	• -	NA	NA .			02/09/2022	Fit	NA ·	梅心	- JUA	1
0934	MR. DASHARATH N BAGAL	48	М	• .	NA	NA			02/09/2022	Fit	Mr. A	RVIND B.B.S., D.P.H.A	A. WA	2
					100					- A	A GAAC G	B.B.S., D.P.H.A REGD. NO. : INDIA-DGFASI	2010/10/3	1/0
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Consultant Industrial Health Physician

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

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

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

Sr. No.	Епр. 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.
9	0652	MR. VIRAPPA B BHANSE	56	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA.	
0	0996	MR. RAKESH D MALI	49	М	-231	NA	NA			02/09/2022	Fit	NA	Fit	NA:	
1	6068	MR. KALPESH K KAPASE	33	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2	0931	MR. SHAMRAO M MOHITE	54	M	• . •	NA	NA			02/09/2022	Fit	NA	Fit	NA	
3	7290	MR. BHUSHAN J NARWADE	26	M	:	NA	NA		4.	02/09/2022	Fit	NA	Fit	NA	
4	1725	MR. BAPUSO D VANI	48	M	•	NA	NA			02/09/2022	Fit	NA	Fit	NA	
5	7230	MR. ADESH A YADAV	24	М	× 1	NA ·	· NA			02/09/2022	Fit	NA	Fit	NA	
6	1687	MR. SHREANSH PATIL	50	М	** Ye	NA	NA			02/09/2022	Fit	NA	Fit	NA	
7	1261	MFL SANDEEP B PATIL	42	М	- 1	NA	NA			02/09/2022	Fit	NA	Fit	NA	
8	2254	MR. SACHIN P KHOT	27	М	- 1	NA	NA			02/09/2022	Fit	NA	Fit	NA	
9	6012	MR. S M KOIK	29	М	- e- l	NA	NA			02/09/2022	Fit .	NA	Fit	NA	
0	2180	MR. RUTURAJ M INAMDAR	30	М	- 19	NA.	NA.			02/09/2022	Fit	NA	Fit	NA	
1	1569	MR. SUNIL S SHETKE	52	M		NA	NA	1		02/09/2022	Fit	NA	Fit	NA J	
2	1694	MR. SHREEDHAR PATIL	47	М	•	NA	NA	7		02/09/2022	Fit	NA	Fit) NA	
3	1351	MR. AKBAR M MOKASHE	54	М		NA	· NA	-		02/09/2022	Fit	ŅA.	Fit /	NA	
4	-1834	MR. DAVAL M SHAIKH	-	М		NA	NA		1	02/09/2022	Fit	NA	Fit	/NA/	
5	2300	MR. VITTHAL D RANDIVE	_	M		NA	NA .			02/09/2022	Fit	NA	/ pa	KNA	
6	0968	MR. RAJENDRA D KORADE		M		NA	NA		_	02/09/2022	Fit	NA (JEN C	NA)	
57.	1894	MR. GANGADHAR AADNANE	_	М		NA	NA .			02/09/2022	Fit	Mr. A	RIMAR	A. MANI	005 123
	i a											MMC F	EGD. NO.:	E.I.H. (MUMB/ 2010/10/317 I REGD. NO0	N) 6

Consultant Industrial Health Physician

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

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

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

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Sr. No.	Етр. 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	unfitness or suspention issued to worker Signature with gate of certifying surgeon.
58	0915	MR. POPAT D KAMBLE	57	М	* =	NA	NA :			02/09/2022	Fit	NA	Fit	NA
59	7019	MR. BALASO B KOLAJ	36	М	-	NA	NA ·		*	02/09/2022	Fit	NA	Fit	NA
60	7026	MR. ABHIJIT B PATIL	27	M		NA	NA			02/09/2022	Fit	NA	Fit	NA
61	1367	MR. KIRAN I BHARMAL	47	M	1	NA .	NA '			02/09/2022	Fit	NA	Fit	NA
62	1071	MR. KUBER S GOURAI	54	M	*	NA	NA			02/09/2022	Fit	NA	Fit	NA
63	0994	MR. LAXMAN S LALI	51	M	•	NA	NA			02/09/2022	Fit	NA	Fit	ŅΑ
64	0936	MR. SANJAY B JADHAV	55	М		NA	NA		19	02/09/2022	Fit	NA	Fit	NA
65	1692	MR. MUSTAK A NAYANI	51	М	-	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 M
67	1823	MR. ARVIND P KAKADE	52	М	j. į	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	ŅA
69	- 7531	MR. S M MHETRE	24	M	•	NA	NA .			02/09/2022	Fit	NA	Fit	NA .
70	2247	MR. ANIL D SUTAR	33	M		· NA	NA		*	02/09/2022	Fit -	NA	Fit	NA NA
71	6009	MR. PAVANKUMAR B PATIL	31	М	•	NA	NA			02/09/2022	Fit	NA	Fit	NA
72	1819	MR. SHANKAR S GAWADE	45	M	1/2	NA	NA			02/09/2022	Fit	NA	Fit	/ VA/
73	7542	MR. ANURAGH A PATIL	21	М		NA	NA			02/09/2022	Fit	NA	Fit	NA
74	1978	MR. FIROJ M KALAWANT	36	M	•	NA	NA .		3.0	02/09/2022	Fit	NA	PA	CNA
75	0951	MR. MAHADEV S PATIL	59	-		NA	NA :			02/09/2022	Fit	NA	Fit	7
76	7514	MR. SAJID B JAMADAR	27	M	1.0	NA	NA			02/09/2022	Fit	NOr.	ARVIND	A. MANE
70	7511		1									MMC	REGD. NO.	A.F.I.H. (MUMBAI) 2010/10/3176
	Page 4 d	of 66	+			-					10			LI RESD. NO02388 Health Physician

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Consultant Industrial Health Phys

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

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

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	М		NA	NA	1		02/09/2022	Fit	NA	Fit	NA .	
6011	MR. DADASO S KUMBHAR	36	М	s 7.4 175	NA	NA			02/09/2022	Fit	NA	Fit	NA :	-
1665	MR. ABHIJEET S KUMBHAR	42	М	•	NA	NA			02/09/2022	Fit	NA	Fit	NA :	
7005	MR. NITIN N SHINDE	28	М		NA .	NA '	1 4	1	02/09/2022	Fit	NA	Fit	NA !	
7010	MR. UTTAM K KHOT	32	М	•	NA	NA	178.	-	02/09/2022	Fit	NA	Fit	NA	
1896	MR. SANJAY G KAMBLE	58	М	1. I.	NA	NA		-	02/09/2022	Fit	NA	Fit	NA	
1437	MR. SADIK I MUJAWAR	53	М		NA	NA	i		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	• 5,	NA	NA		٠	02/09/2022	Fit	NA	Fit	NA	
6042	MR. SURAJ D PATIL	30	М	-	NA	NA -	1		02/09/2022	Fit	NA	Fit	NA ,	
7139	MR. AKBAR B FARID	29	М	4 7 0	NA	NA			02/09/2022	Fit	NA	Fit	NA g	
1454	MR. ARUN A MALAGE	47	М	-	NA	NA			02/09/2022	Fit	NA	Fit /	/ NA/	
. 0998	MR. KUNTINATH VANDURE	51	М	•	· NA	. NA	•		02/09/2022	Fit	NA	Fit.	NA /	
2132	MR. RAMESH A BANNE	35	М	- 1	NA	NA ·			02/09/2022	Fit	NA	Fit	NA	
1832	MR. AMAR B PATIL	45	М	• .	NA	NA			02/09/2022-	Fit	NA	Fit	NA ·	
1444	MR. PRAKASH M SHENAVI	49	М	· = 7	- NA	NA	1/2		02/09/2022	Fit -	NA	- MO	NA	
2294	MR. SACHIN A KAMBLE	33	М	- 7.7	NA	NA	. 4		02/09/2022	Fit	NOT.	ARWIND	A. MAN	ess ess A.1)
Dans F	,										MMC	B.B.S., D.PH.A REGD. NOV: INDIA-DGFASI	2010/10/31	76

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GOVY. OF INDIA-DGFASLI REGD. 1/O.-02388 Consultant Industrial Health Physician

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

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

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 suspention 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	M		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	М	- n	NA	NA	i		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			02/09/2022	Fit	NA	Fit	NA -	
1018	MR. BAPUSO B DHONGADE	53	М	- 1	NA	NA	1		02/09/2022	Fit	NA	Fit	NA	
1240	MR. ARUN K PATIL	45	М	- 1	NA	NA			02/09/2022	Fit	NA	Fit	NA I	
2170	MR, SURAJ SHIRDHONE	29	М	- 1	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	М	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
0607	MR. B R KHOT	59	M		NA	NA			02/09/2022	Fit	NA	Fit	NA	
7365	MR, PRASAD V BADIGER	26	М	•	NA	NA			-02/09/2022	Fit	NA	Fit	// NA	A
7134	MR. PAVANKUMAR A HEGADE	24	М	- 11	NA	NA	8, 8		02/09/2022	Fit	NA	Fit.	NA /	
7073	MR. TUSHAR PATIL	-	М	1	NA	NA	1		02/09/2022	Fit	NA	Fit	NA	
	MR. AVINASH M VASWADE		M		NA	NA ·			02/09/2022	Fit	NA	/pit/	C NA	
7146			M		NA	NA		ļ	02/09/2022	Fit	NA	Pit C	NA	
1652	MR. B A MAYAPPANAWAR		M.		NA	NA	1		02/09/2022	Fit	NADI	ARVIN	DANNA	NE
2187	MR. RAJENDRA S NIRMALE	44	M.		- NA	INA	+	-			D an ad	M.B.B.S., D.P.	H.A.F.I.H. (MU): 2010/10/	MBAI)

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Consultant Industrial Health Physician

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

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

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

Sr. No.	Emp. No.	Name	Age	Sex	Dept of employement of present work	Date of leaving or transfer to other wor	Reason for leaving Transfer of discharg	Nature of job or occupation	Raw material or bye product handled	Exam. Date	Result of Medical Examination	If suspended from work, state period of suspension with detailed reasons	Certified fit to resume duty on with signature of Certifying Surgeon	If Certificate of unfitness or suspention issued to worker	Signature with gate certifying surgeon.
5	7052	MR. GOVIND M LAWATE	28	M	-	NA	NA ·		<i>2</i> 7	02/09/2022	Fit	NA	Fit	NA	
6	2091	MR. BHARAT R PATIL	\$2	М	7.1	NA	NA			02/09/2022	Fit	NA	Fit	· NA	
17	7173	MR. BAJIRAO B PATIL	8	M	-	NA	NA .			02/09/2022	Fit	NA	Fit	NA	
18	7383	MR. MUSTAFA A MUJAWAR	23	M		NA '	NA :			02/09/2022	Fit	NA	Fit	. NA	
19	2217	MR. AVINASH J DONGALE	35	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
20	7127	MR. SURAJ S R	30	М	-	NA	NA ·			02/09/2022	Fit	NA	Fit	NA	
21	7403	MR. SOURABH R CHOUGULE	14	M	• ;	NA	NA			02/09/2022	Fit	NA	Fit	NA	
22	2275	MR. YASHWANT K JADHAV	42	М	-	NA	NA :			02/09/2022	Fit	NA	Fit	NA	
23	7487	MR. RUSHIKESH S GAJARE	122	М	• .	NA	NA			02/09/2022	Fit	NA	Fit	NA	
24	1228	MR. SHASHIKANT A SHINDE	45	M	-,	NA	NA			02/09/2022	Fit	NA	Fit	NA	
2.5	1710	MR. SANDEEP N MAGDUM	4	M	• ;	NA ·	NA			02/09/2022	Fit	NA	Fit	NA	
26	2146	MR. ANIL N MAGDUM	30	М	-	NA	NA		-	02/09/2022	Fit	NA	Fit	NA	
27	1922	MR. SADASHIV S PATIL	45	M		NA ·	NA			02/09/2022	Fit	NA	· Fit	NA	8
8	1170	MR. RAVINDRA B PATIL	58	М		NA	NA			02/09/2022	Fit	NA	Fit	7 NA /	,
9	7131	MR. SUJIT S RANGOLI	.34	М	-1	NA	NA			02/09/2022	Fit	NA	Fit	NA	/
0	0426	MR. ANIL B DESHPANDE	\$4	M		NA.	NA :			02/09/2022	Fit	NA	Fit	NA	
31	1944	MR. AJIT'S MANE	4	M		NA	NA .			02/09/2022	Fit	NA	Pit .	CNA 1	
2	7172	MR. NANDKUMAR KAMBLE	46	M		NA	NA			02/09/2022	Fit	NA	Fire) XA)
33	7135	MR. SHAMRAO V DAVAR	+	M	21	NA.	NA.			.02/09/2022	Fit		ARVIND	A. MAN	
			1									MMC	I.B.B.S., D.P.N., REGD. NO. :	A.F.I.H. (MUMB 2010/10/31 LI REG 3. NO0	AI) 76

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GOVT. OF INDIA-DGFASLI REG 3. NO.-02388 Consultant Industrial Health Physician

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

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

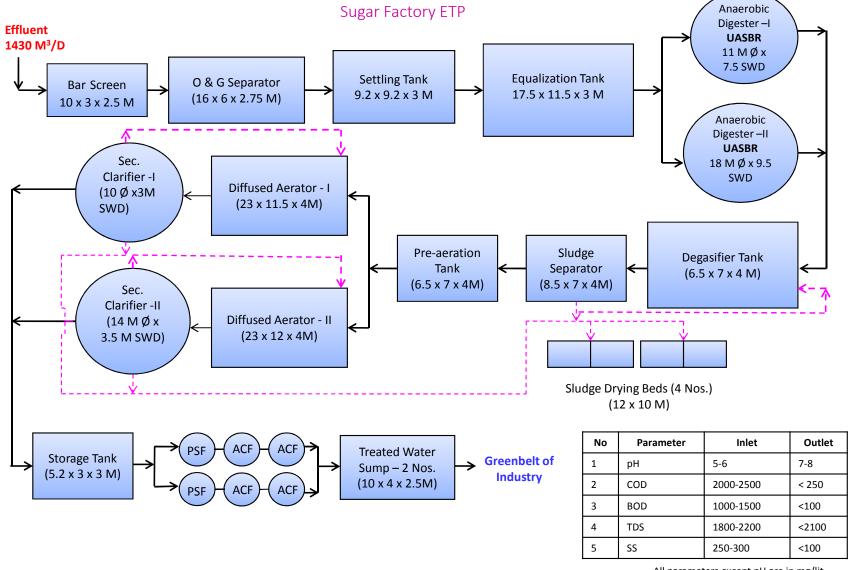
Company Name: KALLAPPANNA AWADE JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD.

