

# JAWAHAR SHETKARI SAHAKARI SAKHAR KARKHANA LTD., HUPARI

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

Phone (0230) 2450402, Fax (0230) 2450401

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

Ref. No. MFG/ETP/8186/2022

Date: - 21/11/2022

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 2022 to September 2022 w.r.t Co-gen Unit of 28.5 MW – **Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari.** Shri Kallappa Anna 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,

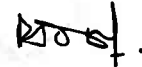
This has reference to Environmental Clearance (EC) granted to our Co-gen Unit of 28.5 MW – **Jawahar Shetkari Sahakari Sakhar Karkhana Ltd., Hupari** Shri Kallappa Anna Awadenagar, Hupari-Yalgud, Tal.: Hatkanangale, Dist.: Kolhapur, Maharashtra State.

We are submitting a six monthly compliance report for a period of April 2022 to September 2022.

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

Thanking you,

Yours Faithfully,



(M.G. Joshi)  
Managing Director

Encl. - As above

**Copy for information to:-**

1. Sh. Bharat Kr. Sharma  
Scientist 'F'  
Central Pollution Control Board,  
Pune  
Email – [bksharma.cpcb@nic.in](mailto:bksharma.cpcb@nic.in)
  
2. Member Secretary,  
Maharashtra Pollution Control Board,  
Kalpataru Point, 3<sup>rd</sup> & 4<sup>th</sup> Floor,  
Opp.Cine Planet,  
Near Sion Circle, Sion (E),  
Mumbai (Maharashtra) - 400 022.  
Email – [mpcbmumbai@mpcb.gov.in](mailto:mpcbmumbai@mpcb.gov.in)
  
3. Regional Officer,  
Maharashtra Pollution Control Board,  
Udyog Bhavan Building,  
Naer Collector Office,  
Kolhapur- 416 002.  
Email – [rokolhapur@mpcb.gov.com](mailto:rokolhapur@mpcb.gov.com)

**Enclosure - I**  
**Environment Clearance Copy**

GOVERNMENT OF MAHARASHTRA

☎ 2285 50 82  
☎ 2202 59 48

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

Dated : 27 AUG 2007

To,

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

Sub : Environment clearance.

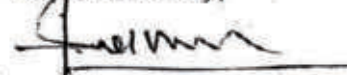
Sir,

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

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

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

Yours faithfully,



(Surendra Jadhav)

Deputy Secretary to Government

ENCL : As above.

JAWAHAR SSSK LTD.. HUP..
IW No. 2292 Date 1/9/07
Sent To MD
Upo ADM, Chemical Engg, CHE,
Secretary / Managing Director.



1. The Project Authority shall take adequate safety precautions in handling the raw materials, plant and machinery and the products of the processes so as to avoid any damage / loss of property, or environment.
2. The Project Authority shall provide personal protective equipments, impart training and medical facilities to the workers handling the hazardous / dangerous raw materials, finished products or processes.
3. The Project Authority shall prepare the on-site disaster management plan and should submit to the Director, Industrial Safety and Health. The copies of which shall also be submitted to the District Collector, Local Authority, Maharashtra Pollution Control Board (MPCB) and the Environment Department, Government of Maharashtra. The Project Authority shall submit the information to the Director, Industrial Safety and Health for the preparation of the off-site disaster management plan. The Project Authority should carry out periodical rehearsal of the on-site disaster management plan.
4. The Project Authority shall comply with all statutory requirements for safe transportation of raw materials / finished products in case of trucks / tankers carrying hazardous raw 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 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 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 be utilized for land irrigation / gardening on the land owned by the Project Authority, the sufficient area should be earmarked for the same purpose in consultation with the Agriculture Department. Under no circumstances, such an effluent should be allowed to flow outside the premises of the project. During Monsoon, on heavy rainfall period, if the treated effluent can not be absorbed in the project land and there is likelihood of the effluent going into the nearby areas, the respective unit should be put out of operation immediately. For the purpose of effluent disposal, mechanical system (Sprinkler etc.) and shall make adequate arrangements for the storage of excessive effluent (impervious storage tank etc.) in consultation with MPCB.
8. The Project Authority shall regularly and periodically undertake soil testing of the land which are being used for the disposal of the effluent and shall also undertake periodical and regular testing of water sources in the vicinity of the project.
9. The Project Authority shall control the air emissions as per the standards prescribed by MPCB. No change in the design of stack and fuel mix be done without the permission of MPCB. Minimum number of air quality monitoring



