

YASHWANTRAO MOHITE KRISHNA SAHAKARI SAKHAR KARKHANA LTD; RETHARE BK.

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Ref. No.

7738Date : **22 MAR 2025**

To
 Deputy Director General of Forest (Central),
 West Central Zone,
 Regional Office, New Secretariat Building,
 Opp. VCA Ground, Civil Lines, Nagpur-440001,

Subject : Submission of Six-monthly (Jul 2023 to Dec 2023) report for M/s.
 Yashwantrao Mohite Krishana Sahakari Sakhar Karkhana Ltd.,
 At : Rethare BK Tal : Karad, Dist. - Satara, Maharashtra.
 (Sugar and Distillery Unit)

Reference : 1. EC No. J-11011/3/2002-A II (I) dated 20th Feb 2003
 2. EC No. ENV(NOC).1098/109/CR.8/TC.2 dated 21st December 2000
 3. EC No. ENV(NOC)2004/484/CR.77/D.I dated 20th April 2005

Dear Sir,

We have granted EC as mention in reference, Ref-1: **Compliance of the Environmental Clearance conditions of the Distillery unit from 75 KLPD to 95 KLPD, Vide letter No. J-11011/3/2002-A II (I) dated 20th Feb 2003.**

Ref-2: **Compliance of the Environmental Clearance conditions of the Bagasse Based 16 MW Co-generation Project. Env. Clearance No. ENV(NOC).1098/109/CR.8/TC.2 dated 21st December 2000.**

Ref-3: **Compliance of the Environmental Clearance conditions of the Sugar factory from 5000 TCD to 7500 TCD, Env. Clearance No. ENV(NOC)2004/484/CR.77/D.I dated 20th April 2005.** Which are running very smoothly.

As required, we are submitting six monthly compliance report for your record as follows;

I. Data Sheet

(a.i.1.a) Annexure I – Salient features of the project

(a.i.1.b) Annexure II – Salient features of Environmental Management Plan

(a.i.1.c) Annexure III – Budget allocated for EMP

II. Six monthly EC Compliance Report (Jul 2023 to Dec 2023)

III. Other Details (Monitoring reports – AAQM, Online Stack Monitoring Data)

Kindly receive all above for your record.

Thanking you.

Yours Faithfully

For M/s. Yashwatnrao Mohite Krishana Sahakari Sakhar Karkhana Ltd.,

A handwritten signature in blue ink, consisting of a stylized 'G' followed by a horizontal line.

Authorized Signatory

Six Monthly Compliance Report
(Jul 2023 to Dec 2023)

Part – I: Data sheet

1.	Project type: River - valley/ Mining / Industry / Thermal / Nuclear / Other (specify)		:	Industry	
2.	Name of the project		:	Yashwatnrao Mohite Krishana Sahakari Sakhar Karkhana Ltd.,	
3.	Clearance letter (s) / OM No. and Date		:	As Above	
4.	Location		:	At : Rethare BK Tal : Karad,	
	a.	District (S)	:	Satara	
	b.	State (s)	:	Maharashtra	
	c.	Latitude/ Longitude	:	Latitude	18° 25' 39.74" N
				Longitude	74° 37' 59.44" E
5.	Address for correspondence		:		
	a.	Address of Concerned Project Chief Engineer (with pin code & Telephone / telex / fax numbers	:	Mr. Balaji Pabsetwar At : Rethare BK Tal : Karad, Dist – Satara, Pin – 415 109 Tel. No. :- 02164 266222	
	b.	Address of Executive Project: Engineer/Manager(with pin code / Fax numbers)	:	Mr. Balaji Pabsetwar At : Rethare BK Tal : Karad, Dist – Satara, Pin – 415 109 Tel. No. :- 02164 266222	
6.	Salient features		:		
	a.	of the project	:	Enclose Annexure I	
	b.	of the environmental management plans	:	Enclose Annexure II	
7.	Break up of the project area		:		
	a.	submergence area forest & non-forest	:	N.A.	

	b.	Others		Total Plot Area:-232796 Sq.m Total Built up :- 85350 Sq.M Area Under Road:- 534.08 Sq.M Parking :-11029 Sq.M Green belt :- 251271 Sq.M
8.		Breakup of the project affected Population with enumeration of Those losing houses / dwelling units Only agricultural land only, both Dwelling units & agricultural Land & landless labourers/artisan	:	N.A. (Land secured by proper procedure of Land Acquisition Act under Collector, Pune. Proper compensation paid. No complaints have arisen.)
	a.	SC, ST/Adivasis	:	--
	b.	Others (Please indicate whether these Figures are based on any scientific And systematic survey carried out Or only provisional figures, it a Survey is carried out give details And years of survey)	:	Land is procured about 70 years back.
9.		Financial details	:	
	a.	Total Cost of the Project	:	As per the CA certificate Sugar & Cogen unit- 47778.94 (In Lacs) Distillery 7167.94 (In Lacs)
	b.	Allocation made for environmental management plans with item wise and year wise Break-up.	:	Capital : Rs. 50 Cr Recurring: Rs. 2.5 Cr. Enclosed - Annexure III
	c.	Benefit cost ratio / Internal rate of Return and the year of assessment	:	The project is found beneficial to the local farmers and society in vicinity.
	d.	Whether (c) includes the cost of environmental management as shown in the above.	:	The environment management cost as earmarked is fully spent only for that purpose.
	e.	Actual expenditure incurred on the project so far	:	The project now stands totally completed.