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	10	M	*	NA	NA			02/09/2022	Fit	NA	Fit	NA	
135	1790	MR. BAHUBALI M KESTE	12	М	-1	NA	NA *			02/09/2022	Fit	NA	Fit	NA	
136	0359	MR. SHRIKANT'S KHOT	54	M		NA	NA		70	02/09/2022	Fit	NA	Fit	NA	
137	0609	MR. MARUTI M JADHAV	18	M	. 15	NA	NA .		3 1	02/09/2022	Fit	NA	Fit	ŇA	87
138	2080	MR. SATISH B DANAGAR	34	.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	15	M	-	NA	NA .			02/09/2022	Fit	NA	Fit	NA	
141	0643	MR. SANJAY T BHOSALE	33	M	-	NA	NA			02/09/2022	Fit	NA	Fit	NA	
142	1841	MR. M B SURYAWANSHI	8	M	9 .	NA	NA			02/09/2022	Fit	NA	Fit	NA	
143	7144	MR. PRAKASH N KAMBLE	\$2	M		NA.	NA ;			02/09/2022	Fit	NA	Fit	ΝA	
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	ΝA	
146	1800	MR. J B MADBHAVE	19	M		NA ·	NA !			02/09/2022	Fit	ΝA	Fit	ŅA ,	
147	1458	MR. SANJAY A MURABATTE	\$4	М	-,	NA	NA		12	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	М	7	NA	NA /			02/09/2022	Fit	NA	Fit	MA	
150	1600	MR. MAHAVIR T PATIL	19	M.	- 2	NA	NA .			02/09/2022	Fit	NA	Fit	NA)	
151	1718	MR. SANJAY A CHAVARE	5	М	•	NA	NA			02/09/2022	Fit	NA	Gity (NA	
152	0052	MR. VISHWAS L PATIL	\$6	M		NA	NA .			02/09/2022	Fit	Mor. i	ARVIND	A. HAN	en ang
19	0				3 37 1				+			MMC	REGD. NO.\:	2010/10/317	6
	Page 8 c	of 66	T		87							GOVT. OF	INDIA-DGFAS	LI REGID. NO0	2300

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GOVT. OF INDIA-DGFASLI REGD. NO.-02386 Consultant Industrial Health Physician

Annexure – III Photographs of ETP & STP

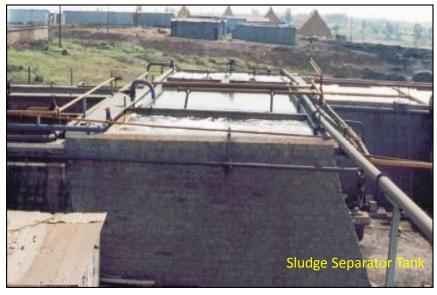


All parameters except pH are in mg/lit.

Photographs of Sugar Factory ETP









Sugar Factory ETP









Photographs of Sugar Factory ETP

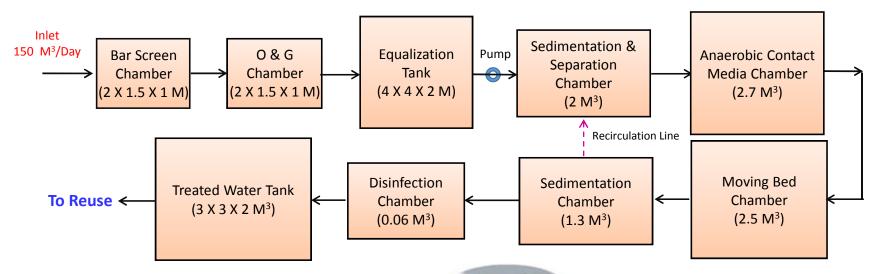








Sewage Treatment Plant



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	O&G	mg/lit	20 - 30	< 10

Expeditious treatment; easy maintenance

Energy-saving

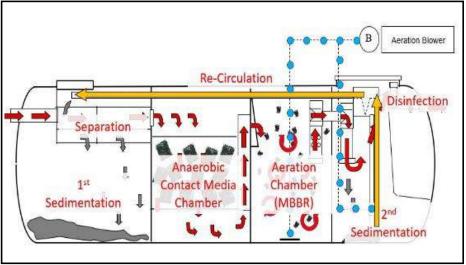
Most updated automated manufacturing technology

Stable high-quality FRP material



Johkasou STP Treatment Process





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

Technological Frame Work

- Technology approved by National Jal Jeevan Mission.
- Technology Approved by CII (Confederation of Indian Industry)
- 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







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	Report Date		30/11/2022	
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				
	Ambient Air S	ample Details			
Туре	Samplin	g Location		Sampling	done by
Ambient Air	Near N	Nain Gate		GESI	C
	Sampli	ng Time			
Start Time		p Time		Total	Hrs.
02:00 P.M.	03:0	00 P.M.		60 Min	
	Metrological Data/Env	rironmental Con	ditions		
Ambient Temperature °C	30.0	Wet Bulb Temperature °C		21.0	
Dry Bulb Temperature °C	30.0	Relative Humidity % RH		44.4	
Date of Sampling	Sample Receipt Date	Analysis	Analysis Start Date		nd Date
24/11/2022	25/11/2022	26/1:	1/2022	30/11/2022	
Name of Instrument	High Volume Sampler	Date Of 0	Date Of Calibration 19/1		2022
Calibration Certificate No.	SSEC/FF/1528		f Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	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

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 R	EPORT					
Test Report No: -	GESEC/PRO/AAQM/2022-23/11/786 GESEC/PRO/AAQM/2022-23/11/786 Report Date			30/11/2022			
Sample ID: -				30/11/2022			
N 0 Add fab-	NA/- Wallanasaa Awada la	bCh.adia.u	Cabaliani Saliban I	(aulchana I èd			
Name & Address of the		M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakh Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Mahar					
Customer	Hupari-Yaigud, Tai: Hatkana	ngale, Dist: Ko	inapur (ivianarasn	traj			
	Ambient Air S	ample Details					
Type	Samplin	g Location		Sampling	done by		
Ambient Air	Nea	r ETP		GESI	EC		
A SAN AND AND AND AND AND AND AND AND AND A	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	nditions				
Ambient Temperature °C	30.0	Wet Bulb 1	emperature °C	21.	0		
Dry Bulb Temperature °C	30.0	Relative Humidity % RH		elative Humidity % RH . 44.4			
Date of Sampling	Sample Receipt Date	Analysis Start Date Analysis		Analysis E	nd Date		
24/11/2022	25/11/2022	TOTAL MALE AND A STREET	26/11/2022 30/11/20		2022		
Name of Instrument	Respirable Dust Sampler	Date Of	Calibration	19/10/	2022		
Calibration Certificate No.	SSEC/FF/1525		of Calibration	18/10/			
Parameters	Method	Method		NAAQ Standards	Resul		
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2	2019	μg/cum	100.00	59.36		
Particulate Matter (PM _{2.5})	IS:5182 (PART 24):	2019	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(NOx)	IS:5182 (PART 6):2	2018	μg/cum	80.00	19.09		

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

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	7.5				
	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/11/787	Dament Data	30/11/2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23	/11/787	Report Date	30/11/2022	
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		GESE	C
	Samplir	ng Time			
Start Time	Stop	Time		Total	Hrs.
02:25 P.M.	. 03:2	5 P.M.		60 Min	
	Metrological Data/Env	ironmental Cond	ditions		
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	Start Date	Analysis E	nd Date
24/11/2022	25/11/2022	26/11	/2022	30/11/2022	
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration		19/10/	2022
Calibration Certificate No.	SSEC/FF/1526	Due Date of	Calibration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Resul
Particulate Matter (PM ₁₀)	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	20.76
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	2017	μg/cum	80.00	18.04
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	2018	μg/cum	80.00	23.59

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



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	TEST RÉPOR	Γ			
Test Report No	GESEC/PRO/ST/2022-23/11/788 Report Date			3	0/11/2022
Sample ID -	GESEC/PRO/ST/2022-23/11/7	788			
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanai	rahar Shetkari Saha ngale, Dist: Kolhapı	ikari Sakhar ur (Maharas	Karkhana htra)	Ltd.,
	Sample Deta	ils			
sample sellection Date	Sample receipt Date	Analysis star	t Date		is complete Date
Sample collection Date 24/11/2022	25/11/2022	26/11/20	22	3	30/11/2022
£7/ ±2/ £022	Instrument De	etails			
Name Of Instrument	Stack Monitoring Kit	Date Of Calib	ration	17/10/2022	
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration		16/10/2023	
	Stack Deta	ils			
Stack No/ID	Stack A	tached to		Sar	mpling done by
01	Stack 1 (90+20 TPH)			GESEC
Shape	Round	Fuel Us	ed	Bagasse	
Diameter/ Dimensions (m)	4.73	Pressu	re		5.00
Height (m)		75			
Temperature (°C)	125	Velocity (m/s)		8.47
Gas Volume (Nm³/Hr)		401649	21		
Gas volume (init /)					T
Parameters	Method	Unit	7.00	mit	Result 42.36
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm ³	1	50	
Sulphur Dioxide (SO ₂)		mg/Nm ³			18.45
Sulpitul bloxide (502)	IS 11255 (Part 2) 2019	Kg/day		•	177.85

- Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM³.
- Maharashtra Pollution Control Board (MPCB) Limits: SO2: As per consent. ENVIROS P

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	TEST REPORT					
Test Report No	GESEC/PRO/ST/2022-23/11/789 Report Date			3	0/11/2022	
Sample ID -	GESEC/PRO/ST/2022-23/11/7	89				
•					TV COLUM	
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkanar	ahar Shetkari Saha Igale, Dist: Kolhapi	kari Sakhar ır (Maharas	Karkhan ntra)	a Ltd.,	
	Sample Detai	s		1		
Data	Sample receipt Date	Analysis star	Date		is complete Date	
Sample collection Date 24/11/2022	25/11/2022	26/11/20	22		30/11/2022	
24/11/2022	Instrument De	ails				
	Stack Monitoring Kit	Date Of Calib	ration	17/10/2022		
Name Of Instrument		Due Date of Ca	libration	16/10/2023		
Calibration Certificate No.	SEC/TH/57	Due Date of Calibration				
	Stack Detail			C	mpling done by	
Stack No/ID		tached to		Sai	GESEC	
01	Stack 2	(75 TPH)				
Shape	Round	Fuel Us	ed		Bagasse 4.00	
Diameter/ Dimensions (m)	2.5	Pressu	re		4.00	
Height (m)		72				
Temperature (°C)	120	Velocity (m/s)		7.53	
Gas Volume (Nm³/Hr)	The last	100993.8	34			
das volume (itim / iti/				ONEW .	Result	
Parameters	Method	Unit		mit	39.86	
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³	1	50	WCS-WOSUNO.	
	x 2556	mg/Nm³		-	17.41	
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	Kg/day		-	42.20	

- Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM3.
- Maharashtra Pollution Control Board (MPCB) Limits: SO2: As per consent. PUNE PUNE

END OF REPORT

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		TEST REPOR					
Test Report No: -	GESEC/PRO	GESEC/PRO/ANLM/2022-23/11/790 Report Date					
Sample ID: -	GESEC/PRO	/ANLM/2022-23/	11/790	1			
Sample 10.				to II. Varldsonali	t d		
Name & Address of the Customer	M/s. Kallar Hupari-Ya	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana L Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)					
		Ambient Noise Sar	mple Details				
T	Ambient N						
Type Sampling done by	GESEC						
Standard method	As Per IS: 9	989:2020					
Standard method			1980 cross \$ 40 cr		Analysis End Date		
Date of Sampling	Sample	Receipt Date	Analysis Start Date		30/11/2022		
24/11/2022	25	/11/2022	26/11/2022		30/11/2022		
- 1, - 1,		900 - 10000000	D-1- 06/	Calibration	17/10/2022		
Name Of Instrument	Digital So	Digital Sound Level Meter Date Of Calibration SSEC/ME/266 Due Date of Calibration			16/10/2023		
Calibration Certificate No.	SSE	C/ME/266	Due Date o	Calibration			
		Unit	Average Noise Level Readings		CPCB Standards dB(A)		
Test Location		Ollic	Day (04:00 P.M.)	Night (10:30 P.M.)			
		dB(A)	60.3	57.1	During Day time =		
Near Main Gate		dB(A)	68.7	62.4	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		dB(A)	66.2	63.0			
Near Cane Yard Remark- > Centre Pollution Control Box		10000007407400					

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during the Night Time.