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

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

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## **A Report on Compliance of Conditions in the Environmental Clearance (EC) issued by MoEFCC; New Delhi for Cogeneration plant of 28.5 MW**

### **A. Brief Summary of the Project**

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

Type of Project : 28.5 MW Cogeneration plant

Clearance Letter No. & date : ENV (NOC) 2005/1591/CR224/TC-II, dated 27.08.2007

**Enclosure – I**

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

### **B. Status of Condition Compliance:**

Compliance of Specific and General Conditions mentioned in Environmental Clearance (EC) letter vide no. ENV (NOC) 2005/1591/CR224/TC-II, dated 27<sup>th</sup>August 2007is presented as follows-

No.	Environmental Clearance Conditions	Compliance towards the Conditions Stipulated
1	<p><b>Condition No.1</b> 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/ loss of property or environment.</p>	<p>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 &amp; provided fire-fighting system infrastructure comprising of fire water lines, fire hydrants, fire tender, fire extinguishers etc. at all strategic &amp; fire prone areas in the industry, bagasse yard, molasses storage section etc. The firefighting arrangements have been provided on site as per Factories Act. Regular firefighting mock drills are conducted to train workers for fire hazards. Latest mock drill was carried out on <b>25.01.2022</b>. Photographs of Firefighting system, Mock drill, Boiler interlocks is enclosed at <b>Annexure – I</b>.</p>
2	<p><b>Condition No.2</b> 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.</p>	<p>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 03.09.2021 to 02/09/2022 is enclosed at <b>Annexure - II</b>.</p>



3	<p><b>Condition No.3</b></p> <p>The Project Authority shall prepare the on-site disaster management plan and should submit to the Director, Industrial Safety and Health. The copies of which shall also be submitted to the District Collector, Local Authority, Maharashtra Pollution Control Board (MPCB) and the Environment Department, Government of Maharashtra. The Project Authority shall submit the information to the Director, Industrial Safety and Health for preparation of the off-site disaster management plan. The Project Authority should carry out periodical rehearsal of the on-site disaster management plan.</p>	<p>Risk Assessment Report have already prepared for entire project complex. Therein, identification of hazard and migration measures have been suggested. Moreover, the fire hazard areas like bagasse storage yard, switch yard etc. have been provided with appropriate firefighting arrangement. Periodic mock drills are conducted for imparting training on handling hazardous situations and handling of firefighting equipments. Latest Mock drill was conducted on <b>25.01.2022</b>. Photographs of Firefighting system and Mock drill is enclosed at <b>Annexure I</b>.</p>
4	<p><b>Condition No.4</b></p> <p>The Project Authority shall comply with all statutory requirements for safe transportation of raw materials/ finished products in case of trucks/tankers carrying hazardous raw material shall be washed and cleaned up within the plant premises, so as to ensure no pollution in the vicinity.</p>	<p>Not applicable. Since electricity generated is directly fed to MSEB grid.</p>
5	<p><b>Condition No.5</b></p> <p>The Project Authority shall be use cleaner technology for the manufacturing process and the clean fuel for the operations so as to reduce process waste, liquid effluents and gaseous emissions.</p>	<p>In Co-gen plant electricity is generated using steam from boiler. Bagasse is used as fuel for steam generation, which is one of the process waste of sugar factory. Moreover, excess condensate water from sugar factory is used in process.</p>
6	<p><b>Condition No.6</b></p> <p>The Project Authority shall treat the liquid effluents so as to confirm to the standards prescribed by MPCB. The disposal of the treated effluent shall be in accordance with the conditions imposed by MPCB / GOM (Government of Maharashtra / Government of India). The continuous monitoring facility for the effluent should be provided by the project authority. If the effluent quality exceeds the standards at any time, the corresponding units of the plant which are contributing the excessive pollutant load shall</p>	<p>Effluent generated from Co-gen plant operation is forwarded to sugar factory ETP. The same is treated in state of art effluent treatment plant. The treated effluent is used for gardening and development of green belt in own factory premises. OCMS is installed for ETP. Moreover, STP's of capacity 100 KLPD and 50 KLPD has been installed on site for treatment of domestic effluent. Flow sheet and Photographs of ETP as well as that of STP is enclosed at <b>Annexure –III</b></p>