	f.	Actual expenditure incurred on the environmental management plans so far		The Environment Management Plan now stands totally completed.
10.	Forest land requirement		:	NA
	a.	The status of approval for diversion of forest land for non-forestry use	:	
	b.	The status of clearing felling	:	
	c.	The status of compensatory afforestation, if any	:	
	d.	Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	:	
11.	The status of clear felling in Non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information		:	Responsible care was taken to see that the project orientation was so done that no trees were required to be disturbed.
12.	Status of construction		:	
	a.	Date of commencement (Actual and/or planned)	:	
	b.	Date of completion (Actual and/or planned)	:	
13.	Reasons for the delay if the Project is yet to start		:	NA
14	Dates of site visits		:	
	a.	The dates on which the project was monitored by the Regional Office on previous Occasions, if any	:	NA
	b.	Date of site visit for this monitoring report	:	Date :- 14.11.2023
15.	Details of correspondence with Project authorities for obtaining Action		:	Whatever information was asked by MPCB is properly attended time to time

	plans/information on Status of compliance to safeguards Other than the routine letters for Logistic support for site visits)		
	(The first monitoring report may contain the details of all the Letters issued so far, but the Later reports may cover only the Letters issued subsequently.)	:	--

Annexure I : Silent Features of the Project

Name & Location	:	M/s. Yashwatnrao Mohite Krishana Sahakari Sakhar Karkhana Ltd., At : Rethare BK Tal : Karad, Dist. - Satara, Maharashtra.
Contact Details	:	Mr.Suyog Khanvilkar Phone :- 9482552809 Email :- ymkrishnassk@rediffmail.com
Total no. Of workers to be employed during the construction phase.	:	Peak : 1255 Nos. Average: 1022 Nos. Sp. Note - Construction is completed
Total no. Of workers to be employed during the operational phase.	:	Peak : 1055 Nos. Average: 960 Nos. Sp. Note - Operation is started
Total Project cost	:	Rs. 54946.88 Cr.
Distillery Capacity	:	145 KLPD Molasses based distillery in an integrated complex of 7500 TCD Sugar Factory and 16 MW Co-gen plant
Number of Operational days	:	270 Day
Water Requirement and Sources	:	Fresh 1255 m ³ /day from Krishna River
Effluent generated	:	ZLD
Sewage generated	:	3 m ³ /day
Power	:	1440 KWH/day
Gaseous emissions	:	SPM limit 50 mg/Nm ³ from ESP
Solid waste from : 1. Fermentation Sludge	:	30 MT/A, using for composting for as a manure.

Annexure II : Salient features of Environmental Management Plan

Air Pollution Abatement:

Boiler is provided with ESP as Air Pollution Control System. Working capacity of ESP is around 95% to 98%. The stack height is 72 meters. Online monitoring system is provided to measure the particulate matter emission. The average particulate matter reading is around 20 to 35 mg/Nm³.

Water Pollution Abatement:

- For spent wash is treated with Bio-digester, followed by MEE, followed by Composting provided to achieve ZLD.
- Leachate proof Lagoon is provided for required >30 days storage capacity.

Noise Pollution Abatement:

- Machines are provided with sturdy foundation to avoid vibration and sound.
- Machines are safe guard.
- Trees are planted along the boundary wall as noise barriers.
- Acoustic enclosures provided for DG sets.
- Vehicular traffic, alcohol tankers are encouraged only in the day-time.
- Roads are maintained levelled and smooth.

Solid Waste Abatement:

- Yeast Sludge – 22.9 MT/A is generated & it is used as manure.
- Used Spent oil – 0.830 MT/A Reuse in own boiler as fuel,
- Fly/Boiler ash – 52.00 MT/M using bio-composting

Odour:

- Fermentation tank is closed.
- Bio-digester is covered,
- No solar evaporation ponds.

Annexure III : Budget allocated for EMP

During Construction phase: Phase Completed

The construction phase is over. At the time of construction, the EMP budget planned was properly spent to the allocated segments.