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	TEST	REPORT				
Tak Banart Nota	GESEC/PRO/WNLM/	30/11/2022				
Test Report No: -	GESEC/PRO/WNLM/2022-23/11/791 Report Date GESEC/PRO/WNLM/2022-23/11/791					
Sample ID: -	GESEG/: III /					
Name & Address of the Customer	M/s. Kallappanna A Hupari-Yalgud, Tal:	wade Jawa Hatkanan	ahar Shetkari Sa gale, Dist: Kolha	hakari Sakhar Karkhan pur (Maharashtra)	a Ltd.,	
	Work Zone	Noise San	nple Details			
Туре	Work Zone Noise					
Sampling done by	GESEC					
Standard method	As Per IS: 9989:2020)				
	Samuela Resoint Do	ato	Analysis	Start Date	Analysis End Date	
Date of Sampling	Sample Receipt Da	ate		/2022	30/11/2022	
24/11/2022	25/11/2022					
W. Ho	Sound Level Me	oter	Date of	Calibration	07/10/2022	
Name of Instrument	A WAR A LITE OF MIT III. HAVE A STATE OF A S		Due Date	of Calibration	06/10/2023	
Calibration Certificate No.	SSEC/ME/259	9	Duc Dut			
			Average Noise Level Readings		The Factories Ac	
Test Location	Unit	Da	y (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	1979	
Turbine Section	dB(A)		85.0	82.2	≤ 90	
Boiler Section	dB(A)		87.3	82.7		
Mill Section Pan Section	dB(A)		86.4	83.0		

Remark-

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

All above results are within Factories Act 1948 Standards.

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END OF REPORT

PUNE

& Consultant

Terms and conditions

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TE	ST REPORT		
Test Report No: GESEC/PRO/WW/2022-23/11/792	Report Da	te	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	llected By	GESEC
(Maharashtra)	Date of Samp Collection Sample Recei		24/11/2022
	Sample Receipt Date		25/11/2022
	Analysis start Date		26/11/2022
	Analysis E	nd Date	30/11/2022
Parameters	Results	Unit	Standard Method
рН	3.00		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	141.79	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	3251.42	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	3012.98	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	1497.20	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	963.32	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	822.79	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	14.00	mg/lit	IS 3025 (Part 39), 2019

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	TE	ST REPORT			
Test Report No: GESEC/PRO/WW/20	Report Date		30/11/2022		
Sample ID : GESEC/PRO/WW/2022-2	23/11/793	Sample Det	ails	ETP Outlet	
		Type of San	nple	Waste Water	
		Volume Of	Sample	1 Lit plastic bottle	
		Sample Stat	tus	Sealed	
Name & Address of the Customer:	Sample Coll	ected By	GESEC		
M/s. Kallappanna Awade Jawahar Sl Sahakari Sakhar Karkhana Ltd.,	Date of Sample Collection		24/11/2022		
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur		Sample Rec	eipt Date	25/11/2022	
(Maharashtra)		Analysis sta	rt Date	26/11/2022	
		Analysis End Date		30/11/2022	
	×	Analysis En	d Date	30/11/2022	
Parameters	Results	Analysis End	d Date Unit	30/11/2022 Standard Method	
	Results 7.25	МРСВ			
Parameters pH Suspended Solids (SS)	1.5.3.0.0.0	MPCB LIMIT	Unit	Standard Method	
pH Suspended Solids (SS)	7.25	MPCB LIMIT 6.5-8.5	Unit	Standard Method APHA 4500 H+,B 23rd Edition.201	
рН	7.25	MPCB LIMIT 6.5-8.5	Unit mg/lit	Standard Method APHA 4500 H+,B 23rd Edition.201 APHA 2540 D 23 rd ED:2017	
pH Suspended Solids (SS) Total Dissolved Solids (TDS) Chemical Oxygen Demand (COD)	7.25 18.62 1137.91	MPCB LIMIT 6.5-8.5 100 2100	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)	7.25 18.62 1137.91 65.20	MPCB LIMIT 6.5-8.5 100 2100 250	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	
Suspended Solids (SS) Total Dissolved Solids (TDS) Chemical Oxygen Demand (COD) Biochemical Oxygen Demand (BOD)	7.25 18.62 1137.91 65.20 23.47	MPCB LIMIT 6.5-8.5 100 2100 250 100	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	

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

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	TEST	REPORT			
Test Report No: -	GESEC/PRO/WZM/2022-23/11/794 Report Date			O-MANUAL TO A STATE OF THE STAT	
Sample ID: -			Report Date	30/11/2022	
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana	wahar Shetkari S angale, Dist: Kolh	Sahakari Sakhar K napur (Maharash	arkhana Ltd., tra)	v#
	WORKZONE AIR QUALIT	Y MONITORING	RESULTS		
Туре		ng Location		Sampling	done by
Ambient Air		Section		GES	
	Sampli	ng Time			
Start Time		p Time		Total Hrs.	
02:35 P.M.	03::	35 P.M.		60 Min	
	Metrological Data/En	vironmental Con	ditions		
Ambient Temperature oc	32	Wet Bulb Temperature oc		23	
Dry Bulb Temperature oc	32	Relative Humidity % RH		Relative Humidity % RH 46	
Date of Sampling	Sample Receipt Date	Analysis !	Start Date	Analysis I	End Date
24/11/2022	25/11/2022		26/11/2022 30/11/2022		
Name of Instrument	Handy Sampler	Date of C	alibration	19/10,	/2022
Calibration Certificate No.	SSEC/FF/1517	Due Date of	f Calibration	18/10,	/2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):	2019	mg/m³	10	0.346
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2)::	2017	mg/m³	5	0.008
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6)::	2018	mg/m³	6	0.012

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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> > mg/m³

mg/m³

mg/m³

10

5

6

	TEST	REPORT			
Test Report No: -	GESEC/PRO/WZM/2022-23/	11/795			
Sample ID: -	GESEC/PRO/WZM/2022-23/	11/795	Report Date	30/11/2022	
Name & Address of the	M/s Vallannanna Assada la		-		
Customer	M/s. Kallappanna Awade Ja				
Customer	Hupari-Yalgud, Tal: Hatkana	ingale, Dist: Ko	inapur (ivianarasn	ira)	
	WORKZONE AIR QUALIT	TY MONITORIN	G RESULTS		
Туре	Samplir	g Location		Sampling w	as done by
Ambient Air	Suga	r House		GES	SEC
	Sampl	ing Time			
Start Time	Sto	p Time		Total Hrs.	
02:45 P.M.	03:4	15 P.M.		60 Min	
	Metrological Data/En	vironmental Co	onditions		
Ambient Temperature oc	32	Wet Bulb 1	emperature oc	2	3
Dry Bulb Temperature oc	32	Relative H	lumidity % RH	46	
Date of Sampling	Sample Receipt Date	Analysis	s Start Date	Analysis	End Date
24/11/2022	25/11/2022		11/2022	30/11	
6 750000	AND STATE STATE OF	207	1/2022	30/11	12022
Name Of Instrument	Personal Sampler	Date of	Calibration	19/10	/2022
Calibration Certificate No.	SSEC/FF/1519	Due Date of Calibration		18/10	
Parameters	Method		Unit	NAAQ Standards	Result

Note:

Particulate Matter (PM)

Oxides of Nitrogen(NOx)

Sulphur Dioxide (SO₂)

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

IS:5182 (PART 4):2019

IS:5182 (PART 2):2017

IS:5182 (PART 6):2018

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0.362

0.007

0.011

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	TEST F	REPORT		*******************	
Test Report No: -	GESEC/PRO/AAQM/2022-23	3/12/1113	Report Date	03/01/	2022
Sample ID: -	GESEC/PRO/AAQM/2022-23	3/12/1113	Report Date	03/01/	2023
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	Sample Details			
Type	Samplir	ng Location		Sampling	done by
Ambient Air	Near N	Main Gate		GES	EC
	Sampli	ng Time			
Start Time	Sto	p Time		Total	Hrs.
04:00 P.M.	05:0	00 P.M.		60 Min	
	Metrological Data/Env	vironmental Co	nditions		
Ambient Temperature °C	29.0	Wet Bulb 1	Temperature °C	17.0	
Dry Bulb Temperature °C	29.0	Relative Humidity % 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	2/2022 03/01/2023	
Name of Instrument	High Volume Sampler	High Volume Sampler Date Of Calibration		19/10/	2022
Calibration Certificate No.	SSEC/FF/1528	Due Date	of Calibration	18/10/	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):	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):	2017	μg/cum	80.00	18.02
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	μg/cum	80.00	24.11

Remark

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	and 100/120 17023.2017 (14	***************************************	2010,100 40001 . 2010	7 4110 100 14001 , 20	15 Ceruneu
	TEST RI				
Test Report No: -	GESEC/PRO/AAQM/2022-23	THE RESERVE OF THE PARTY OF THE	Report Date	03/01/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23/12/1114		neport bute	03/02/2023	
Name & Address of the	M/s. Kallappanna Awade Jaw				
Customer	Hupari-Yalgud, Tal: Hatkana	ngale, Dist: Ko	lhapur (Maharash	tra)	
	Ambient Air S	ample Details			
Туре	Sampling	Location		Sampling	done by
Ambient Air	Nea	r ETP		GESI	EC
	Samplin	g Time			
Start Time	Stop	Time		Total	Hrs.
04:10 P.M.	05:10 P.M.			60 M	in
	Metrological Data/Envi	ironmental Co	nditions		
Ambient Temperature °C	29.0	Wet Bulb Temperature °C		17.0	
Dry Bulb Temperature °C	29.0	Relative Humidity % RH		H 28.3	
Date of Sampling	Sample Receipt Date	Analysi	s Start Date	Analysis E	nd Date
28/12/2022	29/12/2022	30/	30/12/2022 03/		2023
Name of Instrument	Repairable Dust Sampler	Date Of	Calibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1525	Due Date	of Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	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	Report Date	03/01/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23	GESEC/PRO/AAQM/2022-23/12/1115		03/01/2023	
Name & Address of the	M/s. Kallappanna Awade Jav	ahar Shetkar	i Sahakari Sakhar I	Carkhana Ltd.,	
Customer	Hupari-Yalgud, Tal: Hatkana	ngale, Dist: Ko	lhapur (Maharash	tra)	
	Ambient Air S	ample Details			
Туре	Samplin	g Location		Sampling	done by
Ambient Air	Near C	ane Yard		GESI	EC
	Samplin	g Time			
Start Time	Stop Time			Total	Hrs.
04:20 P.M.	05:20 P.M.			60 M	lin
	Metrological Data/Env	ironmental Co	nditions		
Ambient Temperature oc	28.0 Wet Bulb Temperature oc		19		
Dry Bulb Temperature oc	28.0	Relative Humidity % RH		31.1	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date
28/12/2022	29/12/2022	30/	12/2022	03/01/202	
Name Of Instrument	High Volume Combined Sampler	Date Of Calibration		bration 19/10/202	
Calibration Certificate No.	SSEC/FF/1526	Due Date	of Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Resul
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2	019	μg/cum	100.00	64.12
articulate Matter (PM _{2.5})	IS:5182 (PART 24):	2019	μg/cum	60.00	21.16
ulphur Dioxide (SO₂)	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 REPORT		¥	79
Test Report No	GESEC/PRO/AAQM/2022-23/	Report Date	03/01/2023	
Sample ID -	GESEC/PRO/AAQM/2022-23/	12/1116		
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	chana Ltd.,
	Sample Detai	ls		
Sample collection Date	Sample receipt Date	Analysis	start Date	Analysis complete Date
28/12/2022	29/12/2022	30/12	/2022	03/01/2023
1+-9+ 9 75-22004(1993)8494.	Instrument De	ails	249	
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	ssure	4.00
Height (m)		75		
Temperature (°C)	130	Veloci	ty (m/s)	7.62
Gas Volume (Nm³/Hr)		35701	0.44	
Parameters	Method	Unit	Limit	Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³	150	38.63
Sulphur Dioxide (SO₂)	IC 44255 (Dark 2) 2010	mg/Nm ³		16.87
	IS 11255 (Part 2) 2019 Kg/day			144.55

Remarks-

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

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	TEST REPOR	Т			
Test Report No	GESEC/PRO/ST/2022-23/12/1117		eport 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	wahar Shetkari Sahakari ngale, Dist: Kolhapur (M	Sakhar Kai aharashtra	rkhana Ltd., a)	
	Sample Deta	ils			
Sample collection Date	Sample receipt Date	Analysis start Date	e A	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 Calibrat	ion	16/10/2023	
	Stack Detai	ls		(A	
Stack No/ID	Stack A	ttached to		Sampling done by	
01	Stack 2	(75 TPH)		GESEC	
Shape	Round	Fuel Used		Bagasse	
Diameter/ Dimensions (m)	2.5	Pressure		3.00	
Height (m)		72			
Temperature (^o C)	125	Velocity (m/s)		6.56	
Gas Volume (Nm³/Hr)		86912.11		and the second	
Parameters	Method	Unit	Limit	Result	
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³	150	43.13	
Sulphur Dioxide (SO₂)	IS 11255 (Part 2) 2019	mg/Nm³	*	19.50	
	13 11233 (Fait 2) 2019	Kg/day -		40.67	

Remarks-

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

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55	TEST REPORT		11 21
Test Report No: -	GESEC/PRO/ANLM/2022-23/12/1118	Report Date	03/01/2023
Sample ID: -	GESEC/PRO/ANLM/2022-23/12/1118	Report Date	05/01/2025

Name & Address of the Customer

M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)

Туре	Ambient Noise	A STATE OF THE STA
Sampling done by	GESEC	
Standard method	As Per IS: 9989:2020	

Ambient Neise Comple Details

Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
28/12/2022	29/12/2022	30/12/2022	03/01/2023
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration	17/10/2022
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration	16/10/2023

Test Location	Unit	Average Noise	e 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) during the Night Time.