	<p>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.</p>	
7	<p><b>Condition No.7</b>  In case of the treated effluent is proposed to be 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 consultation with MPCB.</p>	<p>No effluent is discharge outside industrial premises. The treated effluent is being recycled and use for gardening in premises. Online monitoring system as well as flow meter 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 <b>Annexure –III</b>.</p>
8	<p><b>Condition No.8</b>  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.</p>	<p>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.</p>
9	<p><b>Condition No.9</b>  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</p>	<p>ESPs as APC are provided followed by stack height of 75M (common for 90 TPH and 20 TPH) &amp; 72M for 75 TPH boiler to control particulate matter and Gaseous pollutants. As per latest guidelines of CPCB, online monitoring system (OCMS) has been installed for boiler. Moreover, industry conducts self-monitoring w.r.t. Ambient Air, Stack Emissions, Noise as well as analysis of</p>

	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.	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 <b>Annexure- IV</b>
10	<p><b>Condition No.10</b></p> <p>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.</p>	<p>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 <b>Annexure IV</b></p>
11	<p><b>Condition No.11</b></p> <p>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).</p>	<p>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.</p>
12	<p><b>Condition No. 12</b></p> <p>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).</p>	<p>Major noise generating source are Boiler, Turbine, D.G. Set etc. The overall noise level in the around the plant area are maintained within the standards prescribed under Environment (Protection) Act, 1986 Rules. Workers working in noisy area are provided with personal protective equipment's such as earplug, earmuffs etc. The measures adopted under existing unit for controlling the same are proper housekeeping, sludge management in biological ETP units, steaming of major pipe lines, regular use of bleaching powder in the drains, efficient handling, prompt &amp; proper disposal of press mud. No any radioactive substances are used in Co-gen plant.</p>



13	<p><b>Condition No. 13</b> 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.</p>	<p>The industry has an Environmental Management Cell (EMC) functioning. Members of the EMC are well qualified and experienced in their concerned fields. A separate Environment Management cell is already established. Structure of EMC is enclosed at <b>Annexure - V</b></p>
14	<p><b>Condition No. 14</b> 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.</p>	<p>Noted.</p>
15	<p><b>Condition No. 15</b> Tree plantation programs should be undertaken at the rate of not less than 2500 trees per ha on the factory land, in consultation with the Forest Department of the state Government and MPCB.</p>	<p>Total Plot area of JSSSKL is 99.57 Ha. Industry has developed a green belt on area of 39.9 Ha. This comes to about 40% of total plot area. Total 69279 Nos. of trees have been planted in the factory premises. Which includes evergreen &amp; pollution resistant species like Silver Oak, Rain tree, Neem, Suru, Saag etc have been planted. Avenue plantation, shelter belt plantation, mass plantation&amp; pocket plantation has been done on site.Details and Photographs of Green belt is enclosed at <b>Annexure VI</b>.</p>
16	<p><b>Condition No. 16</b> 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.</p>	<p>The Condition is followed by industry.</p>
17	<p><b>Condition No. 17</b> The Project Authority must strictly adhere to the stipulations made by MPCB/ Government of Maharashtra/ Government of India. The</p>	<p>Industry is strictly following all the stipulations made by the Central Pollution Control Board (CPCB) as well as</p>

	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.	Maharashtra State Pollution Control Board (MPCB).
18	<b>Condition No. 18</b> The Company should use a treated effluent for afforestation and create a green belt around the factory premises with necessary fencing around it.	Effluent is treated in existing sugar factory ETP. Treated effluent is used for gardening and development of Green belt purpose in the industrial premises.