During Operational phase:

Proper EMP is planned for the operational phase for which budget is approved by the management and EMP is executing by Environmental cell headed by Environmental Officer, in close loop with Top Management and Environment Consultant. The details of the budget allocation for EMP is tabulated below

Sr.	Budget Allocated For	Plan Budget in Rs. Cr.		Actual Budget in Rs. Cr.	
		Capital Investment	Recurring cost per year	Actual Budget	Recurring cost per year
1	Air Pollution Abatement	13.40	2.53	12.37	1.30
2	Spent wash Treatment Facility -Spent wash Storage tanks, MEE, Blending Mechanism and Incineration Boiler, Condensate Polishing Units.	95.89	15.40	86.83	11.30
3	Noise Pollution Control	2.89	1.12	2.30	0.6
4	Environmental Monitoring & Management (Online etc.)	7.56	2.10	5.36	0.65
5	Occupational Health and Safety	2.30	0.80	1.41	0.15
6.	Green Belt Development & Rain Water Harvesting	5.60	1.30	4.30	0.45
7.	Provision towards CER	10.10	2.40	6.30	0.36
	TOTAL	Rs. 137.74	Rs. 25.65	Rs. 118.87	Rs. 14.81

Six monthly EC Compliance Report (Jul 2023 to Dec 2023)

EC granted ;, Ref-1: Compliance of the Environmental Clearance conditions of the Distillery unit from 75 KLPD to 95 KLPD, Vide letter No. J-11011/3/2002-A II (I) dated 20th Feb 2003.

Ref-2: Compliance of the Environmental Clearance conditions of the Bagasse Based 16 MW Co-generation Project. Env. Clearance No. ENV(NOC).1098/109/CR.8/TC.2 dated 21st December 2000.

Ref-3: Compliance of the Environmental Clearance conditions of the Sugar factory from 5000 TCD to 7500 TCD, Env. Clearance No. ENV(NOC)2004/484/CR.77/D.I dated 20th April 2005. Which are running very smoothly.

EC granted for : 95 KLPD Distillery, 7500 TCD Sugar & 16 MW Co-gen
Power production is now commenced

Submission : The present statistics is generally in agreement with
the figures stated in paragraph 2 and 3 of the EC.

**Conditions of Compliance for The Expansion of The Distillery Unit
From 75 KLPD To 95 KLPD**

Sr.	EC Conditions	Compliance
A	SPECIFIC CONDITION	
i	The industry shall that the treated effluent and stack emission from the unit are within the norms stipulated under EPA rules of SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment by the unit, respective units shall be shutdown and shall not restarted until the control measures are rectified to achieve the desired efficiency.	The treated effluents and stack Emissions are meeting the SPCB standards. which are prescribed under EPA rules. The summarized results are enclosed in Annexure-I Noted
ii	As the company is adopting batch fermentation technology, generation of Spentwash should be brought down to 575 KLPD by installation of reboiler and multiple effect reboiler system to ensure that the Spentwash generation should be less than 8 kl/kl rectified spirit production.	The spent wash generation is 770 m ³ /day and is treated by Biomethanation followed by MEE and the Spentwash quality is less than 8 kl/kl rectified spirit production. The concentrated Spent wash is composted using press mud as filler material.
iii	The company shall install filter in series with the existing multi cyclone mechanical dust collectors attached to all the four stack to comply with stack emission norms stipulated by MSPCB for boiler stack emission from sugar unit.	Complied.
iv	As reflected in the Environmental Management plan, the spentwash generated shall be treated with press mud followed by composting. Land and other requirements for treatment of spentwash with press mud should be as per the CPCB guidelines. The company should earmark 40acres of land required for composting for treatment of 100% of spentwash generated from the distillery unit. The compost yard should be made seepage proof before allowing distillery to operate at expanded capacity. Spentwash should be stored in impervious lagoons. As per the CPCB recommendation, storage should not exceed 30 days capacity.	Complied Spent wash is treated by Biomethanation followed by MEE and the concentrated Spent wash is composted using press mud as filler material as CPCB guidelines. The company has 40 acres of land for composting plant. The compost yard is made see page proof as per CPCB guidelines. Distillery: 30 days Spent wash storage tank as per CPCB guidelines "Composting" yard is concreted.

v	The company must set up adequate number of ground water quality monitoring stations to monitor the ground water quality in the compost and project area. Sampling and tread analysis must be on monthly basis and submit half-yearly report to SPCB and the Ministry.	Being Implemented
vi	The company should undertake rainwater measures to recharge the ground water aquifer.	Being Implemented
vii	The company should obtain approval from the State Government for sugar factory crushing expansion from 5000 to 7500 TCD prior to commissioning the distillery expansion to ensure that the estimated quantity of press mud is available for composting spentwash.	Noted & complied
viii	As reflected in the EIA/EMP, green belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the plant as per the CPCB guidelines in consultation with the local DFO .	Complied
ix	Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the medical records of each employee should be separated.	Complied