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99		TEST R	EPORT	7. V	*	
Test Report No: -	GESEC/	PRO/WNLM/202	03/01/2023			
Sample ID: -	GESEC/	PRO/WNLM/202	2-23/12/1119	Report Date	05/01/2025	
Name & Address of the Customer	M/s. Ka Hupari	illappanna Awado -Yalgud, Tal: Hatk	e Jawahar Shetkari S kanangale, Dist: Kolh	ahakari Sakhar Karkha apur (Maharashtra)	na Ltd.,	
		Work Zone No	ise Sample Details			
Туре	Work 7	one Noise	ise sumple become			
Sampling done by	GESEC	one worse				
Standard method	As Per IS: 9989:2020					
				X.		
Date of Sampling	Sampl	e Receipt Date	Analysis	Analysis Start Date		
28/12/2022	2	9/12/2022	30/1	2/2022	03/01/2023	
					07/10/2022	
Name of Instrument	Sound Level Meter		ATTACAS TO A STATE OF THE STATE	f Calibration	07/10/2022	
Calibration Certificate No.	9	SSEC/ME/259	Due Date	of Calibration	06/10/2023	
		11-14	Average Noise Level Readings		The Factories Act 194	
Test Location		Unit	Day (06:20 P.M.)	Night (11:40 P.M.)	standards	
entrifugal Section		dB(A)	86.9	84.1		
urbine Section		dB(A)	89.0	87.2		
Soiler Section		dB(A)	87.2	85.7	≤ 90	
Mill Section		dB(A)	88.5	84.1		
an Section		dB(A)	88.1	86.0		

Remark-

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

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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 Sakhar Karkhana Ltd.,	Sample Coll	ected By	GESEC
	Date of Sample Collection		28/12/2022
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Sample Receipt Date		29/12/2022
(Maharashtra)	Analysis start Date		30/12/2022
	Analysis End Date		03/01/2023
Parameters	Results	Unit	Standard Method
рН	4.00		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	168.95	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	2895.61	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	2541.97	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	1156.03	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	869.20	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	741.77	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	13.00	mg/lit	IS 3025 (Part 39), 2019

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



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	TEST REPORT	
est Report No: GESEC/PRO/WW/2022-23/12/1121 Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1121	Sample Details	ETP Outlet
Name & Address of the Customer:	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
M/s. Kallappanna Awade Jawahar Shetkari	Sample Collected By	GESEC
Sahakari Sakhar Karkhana Ltd., 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	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 23 rd ED:2017
Total Dissolved Solids (TDS)	1236.52	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	63.11	250	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	24.09	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	186.52	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	110.67	1000	mg/lit	APHA 3025 (Part 24);2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

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

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	TEST F	REPORT		
Test Report No: GESEC/PRO/WW/202	2-23/12/1122	Report Date		03/01/2023
Sample ID : GESEC/PRO/WW/2022-23	/12/1122	Sample De	tails	Factory STP Inlet
		Type of Sample		Waste Water
		Volume Of	Sample	1 Lit plastic bottle
Name & Address of the Customer:	Alicant	Sample Sta	itus	Sealed
M/s. Kallappanna Awade Jawahar She Sahakari Sakhar Karkhana Ltd.,			llected By	GESEC
Sanakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Date of Sample Collection Sample Receipt Date		28/12/2022 29/12/2022
		Analysis End Date		03/01/2023
■10.00000000 •0.000000	Results	Unit	Stand	ard Method
Parameters	110001100			ara momon
pH	6.10		APHA 4500 H+	B 23rd Edition.2017
рН				10/A/A/A (14/00-2005) 10/A-2018
pH Suspended Solids (SS)	6.10		APHA 254	,B 23rd Edition.2017
	6.10 67.40	 mg/lit	APHA 2540,C	,B 23rd Edition.2017 0 D 23 rd ED:2017

186.52

110.67

BDL

Remark:

Oil & Grease

Chlorides as Cl

Sulphates as SO₄ --

BDL – Below Detectable Limit.

END OF REPORT

mg/lit

mg/lit

mg/lit

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APHA 4500 Cl- B,23rd Edition, 2017

APHA 3025 (Part 24);2019

IS 3025 (Part 39), 2019

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· ·	TEST REPORT	
Report No: GESEC/PRO/WW/2022-23/12/1123 Report Date Sample Details Type of Sample Volume Of Sample Volume Of Sample Sample Status	Report Date	03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1123	Sample Details	Factory STP Outlet
Name & Address of the Customer:	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
M/s. Kallappanna Awade Jawanar Snetkari 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
(Wallalasitia)	Analysis start Date	30/12/2022
	Analysis End Date	03/01/2023

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.74	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.28	100	mg/lit	APHA 2540 D 23 rd 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
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

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

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Test Report 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 23 rd ED:2017	
Total Dissolved Solids (TDS)	1302.56	mg/lit	t APHA 2540,C,23rd Edition, 201	
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 Cl- B,23rd Edition, 2017	
Sulphates as SO ₄	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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TE	ST REPORT	
Test Report No: GESEC/PRO/WW/2022-23/12/1125	Report Date	03/01/2023
Sample ID : GESEC/PRO/WW/2022-23/12/1125	Sample Details	Colony STP Outlet
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Shetkari	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
	Sample Collected By	GESEC
Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Date of Sample Collection	28/12/2022
(Maharashtra)	Sample Receipt Date	29/12/2022
(Ividilal asilti a)	Analysis start Date	30/12/2022
	Analysis End Date	03/01/2023

Parameters	Results	MPCB LIMIT	Unit	Standard Method
рН	7.50	6.5-8.5	-	APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	17.63	100	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	596.20	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	45.11	250	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	13.47	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl ⁻	102.56	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄	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.

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	TEST	REPORT			4 - 37
Test Report No: -	GESEC/PRO/WZM/2022-23	/12/1260			
Sample ID: -	GESEC/PRO/WZM/2022-23		Report Date	03/01/202	23
Name & Address of the	M/s. Kallappanna Awade Ja	wahar Shotkar	i Sabalaari Salabaari	(III II I	
Customer	Hupari-Yalgud, Tal: Hatkan	angale, Dist: Ko	i Sanakari Saknar k Ihapur (Maharash	tra)	
	WORKZONE AIR QUALIT	Y MONITORIN	G RESULTS		
Туре		ng Location		Sampling	done by
Ambient Air	Pan Section			GES	
	Sampli	ng Time		010	
Start Time	Stop Time			Total Hrs.	
04:30 P.M.	05:30 P.M.			60 N	
	Metrological Data/En	vironmental Co	nditions		
Ambient Temperature oc	30			22	
Dry Bulb Temperature oc	30	Relative Humidity % RH		lative Humidity % RH 49	
Date of Sampling	Sample Receipt Date	Analysi	s Start Date	Analysis E	nd Date
28/12/2022	29/12/2022		12/2022	03/01/	
Name of Instrument	Handy Sampler	Dot- of	6-11		
Calibration Certificate No.	SSEC/FF/1517		Calibration	19/10/	
Tanas and a same and a same a	33EC/FF/1317	Due Date	of Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
articulate Matter (PM)	IS:5182 (PART 4)::	2019	mg/m³	10	0.412
ulphur Dioxide (SO ₂)	IS:5182 (PART 2)::	2017	mg/m³	5	0.009
oxides of Nitrogen(NO _x)	IS:5182 (PART 6)::		mg/m³	6	0.013

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		REPORT			1.1140
Test Report No: -	GESEC/PRO/WZM/2022-23/	12/1261			
Sample ID: -	GESEC/PRO/WZM/2022-23/		Report Date	03/01/202	!3
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana	wahar Shetkar angale, Dist: Ko	i Sahakari Sakhar K olhapur (Maharash	arkhana Ltd., tra)	
	WORKZONE AIR QUALIT	Y MONITORIN	IG RESULTS		
Туре		g Location		Sampling wa	as donee b
Ambient Air	Sugar House			GES	
		ng Time	ð.	OLO	
Start Time	Stop Time			Total	Hrs.
04:40 P.M.	05:40 P.M.			60 Min	
	Metrological Data/En	vironmental Co	onditions		
Ambient Temperature oc	30	Wet Bulb Temperature oc		22	
Dry Bulb Temperature oc	30	Relative Humidity % RH		49	
Date of Sampling	Sample Receipt Date	Analysi	s Start Date	Analysis E	nd Date
28/12/2022	29/12/2022		30/12/2022 03/01/2023		
Name Of Instrument	Personal Sampler	Date of	Calibration	10/10	/2022
Calibration Certificate No.	SSEC/FF/1519		of Calibration	19/10/ 18/10/	The state of the s
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):2	2019	mg/m³	10	0.341
ulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	IS:5182 (PART 4):2019 mg/		5	0.008
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	2018	mg/m³	6	0.010

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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23	/01/778	Domant Data	01/02/	2022
Sample ID: -	GESEC/PRO/AAQM/2022-23	/01/778	Report Date	01/02/	2023
Name & Address of the	M/s. Kallappanna Awade Jav				
Customer	Hupari-Yalgud, Tal: Hatkana	ngale, Dist: Koll	hapur (Maharash	tra)	
	Ambient Air S	Sample Details			
Туре		g Location		Sampling	done by
Ambient Air	Near Main Gate			GESI	EC
	Sampli	ng Time			
Start Time		Stop Time			
09:00 A.M.	10:00 A.M.			60 Min	
	Metrological Data/Env	rironmental Cor	ditions		
Ambient Temperature °C	22.0	Wet Bulb Temperature °C		17.0	
Dry Bulb Temperature °C	22.0	Relative Hu	umidity % RH	60.6	
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis E	nd Date
25/01/2023	27/01/2023		1/2023	01/02/	
	T			10/10/	2022
Name of Instrument	High Volume Sampler		Calibration	19/10/	
Calibration Certificate No.	SSEC/FF/1528	Due Date o	of Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	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	Donart Data	01/02/	2022	
Sample ID: -	GESEC/PRO/AAQM/2022-23,	/01/779	Report Date	01/02/	2023	
Name O Address of the	M/s. Kallappanna Awade Jav	ohou Chothou	i Sabakari Sakbar K	arkhana Itd		
Name & Address of the						
Customer	Hupari-Yalgud, Tal: Hatkana	ngale, Dist: Ko	omapur (ivianarasm	пај		
	Ambient Air S	ample Details				
Type		Sampling Location				
Ambient Air	Near ETP			GESI	EC	
	Samplir	g Time				
Start Time	Stop Time			Total Hrs.		
09:10 A.M.	10:10 A.M.			60 Min		
10.000000000000000000000000000000000000	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	Analys	is Start Date	Analysis E	nd Date	
25/01/2023	27/01/2023		01/2023	01/02/		
Name of Instrument	Respirable Dust Sampler		f Calibration	19/10/		
Calibration Certificate No.	SSEC/FF/1525	Due Date	of Calibration	18/10/	2023	
Parameters	Method		Unit	NAAQ Standards	Resul	
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2	019	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	017	μg/cum	80.00	14.78	
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):2	018	μg/cum	80.00	20.10	

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	TEST R	EPORT	- ps			
Test Report No: -	GESEC/PRO/AAQM/2022-23,	/01/780	Report Date	01/02/	2023	
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				Sampling	done by	
Ambient Air	Sampling Location Near Cane Yard			GES	The state of the s	
Allivielle All	Samplin			OL5		
Start Time		Stop Time				
09:20 A.M.	10:20 A.M.			Total Hrs. 60 Min		
00100111111	Metrological Data/Env		ditions	7.7010		
Ambient Temperature oc	23.0	Wet Bulb Temperature oc		17.0		
Dry Bulb Temperature oc	23.0 Relative Humidity % RH				6	
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis E	nd Date	
25/01/2023	27/01/2023		1/2023	01/02/	2023	
Name Of Instrument	High Volume Combined Sampler	Date Of 0	Calibration	19/10/	2022	
Calibration Certificate No.	SSEC/FF/1526	Due Date o	of Calibration	18/10/2023		
Parameters	Method		Unit	NAAQ Standards	Resul	
Particulate Matter (PM ₁₀)	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:-

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	TEST REPOR	Т				
Test Report No	GESEC/PRO/ST/2022-23/01/781 Repor			01/02/2023		
Sample ID -	GESEC/PRO/ST/2022-23/01/7					
			761			
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)					
	Sample Detail	ls				
Sample collection Date	Sample receipt Date	Analysis start Date		Analysis complete Date		
25/01/2023	27/01/2023	28/01/2023		01/02/2023		
	Instrument 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 /	Attached to	Sampling done by			
01	Stack 1	GESEC				
Shape	Round	Fuel Used		Bagasse		
Diameter/ Dimensions (m)	4.73	Pressure		3.00		
Height (m)		75		_		
Temperature (^o C)	125	Velocity (m/s)		6.56		
Gas Volume (Nm³/Hr)	311116.14					
Parameters	Method	Unit	Limit	Result		
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³	150	42.36		
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/Nm³		15.42		
		Kg/day	100	115.14		

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

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	TEST REPOR	Γ				
Test Report No	GESEC/PRO/ST/2022-23/01/782		Report Date	01/02/2023		
Sample ID -	GESEC/PRO/ST/2022-23/01/782					
¥.						
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)					
	Sample Detai	ls				
Sample collection Date	Sample receipt Date	Analysis start Date		Analysis complete Date		
25/01/2023	27/01/2023	28/01/2023		01/02/2023		
	Instrument De	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	Sampling done by			
01	Stack 2 (75 TPH)			GESEC		
Shape	Round	Fuel Used		Bagasse		
Diameter/ Dimensions (m)	2.5	Pressure		4.00		
Height (m)	72					
Temperature (°C)	120	Velocity (m/s)		7.53		
Gas Volume (Nm³/Hr)		100993.84				
Parameters	Method	Unit	Limi	t Result		
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³	150	40.63		
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/Nm³	(#1)	14.97		
		Kg/day	(=)	36.29		

Remarks-

- Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/Nm³.
- Maharashtra Pollution Control Board (MPCB) Limits: SO2: As per consent.

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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			
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis End Date
25/01/2023				/m.m.m.
Name Of Instrument	Digital Sound Level Meter	Date Of Calibration		17/10/2022
Calibration Certificate No.	SSEC/ME/266	Due Date of Calibration		16/10/2023
Test Location	Unit	Average Noise Level Readings		CPCB Standards dB(A)
		Day (11:45 P.M.)	Night (10:10 P.M.)	
Near Main Gate	dB(A)	63.9	61.5	During Doubless
Near ETP	dB(A)	63.0	62.2	During Day time = 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	70 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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	TI	EST REPORT					
Test Report No: -	GESEC/PRO/WNLM/202	22-23/01/784	Report Date	01/02/2023			
Sample ID: -	GESEC/PRO/WNLM/202	22-23/01/784	Report Date	01/02/2023			
Name & Address of the Customer	M/s. Kallappanna Awad Hupari-Yalgud, Tal: Hat			na Ltd.,			
<u></u>	Work Zone	Noise Sample Details					
Type	Work Zone Noise						
Sampling done by	GESEC	GESEC					
Standard method	As Per IS: 9989:2020						
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis End Date			
25/01/2023			Harden Andrews				
Name of Instrument	Sound Level Meter	Date o	f Calibration	07/10/2022			
Calibration Certificate No.	SSEC/ME/259	Due Date	of Calibration	06/10/2023			
Test Location	Unit	Average Noise	Level Readings	The Factories Act 1948,			
rest Location	Onic	Day (12:30 P.M.)	Night (10:45 P.M.)	standards			
Centrifugal Section	dB(A)	84.8	82.2				
Turbine Section	urbine Section dB(A)		84.8				
Boiler Section	dB(A)	84.8	83.0				
Mill Section	dB(A)	83.5	81.1				
Pan Section	dB(A)	85.2	82.7	≤ 90			

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/2022-23/01/785	Report Date		01/02/2023	
Sample ID : GESEC/PRO/WW/2022-23/01/785	Sample Detai	ls	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 Collec	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	
рН	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 CI-	754.12	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017	
Sulphates as SO4	632.99	mg/lit	APHA 3025 (Part 24) ;2019	
Oil & Grease	12.00	mg/lit	IS 3025 (Part 39), 2019	

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		TEST REPORT		
Test Report No: GESEC/PRO/WW	//2022-23/01/786	Report Date		01/02/2023
Sample ID: GESEC/PRO/WW/20	22-23/01/786	Sample Deta	ails	ETP Outlet
		Type of Sam	ple	Waste Water
Name & Address of the Customer:		Volume Of Sample		1 Lit plastic bottle
		Sample Status		Sealed
M/s. Kallappanna Awade Jawaha Sahakari Sakhar Karkhana Ltd.,	r Snetkari	Sample Collected By		GESEC
Hupari-Yalgud, Tal: Hatkanangal	e Dist: Kolhanur	Date of Sample Collection		25/01/2023
(Maharashtra)	c, bisti Komapui	Sample Receipt Date		27/01/2023
(Ivialiai usiici u)		Analysis start Date		28/01/2023
		Analysis End Date		01/02/2023
Parameters	Results	MPCB LIMIT	Unit	Standard Method
11	7.64	CEOE		

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 23 rd ED:2017
Total Dissolved Solids (TDS)	862.01	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	65.24	250	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	23.77	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl-	95.63	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	74.19	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL - Below Detectable Limit.

All parameters are within the MPCB limit.

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	TEST REPO	ORT			
Test Report No: GESEC/PRO/WW/2022-2	3/01/787	Report Date		01/02/2023	
Sample ID: GESEC/PRO/WW/2022-23/01	/787	Sample Details		Factory STP Inlet 50 KLPD	
		Type of Sa	mple	Waste Water	
	19	Volume Of	Sample	1 Lit plastic bottle	
Name & Address of the Customer:	i Cabalaai Calibaa	Sample Sta	itus	Sealed	
M/s. Kallappanna Awade Jawahar Shetka Karkhana Ltd.,	Sample Co	llected By	GESEC		
Hupari-Yalgud, Tal: Hatkanangale, Dist: K	Date of Sa	mple Collection	25/01/2023		
(Maharashtra)	Sample Receipt Date		27/01/2023		
(Manarasia a)	Analysis start Date		28/01/2023		
	Analysis End Date		01/02/2023		
Parameters	Results	Unit	Star	ndard Method	
рН	6.22		APHA 4500 H	H+,B 23rd Edition.2017	
Suspended Solids (SS)	82.47	mg/lit	APHA 25	640 D 23 rd ED:2017	
Total Dissolved Solids (TDS)	1305.96	mg/lit	APHA 2540	,C,23rd Edition, 2017	
Chemical Oxygen Demand (COD)	160.24	mg/lit	IS 3025	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 3025 (Part 24) ;2019		
Oil & Grease	BDL	mg/lit	IS 302	5 (Part 39), 2019	

Remark:

BDL - Below Detectable Limit.

All parameters are within the MPCB limit.

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		TEST REPORT			
Test Report No: GESEC/PRO/WW/202	2-23/01/788	Report Date	•	01/02/2023	
Sample ID: GESEC/PRO/WW/2022-23	3/01/788	Sample Det	ails	Factory STP Outlet 50 KLPD	
8		Type of Sam	ple	Waste Water	
		Volume Of	Sample	1 Lit plastic bottle	
Name & Address of the Customer:	tkari	Sample Stat	us	Sealed	
M/s. Kallappanna Awade Jawahar She Sahakari Sakhar Karkhana Ltd.,	Sample Coll	ected By	GESEC		
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Date of San	ple Collection	25/01/2023	
		Sample Rec	eipt Date	27/01/2023 28/01/2023	
		Analysis sta	rt Date		
	Analysis En	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 23 rd 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 Cl- B,23rd Edition, 2017	
Sulphates as SO ₄	66.39	1000	mg/lit	APHA 3025 (Part 24) ;2019	
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019	

Remark:

- BDL Below Detectable Limit.
- A 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/2022-23/01/7	'89	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:	Sahakari Sakhar	Sample Statu	S	Sealed	
M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)		Sample Collected By Date of Sample Collection Sample Receipt Date		GESEC	
				25/01/2023	
				27/01/2023	
,		Analysis start Date		28/01/2023	
		Analysis End	Date	01/02/2023	
Parameters	Results	Unit		Standard Method	
рН	6.30		APHA 45	00 H+,B 23rd Edition.2017	
Suspended Solids (SS)	75.41	mg/lit	APHA 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	8025 (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	10.	3025 (Part 39), 2019	

Remark:

BDL – Below Detectable Limit.

All parameters are within the MPCB limit.

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TE	ST REPORT	V V	
Test Report No: GESEC/PRO/WW/2022-23/01/790	Report Date	01/02/2023	
Sample ID: GESEC/PRO/WW/2022-23/01/790	Sample Details	Colony STP Outlet 100 KLPD	
	Type of Sample	Waste Water	
ame & Address of the Customer: 1/s. Kallappanna Awade Jawahar Shetkari Sahakari	Volume Of Sample	1 Lit plastic bottle	
	Sample Status	Sealed	
Sakhar Karkhana Ltd.,	Sample Collected By	GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Date of Sample Collection	25/01/2023	
(Maharashtra)	Sample Receipt Date	27/01/2023	
(Analysis start Date	28/01/2023	
	Analysis End Date	01/02/2023	

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.45	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017
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 58), 2019
Biochemical Oxygen Demand (BOD)	14.07	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl	86.92	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄	65.11	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL - Below Detectable Limit.

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	TEST F	REPORT			
Test Report No: -	GESEC/PRO/WZM/2022-23/	01/795	B	04 /02 /202	
Sample ID: -	GESEC/PRO/WZM/2022-23/	01/795	Report Date	01/02/2023	
Name & Address of the	M/s. Kallappanna Awade Ja				
Customer	Hupari-Yalgud, Tal: Hatkana	ingale, Dist: Ko	lhapur (Maharashi	tra)	
	WORKZONE AIR QUALIT	Y MONITORING	G RESULTS		
Туре		g Location		Sampling	done by
Ambient Air		Section		GES	
	Sampli	ng Time	,	AND DELIVED	
Start Time	Stop Time			Total Hrs.	
09:30 A.M.		10:30 A.M.			1in
	Metrological Data/Env	ironmental Co	nditions		
Ambient Temperature oc	26.0	Wet Bulb Temperature oc		19.0	
Dry Bulb Temperature ^{oC}	26.0	Relative Humidity % RH		ve Humidity % RH 51.0	
Date of Sampling	Sample Receipt Date	Analysis	s Start Date	Analysis E	nd Date
25/01/2023	27/01/2023		01/2023	01/02/	
2010212020	27/01/2025	20/0	51/2025	01/02/	2023
Name of Instrument	Handy Sampler	Date of	Calibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1517	Due Date	of Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):	2019	mg/m³	10	0.437
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):	2017	mg/m ³	5	0.008
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	mg/m³	6	0.013

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/	01/796			- 0.47
Sample ID: -	GESEC/PRO/WZM/2022-23/	01/796	Report Date	01/02/202	3
Name O Address - Call					
Name & Address of the	M/s. Kallappanna Awade Ja				
Customer	Hupari-Yalgud, Tal: Hatkana	ingale, Dist: Koll	napur (Maharash	tra)	
	WORKZONE AIR QUALIT	Y MONITORING	RESULTS		
Туре		g Location		Sampling	done by
Ambient Air	Suga	r House		GES	-
	Sampli	ing Time			
Start Time	Sto	Total Hrs.			
09:40 A.M.	10:4	10:40 A.M.			1in
	Metrological Data/En	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		1/2023	01/02/2023	
Name Of Instrument	Personal Sampler	Data of C	alibration	10/10/	2022
Calibration Certificate No.	SSEC/FF/1519		f Calibration	19/10/2022	
cambration certificate No.	3320/77/1319	Due Date o	Calibration	18/10/	2023
Parameters	Method	Method		NAAQ Standards	Result
articulate Matter (PM)	IS:5182 (PART 4):	2019	mg/m³	10	0.326
ulphur Dioxide (SO ₂)	IS:5182 (PART 2):	2017	mg/m³	5	0.007
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	mg/m³	6	0.012

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 F	REPORT			1000
Test Report No: -	GESEC/PRO/AAQM/2022-23	/01/797	Report Date	01/02/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23	3/01/797	Report Date	01/02/202	3
Name & Address of the	M/s. Kallappanna Awade Ja				
Customer	Hupari-Yalgud, Tal: Hatkana	ingale, Dist: Ko	lhapur (Maharasht	ra)	
	Amhient Air S	Sample Details			
Туре		ng Location		Sampling of	done by
Ambient Air	Talandage Villa	-	est)	GESE	
		ng Time			
Start Time	Stop Time			Total Hrs.	
08:00 AM.	09:00 AM.			60 Min	
	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		ve Humidity % RH 61.0	
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date
25/01/2023	27/01/2023		01/2023	01/02/2023	
Name of Instrument	High Volume Sampler	Date O	f Calibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1528		of Calibration	18/10/2023	
		1			
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):	2019	μg/cum	100.00	56.13
Sulphur Dioxide (SO ₂)	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

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 RE	PORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23/	01/798	Report Date	01/02/2023	3
Sample ID: -	GESEC/PRO/AAQM/2022-23/	01/798	Report Date	01/02/2023	
-					
Name & Address of the	M/s. Kallappanna Awade Jaw	ahar Shetkari Sa	hakari Sakhar K	arkhana Ltd.,	
Customer	Hupari-Yalgud, Tal: Hatkanar	ngale, Dist: Kolha	pur (Maharasht	ra)	
	Ambient Air S	ample Details			
Туре		g Location		Sampling of	lone by
Ambient Air	Jangamwadi Villag		st)	GESE	C
Ambient An	Samplin				
Start Time	Stop Time			Total Hrs.	
09:00 AM.	10:00 AM.			60 Min	
03100711111	Metrological Data/Env	ironmental Cond	itions		
Ambient Temperature °C	24.0	Wet Bulb Temperature °C		18.0	0
Dry Bulb Temperature °C	24.0	Relative Humidity % RH		56.0	
Date of Sampling	Sample Receipt Date	Analysis S	tart Date	Analysis End Date	
25/01/2023	27/01/2023	28/01,		01/02/2023	
27 (1)	March March Vince St			10/10/	2022
Name of Instrument	Respirable Dust Sampler	Date Of Ca		19/10/	
Calibration Certificate No.	SSEC/FF/1525	Due Date of	Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
articulate Matter (PM ₁₀)	IS:5182 (PART 4):2	2019	μg/cum	100.00	58.66
ulphur Dioxide (SO ₂)	IS:5182 (PART 2):2		μg/cum	80.00	12.47
Oxides of Nitrogen(NOx)	IS:5182 (PART 6):2	2018	μg/cum	80.00	16.01