GENERAL CONDITIONS		
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra State Pollution Control Board and State Government .	Noted and complied
ii	No further expansion / modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.	Noted
iii	Ambient air quality monitoring stations should be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO ₂ , and NO _x , are anticipated in consultation with the State Pollution Control Board.	Complied Results are given in Annexure I
iv	Adequate number of influent and effluent quality monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameter.	Complied Results are given in Annexure I
v	The overall noise levels in and around the plant area should be kept well within the standards (85dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels should confirm to the standards prescribed under EPA, Rules, 1989 viz 75 dBA (day time) 70 dBA (night time).	Complied Results are given in Annexure I
vi	The project proponent shall also comply with all the Environmental protection measures and safeguards recommended in the EIA report.	Complied.
vii	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. The project authorities will be provide adequate funds both recurring and non recurring to implement the conditions stipulated by the ministry of Environment ,Forest as well as state government along with the implementation schedule for all the conditions stipulated here in. The funds so earmarked for environment management/ pollution control measure should not be diverted for any other purpose.	Complied. (i.e Environment Management cell is for Sugar, Co-generation power plant and Distillery units .)
viii	The implementation of the project vis-à-vis environmental action plans will be monitored by ministry's Regional office at Bhopal/ State Pollution Control Board/ Central Pollution Control Board. A six monthly compliance report along with the monitored data should be submitted to the monitoring agencies.	Noted Six month compliance reports are submitted regularly.

ix	The project proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copy of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry of environment and forest at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and the copy of the same should be forwarded to the Regional Officer.	Complied
x	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Complied

**Conditions Of Compliance for The Expansion of The Sugar Unit From 5000 TCD To
7500 TCD
& 16 MW Of Bagasse Based Co-Generation Power**

Sr.	EC Conditions	Compliance
A	SPECIFIC CONDITION	
i	The Project Authority shall take adequate safety precautions in handling the raw materials, plant and machinery and the product of the processes so as to avoid any damage/loss of life of property or environment.	Noted &Complied
ii	The Project Authority shall provide personal protective equipments; impart training and medical facilities of the workers handling the hazardous/ dangerous raw materials,finished products or processes.	Complied.
iii	The Project Authority shall prepare 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 he 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.	Complied.
iv	The Project Authority shall comply with all statutory requirements for safe transportation of raw materials/finished product in case of trucks / tankers carrying hazardous raw material shall be washed and carrying hazardous raw material shall be washed and cleaned up within the plant premises, so as to ensure no pollution in the vicinity.	Complied.

v	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 effluent and gaseous emissions.	Complied
vi	The Project Authority shall treat the liquid effluents so as to confirm to the standards prescribed by the MPCB. The disposal of the treated effluent shall be accordance with the conditions imposed by the 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 exceed 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 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.	Complied. The results are meeting the prescribed standards and given in . Annexure I.
vii	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 remarkable For the same propose in consultation with the Agricultural 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 in to 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	Complied 60 Ha of. land is available
viii	The Project Authority shall regularly and periodically undertake soil testing of the land which are being used forthe disposal of the effluent and shall also effluent and shall also undertake periodical and regular testing of water sources in the vicinity of the project.	Complied.

ix	The Project Authority shall control the air emission as per the standards prescribed by MPCB. No change in the design of stack and fuel mis be done without the permission of MPCB. Minimum number of air quality monitoring station 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 stack of the plant should be provided with the continuous stack monitoring equipment and stack emission level shall be recorded and submitted to the MPCB as per the directives .	Complied Results are given in Annexure I. Online continuous stack emission monitoring was already provided to all stacks present in the factory and records are regularly submitted to the MPCB
x	The process emission shall meet the standards prescribed by MPCB. At no time the emission should be beyond the standards. The respective units which exceed the standards should be put out of order immediately and should not be restarted unit the control systems are rectified.	Complied
xi	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 (Whichever applicable]	Noted &Complied The only hazardous waste generated is spent oil and disposed as per CPCB guidelines to authorized recyclers.
xii	The Project Authority shall take precautions so as to reduce the types of environmental problems like noise, odour, thermal/heat and radioactive etc. (if applicable)	Noted &Complied
xiii	The Project Authority shall set up environment management cell with a suitable 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 process emission 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.	Complied

xiv	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
xv	Tree planation programme 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	Complied at the rate of 1500 trees per hectare.
xvi	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.
xvii	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)/ MPCB/Government of India before commencement of production/activity.	The MPCB consent conditions are being followed strictly.
xviii	The company should also store molasses in still tank and not in Kaccha Pit.	Complied