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/PRO/AAQM/2022-23	/02/636	Bonart Data	02/02/	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 Ja Hupari-Yalgud, Tal: Hatkana					
	Ambient Air S	ample Details	,			
Type		g Location		Sampling	done by	
Ambient Air		Nain Gate		GESI	EC	
	Sampli	ng Time				
Start Time		p Time		Total	Hrs.	
11:30 AM.	12:30 PM.			60 Min		
	Metrological Data/Env	rironmental Co	onditions			
Ambient Temperature °C	30.0	Wet Bulb Temperature °C		15.	0	
Dry Bulb Temperature °C	30.0	Relative Humidity % RH		16.5		
Date of Sampling	Sample Receipt Date	Analysis Start Date		Analysis E	nd Date	
24/02/2023	25/02/2023	27/02/2023		03/03/2023		
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	Resul	
Particulate Matter (PM ₁₀)	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	/02/637	Report Date	03/03/2023	
Sample ID: -	GESEC/PRO/AAQM/2022-23	/02/637	Report Date	03/03/2023	
Name & Address of the	M/s. Kallappanna Awade Jav	vahar Shetkar	i Sahakari Sakhar I	Karkhana Ltd.,	
Customer	Hupari-Yalgud, Tal: Hatkana				
	Ambient Air S	ample Details			
Туре	Samplin	g Location		Sampling	done by
Ambient Air	Nea	r ETP		GES	EC
	Samplir	g Time			
Start Time	Stop Time			Total Hrs.	
11:40 AM.	12:40 PM.			60 Min	
	Metrological Data/Env	ironmental Co	onditions		
Ambient Temperature °C	30.0	Wet Bulb Temperature °C		15.0	
Dry Bulb Temperature °C	30.0	Relative I	lumidity % RH	16.5	
Date of Sampling	Sample Receipt Date	Analysi	s Start Date	Analysis End Da	
24/02/2023	25/02/2023	27/	02/2023	03/03/2023	
Name of Instrument	Respirable Dust Sampler	Date Of Calibration		19/10/2022	
Calibration Certificate No.	SSEC/FF/1525	Due Date	of Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2	2019	μg/cum	100.00	59.13
		10.0202 (1.1111 1/12020			

Remark

Particulate Matter (PM_{2.5})

Sulphur Dioxide (SO₂)

Oxides of Nitrogen(NOx)

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

IS:5182 (PART 24):2019

IS:5182 (PART 2):2017

IS:5182 (PART 6):2018

Consultant PVI

μg/cum

µg/cum

μg/cum

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18.33

12.45

17.96

60.00

80.00

80.00

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	TEST R	EPORT			
Test Report No: -	GESEC/PRO/AAQM/2022-23,	/02/638	Report Date	e 03/03/2023	
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		g Location		Sampling	done by
Ambient Air	-	ane Yard		GESI	
7111101111111	Samplir				
Start Time		Time		Total	Hrs.
11:50 AM.	12:50 PM.			60 Min	
	Metrological Data/Env	ironmental Co	nditions		
Ambient Temperature oc	31.0	Wet Bulb Temperature °C		15.0	
Dry Bulb Temperature oc	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 Calibration		19/10/	2022
Calibration Certificate No.	SSEC/FF/1526 Due Date of Cal		of Calibration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	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	RT			
Test Report No	GESEC/ST/2022-23/02/639		Report Date	03/03/2023	
Sample ID -	GESEC/ST/2022-23/02/639	111			
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana	wahar Shetkari Sah angale, Dist: Kolhap	akari Sakhar I our (Maharash	Karkhana Ltd., Itra)	
19	Sample Det				
Sample collection Date	Sample receipt Date	Analysis star	t Date	Analysis complete Date	
24/02/2023	25/02/2023	27/02/20)23	03/03/2023	
	Instrument D	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 Deta	ils	VIII.23 ************************************		
Stack No/ID	Stack At	tached to		Sampling done by	
01	Stack 1 (9	Stack 1 (90+20 TPH)			
Shape	Round	Fuel Use	d	GESEC Bagasse	
Diameter/ Dimensions (m)	4.73	Pressur	e	4.00	
Height (m)		75			
Temperature (°C)	130	Velocity (n	n/s)	7.62	
Gas Volume (Nm³/Hr)		357010.4		7702	
Parameters	Method	Unit	Limit	Result	
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³	150	40.13	
Sulphur Dioxide (SO ₂)	IS 11255 (Dort 2) 2012	mg/Nm³	-	19.20	
	IS 11255 (Part 2) 2019	Kg/day -		164.51	

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

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	TEST REPO	RT			
Test Report No	GESEC/ST/2022-23/02/640		Report Date	03,	/03/2023
Sample ID -	GESEC/ST/2022-23/02/640	247			
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana	wahar Shetkari Sah Ingale, Dist: Kolhar	nakari Sakhar our (Maharasi	Karkhana L	td.,
	Sample Deta			,	
Sample collection Date	Sample receipt Date	Analysis star	rt Date	Analysis	complete Date
24/02/2023	25/02/2023	27/02/20	023		03/2023
	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			10/	10/2025
Stack No/ID	Stack Attached to Sampling done				
01	Stack 2	(75 TPH)			SESEC
Shape	Round	Fuel Use	d	Bagasse	
Diameter/ Dimensions (m)	2.5	Pressur	-	3.00	
Height (m)		72			
Temperature (°C)	125	Velocity (n	n/s)		6.56
Gas Volume (Nm³/Hr)	10000000	86912.11			5.50
Parameters	Method	Unit	Limit		Result
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³	150		38.83
Sulphur Dioxide (SO ₂)		mg/Nm³	-		15.60
1	IS 11255 (Part 2) 2019	Kg/day			32.54

Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/Nm3.

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

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		TEST RE			
Test Report No: -	GESEC	/ANLM/2022-23/02/6	541	A-5	
Sample ID: -	GESEC	GESEC/ANLM/2022-23/02/641		Report Date	03/03/2023
Name & Address of the Customer	M/s. K Hupar	M/s. Kallappanna Awade Jawahar Shetkari Sahaka Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (na Ltd.,
		Ambient Noise Sa	mnle Details		
Туре	Ambier	nt Noise	inpic betails		
Sampling done by	GESEC				
Standard method		IS: 9989:2020			
Date of Sampling	Cama	mla Bassist B			
24/02/2023	Sam	ple Receipt Date	Analysis Start Date		Analysis End Date
Name Of Instrument	Digital	Sound Level Meter	Date Of	Calibration	17/10/2022
Calibration Certificate No.	S			f Calibration	16/10/2023
				+1	
Test Location		Unit	Average Noise	Level Readings	CPCB Standards dB(A)
		Onit	Day (02:30 P.M.)	Night (10:15 P.M.)	
lear Main Gate		dB(A)	63.8	62.1	20.0
lear ETP		dB(A)	64.0	61.5	During Day time =
lear Bagasse Section		dB(A)	66.9	64.2	75 dB (A)
ear Sugar Godown		dB(A)	67.1	66.9	During Night time
1C	ear Cane Yard emark-		70.1	68.9	70 dB(A)

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(A) during the Night Time.

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· · · · · · · · · · · · · · · · · · ·		TEST REPORT		
Test Report No: -	GESEC/WNLM/2022-23/			
Sample ID: -	GESEC/WNLM/2022-23/02/642		Report Date	03/03/2023
1				
Name & Address of the Customer	M/s. Kallappanna Awad Hupari-Yalgud, Tal: Hati	e Jawahar Shetkari S Kanangale, Dist: Koll	Sahakari Sakhar Kark	hana Ltd.,
1992		, - i - i - i - i - i - i - i - i - i -	iapai (ivialiarasiitia)	
• • _	Work Zone	e Noise Sample Deta	ile	
Туре	Work Zone Noise	rioise sample Deta	1113	
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Analysis Start Date		
24/02/2023		Allalysis	Start Date	Analysis End Date
	14111111			
Name of Instrument	Sound Level Meter	Date of (Calibration	
Calibration Certificate No.	SSEC/ME/259	The second of	100000000000000000000000000000000000000	07/10/2022
	3020/11/233	Due Date o	f Calibration	06/10/2023
		A 81.1		
Test Location	Unit	Average Noise	The Factories Act 1948	
*	O.I.I.C	Day (03:10 P.M.)	Night (10:55 P.M.)	standards
Centrifugal Section	dB(A)	80.4	78.2	
Turbine Section	dB(A)	80.2	78.4	×
Boiler Section	dB(A)	85.1	84.7	- 00
Mill Section	dB(A)	86.4	82.9	≤ 90
Pan Section	dB(A)	86.8	83.0	-

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	•8	
Test Report No: GESEC/WW/2022-23/02/643	Report Date		03/03/2023
Sample ID : GESEC/WW/2022-23/02/643	Sample Deta	ils	ETP Inlet
	Type of Sam	ole	Waste Water
Name & Address of the Customer:	Volume Of S	ample	1 Lit plastic bottle
M/s Kallannanna Aurada Isrraha si ut	Sample Statu	IS	Sealed
M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Sample Colle	cted By	GESEC
	Date of Samp	ole Collection	24/02/2023
(Maharashtra)	Sample Rece		25/02/2023
**************************************	Analysis star	Date	27/02/2023
	Analysis End	Date	03/03/2023
Parameters	Results	Unit	Standard Method
рН	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 CI-	911.34	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	746.93	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	14.00	mg/lit	IS 3025 (Part 39), 2019

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	TEST REPORT		
Test Report No: GESEC/WW/2022-23/02/644	Report Date	03/03/2023	
Sample ID : GESEC/WW/2022-23/02/644	Sample Details	ETP Outlet	
Name & Address of the Customer:	Type of Sample	Waste Water	
	Volume Of Sample	1 Lit plastic bottle	
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	24/02/2023	
(Maharashtra)	Sample Receipt Date	25/02/2023	
	Analysis start Date	27/02/2023	
	Analysis End Date	03/03/2023	

Parameters	Results	MPCB LIMIT	Unit	Standard Method
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 23 rd 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 CI-	87.44	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO4	69.86	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL - Below Detectable Limit.

A All parameters are within the MPCB limit.

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	TEST	REPORT			
Test Report No: GESEC/WW/2022-2		Report Da	ite .	03/03/2023	
Sample ID : GESEC/WW/2022-23/02	/645	Sample Details		Factory STP Inlet 50 KLPI	
		Type of Sa	imple	Waste Water	
Name & Address of the Customer:		Volume O	f Sample	1 Lit plastic bottle	
M/s. Kallappanna Awade Jawahar S	hetkari	Sample St	atus	Sealed	
Sahakari Sakhar Karkhana Ltd.,		Sample Co	ollected By	GESEC	
Hupari-Yalgud, Tal: Hatkanangale, D	Dist: Kolhapur		mple Collection	24/02/2023	
(Maharashtra)		Sample Receipt Date		25/02/2023	
		Analysis st	tart Date	27/02/2023	
2		Analysis E	nd Date	03/03/2023	
Parameters	Results	Unit	Stan	dard Method	
pH	6.10			l+,B 23rd Edition.2017	
Suspended Solids (SS)	95.62	mg/lit		40 D 23 rd ED:2017	
Total Dissolved Solids (TDS)	1221.89	mg/lit	APHA 2540,	C,23rd Edition, 2017	
	145.07	n.	IS 3025 (Part 58) , 2019		
	145.07	mg/lit	IS 3025	(Part 58), 2019	
Biochemical Oxygen Demand (BOD)	91.64	mg/lit mg/lit			
Chemical Oxygen Demand (COD) Biochemical Oxygen Demand (BOD) Chlorides as CI	(00000000000000000000000000000000000000		IS 3025	(Part 44), 2019	
Biochemical Oxygen Demand (BOD)	91.64	mg/lit	IS 3025 APHA 4500 CI		

Remark:

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

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	EST REPORT		
Test Report No: GESEC/WW/2022-23/02/646	Report Date	03/03/2023	
Sample ID : GESEC/WW/2022-23/02/646	Sample Details	Factory STP Outlet 50 KLPD	
5: 9:	Type of Sample	Waste Water	
lame & Address of the Customer: 1/s. Kallappanna Awade Jawahar Shetkari ahakari Sakhar Karkhana Ltd.,	Volume Of Sample	1 Lit plastic bottle	
	Sample Status	Sealed	
Sahakari Sakhar Karkhana Ltd.,	Sample Collected By	GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Date of Sample Collection	24/02/2023	
(Maharashtra)	Sample Receipt Date	25/02/2023	
	Analysis start Date	27/02/2023	
	Analysis End Date	03/03/2023	

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.62	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	14.71	100	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	495.62	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	42.10	250	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	16.97	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl	75.42	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄	62.05	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL - Below Detectable Limit.

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TES	ST REPORT	
Test Report No: GESEC/WW/2022-23/02/647	Report Date	03/03/2023
Sample ID : GESEC/WW/2022-23/02/647	Sample Details	Colony STP Inlet 100 KLPD
	Type of Sample	Waste Water
ample ID : GESEC/WW/2022-23/02/647 ame & Address of the Customer: /s. Kallappanna Awade Jawahar Shetkari	Volume Of Sample	1 Lit plastic bottle
	Sample Status	Sealed
Sahakari Sakhar Karkhana Ltd.,	Sample Collected By	GESEC
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Date of Sample Collection	24/02/2023
(Maharashtra)	Sample Receipt Date	25/02/2023
	Analysis start Date	27/02/2023
	Analysis End Date	03/03/2023

Parameters	Results	Unit	Standard Method
pH	6.01		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	102.65	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	1452.98	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	172.63	mg/lit	IS 3025 (Part 58) , 2019
Biochemical Oxygen Demand (BOD)	96.52	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl	186.77	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄	151.34	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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	EST REPORT	
Test Report No: GESEC/WW/2022-23/02/648	ort No: GESEC/WW/2022-23/02/648 D: GESEC/WW/2022-23/02/648 Sample Details Type of Sample Volume Of Sample Sample Status Sakhar Karkhana Ltd., Salgud, Tal: Hatkanangale, Dist: Kolhapur Shtra) Report Date Sample Details Type of Sample Volume Of Sample Sample Status Sample Collected By Date of Sample Collection Sample Receipt Date	03/03/2023
Sample ID : GESEC/WW/2022-23/02/648	Sample Details	Colony STP Outlet 100 KLPD
2	Type of Sample	Waste Water
ame & Address of the Customer: 1/s. Kallappanna Awade Jawahar Shetkari	Volume Of Sample	1 Lit plastic bottle
M/s. Kallappanna Awade Jawahar Shetkari	Sample Status	Sealed
Sahakari Sakhar Karkhana Ltd.,	Sample Collected By	GESEC
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur		24/02/2023
(Maharashtra)		25/02/2023
	Analysis start Date	27/02/2023
	Analysis End Date	03/03/2023

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

Remark:

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	TEST	REPORT			
Test Report No: -	GESEC/WZM/2022-23/02/6	51		an /an /an	
Sample ID: -	GESEC/WZM/2022-23/02/6	51	Report Date	03/03/202	23
Name & Address of the	M/s. Kallappanna Awade Ja				
Customer	Hupari-Yalgud, Tal: Hatkan	angale, Dist: Kolh	apur (Maharash	tra)	
	WORKZONE AIR QUALIT	Y MONITORING	RESULTS		
Туре		ng Location	1200210	Sampling	done by
Ambient Air		Pan Section			EC .
	Sampli	ng Time			
Start Time		Stop Time			Hrs.
11:20 AM.	12:	12:20 PM.		60 Min	
	Metrological Data/En	vironmental Cond	ditions		
Ambient Temperature oc	30.0	Wet Bulb Temperature °C		20.0	
Dry Bulb Temperature oc	30.0	Relative Hui	midity % RH	39.	0
Data of Committee				Who 12 12 12 19	- P2-07 8
Date of Sampling	Sample Receipt Date	Analysis S		Analysis E	
24/02/2023	25/02/2023	27/02	/2023	03/03/	2023
Name of Instrument	Handy Sampler	Date of Ca	alibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1517	Due Date of	Calibration	18/10/	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):	2019	mg/m³	10	0.529
Sulphur Dioxide (SO₂)	IS:5182 (PART 2):	2017	mg/m³	5	0.009
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	mg/m³	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/WZM/2022-23/02/6	52	_		_	
Sample ID: -	GESEC/WZM/2022-23/02/6		Report Date	Sampling w GE Tota 60 20 33 Analysis 03/03 19/10 18/10 NAAQ Standards	23	
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana					
	WORKZONE AIR QUALIT					
Туре			ESULIS	C!		
Ambient Air	Sampling Location Sugar House					
Tanada Tan	Sampl	GES	EC			
Start Time		p Time	T	Total	Шио	
11:30 AM.		30 PM.		60 Min		
	Metrological Data/En		tions	60 N	/1111	
Ambient Temperature oc	30.0	Wet Bulb Temp		20.	n	
Dry Bulb Temperature oc	30.0	Relative Humi		39.		
Date of Sampling	Sample Receipt Date	Analysis Sta	rt Date	Analysis F	nd Date	
24/02/2023	25/02/2023	27/02/2		03/03/		
Name Of Instrument	Personal Sampler	Date of Cali	bration	19/10/	2022	
Calibration Certificate No.	SSEC/FF/1519	Due Date of C	alibration	18/10/	2023	
Parameters	Method		Unit		Result	
articulate Matter (PM)	IS:5182 (PART 4)::	2019	mg/m³	10	0.391	
ulphur Dioxide (SO₂)	IS:5182 (PART 2):	2017	mg/m³	5	0.008	
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	mg/m³	6	0.014	

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	TEST R	EPORT			
Test Report No: -	GESEC/AAQM/2022-23/03/2	248	Report Date	20/03/	2022
Sample ID: -	GESEC/AAQM/2022-23/03/2	248	Report Date	Sampling GES Total 60 M 16. 34. Analysis E 20/03/ 19/10/ 18/10/	2023
			5 J7 12 C SENNING 188		
Name & Address of the	M/s. Kallappanna Awade Ja				
Customer	Hupari-Yalgud, Tal: Hatkana	ingale, Dist: Kolh	apur (Maharashi	ra)	
	Ambient Air S	Sample Details			
Туре		g Location		Sampling	done by
Ambient Air	+	/lain Gate		GESI	EC
	Sampli	ng Time	1		
Start Time	Sto	Stop Time			
10:45 AM.	11:4	11:45 AM.			lin
A Line to the second of the se	Metrological Data/Env	ironmental Con	ditions		
Ambient Temperature °C	26.0			16.0	
Dry Bulb Temperature °C	26.0	Relative Hu	midity % RH	34.	1
Date of Sampling	Sample Receipt Date	Analysis	Start Date	Analysis F	nd Date
14/03/2023	16/03/2023		3/2023	20/03/	
11,00,2020	10,00,000				
Name of Instrument	High Volume Sampler	Date Of C	Calibration	19/10/	2022
Calibration Certificate No.	SSEC/FF/1528	Due Date o	f Calibration	18/10/	2023
	and a		I I mile	NAAQ	Resul
Parameters	Method		Unit	Standards	Kesui
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):	2019	μg/cum	100.00	61.86
Particulate Matter (PM _{2.5})	IS:5182 (PART 24)	:2019	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

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μg/cum

µg/cum

μg/cum

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	TEST R				
Test Report No: -	GESEC/AAQM/2022-23/03/2	49	Report Date	20/03/	2023
Sample ID: -	GESEC/AAQM/2022-23/03/2	49	Report Date	20/03/	
Name & Address of the	M/s. Kallappanna Awade Jav	vahar Shetkari Sa	ahakari Sakhar K	arkhana Ltd.,	
Customer	Hupari-Yalgud, Tal: Hatkana				
9	Ambient Air S	ample Details			
Type	Samplin	g Location		Sampling	done by
Ambient Air		Near ETP			EC
110000000000000000000000000000000000000	Samplir	g Time			
Start Time	Stop Time			Total Hrs.	
10:55 AM.	11:5	5 AM.		60 Min	
	Metrological Data/Env	ironmental Cond	ditions		
Ambient Temperature °C	26.0	Wet Bulb Ter	mperature °C	16.	0
Dry Bulb Temperature °C	26.0	Relative Hui	midity % RH	34.	1
Date of Sampling	Sample Receipt Date	Analysis S	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 C	Of Calibration 19/10,		2022
Calibration Certificate No.	SSEC/FF/1525	Due Date of	Calibration	18/10/	2023
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2	2019	μg/cum	100.00	58.33

Remark

Particulate Matter (PM2.5)

Sulphur Dioxide (SO₂)

Oxides of Nitrogen(NOx)

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

IS:5182 (PART 24):2019

IS:5182 (PART 2):2017

IS:5182 (PART 6):2018



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17.65

11.02

16.89

60.00

80.00

80.00

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	TEST REPORT	**			
Test Report No: -	GESEC/AAQM/2022-23/03/250		Poport Date	20/03/20	122
Sample ID: -	GESEC/AAQM/2022-23/03/250		Report Date	20/03/20	723
Name & Address of the Customer	M/s. Kallappanna Awade Jawahar Hupari-Yalgud, Tal: Hatkanangale,			na Ltd.,	
	Ambient Air Sample	Details			
Туре	Sampling Lo	cation		Sampling do	ne by
Ambient Air	Near Cane	Near Cane Yard			:
	Sampling Tim	e			
Start Time		Stop Time			
11:10 AM.	12:10 PM.			60 Min	
	Metrological Data/Environm	ental Conditions			
Ambient Temperature oc	27.0			16.0	
Dry Bulb Temperature oc	27.0	Relative Humidity % RH		30.3	
Date of Sampling	Sample Receipt Date	Analysis Star	rt Date	Analysis En	d Date
14/03/2023	16/03/2023	16/03/20		20/03/20	
Name Of Instrument	High Volume Combined Sampler	Date Of Calib	oration	19/10/20)22
Calibration Certificate No.	SSEC/FF/1526	Due Date of Ca	libration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Resul
Particulate Matter (PM ₁₀)	IS:5182 (PART 4):2019	9	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:-

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	TEST REPOR	T			
Test Report No	GESEC/ST/2022-23/03/251 Report Date		20/03/2023		
Sample ID -	GESEC/ST/2022-23/03/251				
	1000 0.00				
Name & Address of the Customer	M/s. Kallappanna Awade Jaw Hupari-Yalgud, Tal: Hatkana				
	Sample Deta	ils			
Sample collection Date	Sample receipt Date	Analysis start	Date	Analysis complete Date	
14/03/2023	16/03/2023	16/03/20	23	20/03/2023	
	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 Detai	s			
Stack No/ID	Stack At	ached to		Sampling done by	
01	Stack 1 (9	0+20 TPH)		GESEC	
Shape	Round	Fuel Use	d	Bagasse	
Diameter/ Dimensions (m)	4.73	Pressure	9	3.00	
Height (m)		75			
Temperature (°C)	135	Velocity (n	n/s)	6.64	
Gas Volume (Nm³/Hr)		307279.7	9		
				3	
Parameters	Method	Unit	Limit	SA PARKWA	
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³	150	38.33	
Sulphur Dioxide (SO ₂)	IS 11255 (Part 2) 2019	mg/Nm³	•	15.41	
	13 11233 (Fait 2) 2019	Kg/day	141	113.64	

Remarks-

Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/NM³.

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

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E-mail: environsafetyeng@gmail.com, gesec12@gmail.com

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	TEST REPORT				
Test Report No	GESEC/ST/2022-23/03/252		eport 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: Hatkana	ahar Shetkari Sahakari Igale, Dist: Kolhapur (M	Sakhar Ka Jaharashtr	rkhana Ltd., a)	
(81)	Sample Detai	s			
Sample collection Date	Sample receipt Date	Analysis start Dat	e .	Analysis complete Date	
14/03/2023	16/03/2023	16/03/2023		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	i			
Stack No/ID	Stack At	tached to		Sampling done by	
01	Stack 2	(75 TPH)		GESEC	
Shape	Round	Fuel Used		Bagasse	
Diameter/ Dimensions (m)	2.5	Pressure		4.00	
Height (m)		72			
Temperature (°C)	130	Velocity (m/s)		7.62	
Gas Volume (Nm³/Hr)		99732.95			
	No. ab and	Unit	Limit	Result	
Parameters (CDLA)	Method		150	35.63	
Suspended Particulate Matter (SPM)	IS 11255 (Part 1) 2019	mg/Nm³			
Sulphur Dioxide (SO₂)	IS 11255 (Part 2) 2019	mg/Nm³		12.47	
		Kg/day	-	29.85	

Remarks-

- Maharashtra Pollution Control Board (MPCB) Limits: SPM: 150 mg/Nm³.
- Maharashtra Pollution Control Board (MPCB) Limits: SO2: As per consent.

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	TEST REP	ORT		
Test Report No: -	GESEC/ANLM/2022-23/03/2	GESEC/ANLM/2022-23/03/253 Report Date		
Sample ID: -	GESEC/ANLM/2022-23/03/2	GESEC/ANLM/2022-23/03/253		
Name & Address of the Customer	M/s. Kallappanna Awade Jav Hupari-Yalgud, Tal: Hatkana			a Ltd.,
	Ambient Noise Sar	mple Details		
Туре	Ambient Noise			
Sampling done by	GESEC			
Standard method	As Per IS: 9989:2020			
Date of Sampling	Sample Receipt Date	Sample Receipt Date Analysis Start Date		Analysis End Date
14/03/2023				
Name Of Instrument	Digital Sound Level Meter	Date Of 0	Calibration	17/10/2022
Calibration Certificate No.	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 times -
Near ETP	dB(A)	63.9	60.5	During Day time = 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)
Near Cane Yard	dB(A)	68.0	66.7	7.5 0.5(1.7)

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

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	TEST REPORT		
Test Report No: -	GESEC/WNLM/2022-23/03/254	Barrard Barta	20/02/2022
Sample ID: -	GESEC/WNLM/2022-23/03/254	Report Date	20/03/2023

Name & Address of the Customer

M/s. Kallappanna Awade Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur (Maharashtra)

Type	Work Zone Noise		
Sampling done by	GESEC		
Standard method	As Per IS: 9989:2020		
Date of Sampling	Sample Receipt Date	Analysis Start Date	Analysis End Date
14/03/2023		and en	,
Name of Instrument	Sound Level Meter	Date of Calibration	07/10/2022
Calibration Certificate No.	SSEC/ME/259	Due Date of Calibration	06/10/2023

Work Zone Noise Sample Details

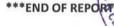
		Average Noise	The Factories Act 1948,	
Test Location	Unit	Day (02:00 P.M.)	Night (11:15 P.M.)	standards
Centrifugal Section	dB(A)	78.9	77.0	
Turbine Section	dB(A)	85.7	82.2	
Boiler Section	dB(A)	86.0	84.7	≤ 90
Mill Section	dB(A)	82.5	80.9	
Pan Section	dB(A)	84.3	81.3	

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/WW/2022-23/03/255	Report Date		20/03/2023	
Sample ID: GESEC/WW/2022-23/03/255	Sample Detai	s	ETP Inlet	
	Type of Samp	le	Waste Water	
Name & Address of the Customer:	Volume Of Sa	mple	1 Lit plastic bottle	
	Sample Status		Sealed	
M/s. Kallappanna Awade Jawahar Shetkari	Sample Collected By		GESEC	
Sahakari Sakhar Karkhana Ltd.,	Date of Sample Collection		14/03/2023	
Hupari-Yalgud, Tal: Hatkanangale, Dist: Kolhapur	Sample Receipt Date		16/03/2023	
(Maharashtra)	Analysis start 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	

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 SO ₄	854.77	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	13.00	mg/lit	IS 3025 (Part 39), 2019

Kande: Mr. Vinod Hande (Technical Manager)

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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		
	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	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		
(manaray)	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:

BDL - Below Detectable Limit. D

A All parameters are within the MPCB limit.

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	TEST	REPORT			
Test Report No: GESEC/WW/2022	2-23/03/257	Report Da	ite	20/03/2023	
Sample ID : GESEC/WW/2022-23,	/03/257	Sample De	etails	Factory STP Inlet 50 KLPI	
		Type of Sa	ample	Waste Water	
term NOTA AND THE ARROWS VIRGINIST CONTROL OF		Volume Of Sample		1 Lit plastic bottle	
Name & Address of the Customer		Sample Status		Sealed	
M/s. Kallappanna Awade Jawaha	r Snetkari	Sample Collected By		GESEC	
Sahakari Sakhar Karkhana Ltd., Hupari-Yalgud, Tal: Hatkanangal	o Dist: Kolhanur	Date of Sample Collection		14/03/2023	
(Maharashtra)	e, Dist. Komapui	Sample Receipt Date		16/03/2023	
(Wallal asilt a)		Analysis start Date		16/03/2023	
		Analysis End Date		20/03/2023	
Parameters	Results	Unit	Star	ndard Method	
mU.	6.26				

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 23 rd 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 SO ₄	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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Т	EST REPORT	
Test Report No: GESEC/WW/2022-23/03/258	Report Date	20/03/2023
Sample ID : GESEC/WW/2022-23/03/258	Sample Details	Factory STP Outlet 50 KLPD
Name & Address of the Customer:	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	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	14/03/2023
(Maharashtra)	Sample Receipt Date	16/03/2023
	Analysis start Date	16/03/2023
	Analysis End Date	20/03/2023

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.58	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.71	100	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	532.40	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	44.63	250	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	17.94	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl	87.63	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄	58.10	1000	mg/lit	APHA 3025 (Part 24) ;2019
Oil & Grease	BDL	10	mg/lit	IS 3025 (Part 39), 2019

Remark:

BDL – Below Detectable Limit.

> All parameters are within the MPCB limit.

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	TEST	REPORT			
Test Report No: GESEC/WW/2022-23	/03/259	Report Dat	te	20/03/2023	
Sample ID : GESEC/WW/2022-23/03/	259	Sample De	tails	Colony STP Inlet 100 KLPD	
		Type of Sai	mple	Waste Water	
	Volume Of	Sample	1 Lit plastic bottle		
Name & Address of the Customer: M/s. Kallappanna Awade Jawahar Sh	Sample Sta	itus	Sealed		
Sahakari Sakhar Karkhana Ltd.,	ескагі	Sample Collected By		GESEC	
Hupari-Yalgud, Tal: Hatkanangale, Di	ist: Kolhapur	Date of Sar	mple Collection	14/03/2023	
Maharashtra)		Sample Receipt Date		16/03/2023	
	•		art Date	16/03/2023	
		Analysis En	nd Date	20/03/2023	
Parameters	Results	Unit	Sta	ndard Method	
pH	6.12		APHA 4500	H+,B 23rd Edition.2017	
Suspended Solids (SS)	117.42	mg/lit	APHA 2540 D 23 rd 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 302	5 (Part 58) , 2019	
Biochemical Oxygen Demand (BOD)	102.47	mg/lit	IS 3025 (Part 44), 2019		
			APHA 4500 Cl- B,23rd Edition, 2017		
Chlorides as Cl ⁻	215.96	mg/lit	APHA 4500 (Cl- B,23rd Edition, 2017	
Chlorides as Cl ⁻ Sulphates as SO ₄	215.96 174.50	mg/lit mg/lit		Cl- B,23rd Edition, 2017 025 (Part 24) ;2019	

Remark:

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

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Т	EST REPORT	
Test Report No: GESEC/WW/2022-23/03/260	Report Date	20/03/2023
Sample ID : GESEC/WW/2022-23/03/260	Sample Details	Colony STP Outlet 100 KLPD
Name & Address of the Customer:	Type of Sample	Waste Water
	Volume Of Sample	1 Lit plastic bottle
	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	14/03/2023
(Maharashtra)	Sample Receipt Date	16/03/2023
(ividilal asilti a)	Analysis start Date	16/03/2023
	Analysis End Date	20/03/2023

Parameters	Results	MPCB LIMIT	Unit	Standard Method
pH	7.48	6.5-8.5		APHA 4500 H+,B 23rd Edition.2017
Suspended Solids (SS)	16.09	100	mg/lit	APHA 2540 D 23 rd ED:2017
Total Dissolved Solids (TDS)	611.84	2100	mg/lit	APHA 2540,C,23rd Edition, 2017
Chemical Oxygen Demand (COD)	48.73	250	mg/lit	IS 3025 (Part 58), 2019
Biochemical Oxygen Demand (BOD)	19.50	100	mg/lit	IS 3025 (Part 44), 2019
Chlorides as Cl ⁻	102.69	600	mg/lit	APHA 4500 Cl- B,23rd Edition, 2017
Sulphates as SO ₄	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.

> All parameters are within the MPCB limit.

Mr. Vinod

GREEN ENLIROS A

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

***END OF REPORTORS

Terms and conditions

The report is refer only to the sample tested and not applies to the bulk.

2. The results shown in this test report may differ based on various factors including temperature, humidity, pressure, retention time etc.

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4. 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.

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

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

	TEST	REPORT			
Test Report No: -	GESEC/WZM/2022-23/03/2	.61	_		
Sample ID: -	GESEC/WZM/2022-23/03/2		Report Date	20/03/2023	
Name & Address of the	M/s. Kallappanna Awade Ja	wahar Shetkari Sa	hakari Sakhar K	arkhana Ltd	
Customer	Hupari-Yalgud, Tal: Hatkan	angale, Dist: Kolha	pur (Maharash	tra)	
	WORKZONE AIR QUALIT	TY MONITORING RI	ESULTS		
Туре	Sampli	ng Location		Sampling	done by
Ambient Air	Pan	Section		GES	EC
	Sampl	ing Time			
Start Time	Stop Time			Total Hrs.	
11:20 AM.	12:20 PM.			60 Min	
	Metrological Data/En	vironmental Condi	tions		
Ambient Temperature oc	32.0	Wet Bulb Temperature °C		12.0	
Dry Bulb Temperature oc	32.0	Relative Humidity % RH		32.0	
Date of Sampling	Sample Receipt Date	Analysis Sta	art Date	Analysis E	nd Date
14/03/2023	16/03/2023	16/03/2		20/03/2023	
	- No. 18			20/03/	2025
Name of Instrument	Handy Sampler	Date of Cal	Date of Calibration 19/10		2022
Calibration Certificate No.	SSEC/FF/1517	Due Date of C	alibration	18/10/	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):	2019	mg/m³	10	0.487
Sulphur Dioxide (SO ₂)	IS:5182 (PART 2):	2017	mg/m³	5	0.010
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	mg/m³	6	0.013

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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***END OF REPORTS

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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 eers & Consultant Pvt Ltd. E-mail: environsafetyeng@gmail.com, gesec12@gmail.com | www.greenenvirosafe.co.in

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	TEST	REPORT			
Test Report No: -	GESEC/WZM/2022-23/03/2	62		9 10	
Sample ID: -	GESEC/WZM/2022-23/03/262		Report Date	20/03/2023	
Name & Address of the Customer	M/s. Kallappanna Awade Ja Hupari-Yalgud, Tal: Hatkana				
	WORKZONE AIR QUALIT	TY MONITORING RE	SULTS		
Туре		ng Location		Sampling wa	s donee by
Ambient Air		r House		GES	
		ing Time			ATT. VIET
Start Time	Sto	Total Hrs.			
11:30 AM.	12:30 PM.			60 N	
	Metrological Data/En	vironmental Condit	ions		
Ambient Temperature oc	32.0	Wet Bulb Temperature °C		12.	.0
Dry Bulb Temperature oc	32.0	Relative Humidity % RH		32.0	
Date of Sampling	Sample Receipt Date	Analysis Star	rt Date	Analysis E	nd Date
14/03/2023	16/03/2023	16/03/20		20/03/2023	
Name Of Instrument	Personal Sampler	Date of Calib	ration	ration 19/10/2022	
Calibration Certificate No.	SSEC/FF/1519	Due Date of Ca	libration	18/10/2023	
Parameters	Method		Unit	NAAQ Standards	Result
Particulate Matter (PM)	IS:5182 (PART 4):	2019	mg/m³	10	0.374
ulphur Dioxide (SO ₂)	IS:5182 (PART 2):2	2017	mg/m³	5	0.007
Oxides of Nitrogen(NO _x)	IS:5182 (PART 6):	2018	mg/m³	6	0.012

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

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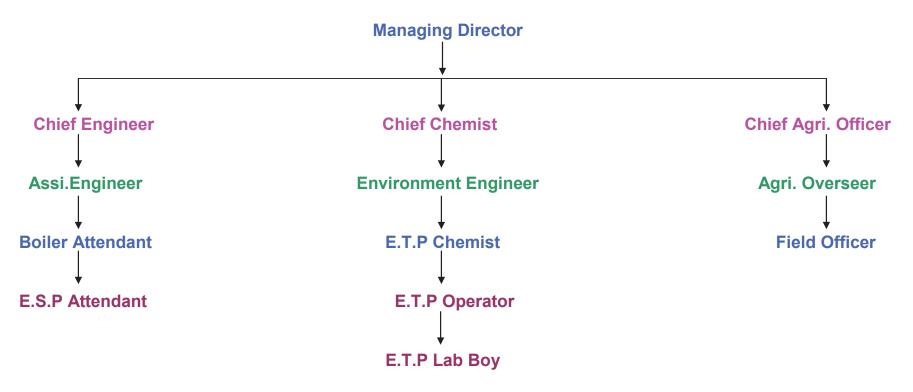
5. We strictly maintain the confidentiality of all test result of sample(s) collected by us/ supplied by customer and not revel to third party unless required by the statutory or legal requirement.

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









































KALLAPPANNA AWADE JAWAHAR S.S.S. KARKHANA LTD.,

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

Date: 12/10/2023

Karkhana site Tree Plantation Details

Sr.No	Particulars	Nos of Tree
Α	Fruit Plant	
1.	Coconut	603
2.	Mango	350
. 3.	Chikku	156
· . · · · · .	Total	1109
В	Forest Tree	4 7 76 7
1.	Rain Tree	3700
2.	Cassia	1752
3.	Chinch	78
4.	Kadaumb	17
5.	Subabhul	830
6.	Badam	46
7.	Saptparni	32
8.	Chandan	45
9.	Sag	14
10.	Suru	1000
11.	Nimb & Others	3798
12.	Tubobia	12
13.	Palas	14
14.	Gorham Chinch	558
15.	Silver Oak	. 2000
16.	Spathodia	36
17.	Wad	70
18.	Pimpal	125
19.	Nile Mohar	42
20.	Bahawa	140
21.	Gulmohar	409
22.	Kanchan	133
23.	Nilgiri	3930
24.	Umber	62
25.	Phanas	15
26.	Bel	05
27.	Australian babul	300
30.	Gul bhendi	507
31.	Karanj	2239
32.	Jambhul	100
33.	Paletoforum	. 250
34.	Bambu	30634
35	Katesawar	320
	Total	53213

Sr.No	Particulars	· Nos of Plant
С	Decorative Tree	6 5 5 2 3 5x
1. 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
. E g /	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

otal Summa	ry of tree plantation-	
Α	Fruit Tree	1109
В	Forest Tree	53213
С	Decorative Tree	6715
D	Flower Tree	8242
	Total Tree Plantation	69279

Chief Agri. Officer

KALLAPPANNA AWADE JAWAHAR S.S.S. KARKHANA LTD.,

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

Date: 12/10/2023

AREAWISE TREE PLANTATION INFORMATION

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