



SHREE DATTA SHETKARI SAHAKARI SAKHAR KARKHANA LTD., SHIROL.  
श्री दत्त शेतकरी सहकारी साखर कारखाना लिमिटेड, शिरोळ.



POST:DATTANAGAR 416 120. TALUKA SHIROL, DIST. KOLHAPUR. (MS) INDIA

पोस्ट : दत्तनगर ४१६ १२०, तालुका शिरोळ, जिल्हा कोल्हापूर (महाराष्ट्र) भारत

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Ref. No. **7494** /MoeF/2020-21

Date : 05/01/2021

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

**Sub: Six Monthly Compliance Report for the Period June 2020 to December 2020.**

**Ref-1: Environmental Clearance for the expansion/modernization of the sugar factory capacity from 7500 TCD (313 TCH) to 9000 TCD (375 TCH) at Shri Datta Shetakari Sahakari Sakhar Karkhana Ltd., SEIAA Meeting No: 130 Meeting Date: May 25, 2018 (SEIAASTATEMENT-000000041) SEIAA-MINUTES-0000000450, SEIAA-EC- 0000000326, dated-1 June, 2018**

**Ref- 2: Environmental Clearance for the expansion of the Distillery unit from 30 KLPD to 60 KLPD at Shri Datta Shetakari Sahakari Sakhar Karkhana Ltd., vide MOEF letter No. J-11011/33/2001-IA II(I) Dtd 11/12/2001.**

Dear Sir,

With Reference to the above subject matter reference - 1 & reference - 2 we are submitting the environmental status Report and Compliance of environmental Clearance conditions.

Thanking You,

Yours Faithfully,  
for Shree Datta S. S. S. K. Ltd., Shirol

(M. V. Patil)  
Managing Director



PROFARMA FOR COMPLIANCE OF ENVIRONMENT CLEARANCE CONDITIONS  
OF SUGAR UNIT

1.	Period of Submission of half yearly Compliance Report	June 2020 to December 2020
2.	Air, Water Analysis Data	<b>Annexure I.</b>
3.	Current States of the Project	(A) The Sugar Unit Capacity is expanded from 7500 to 9000 TCD without any additional inputs such as Water, Fuel and Effluent Generation. Environment Clearance was granted by the State Level Environment Impact Assessment Authority on 1 <sup>st</sup> June 2018. The copy of the Environmental Clearance is enclosed..
4.	Name and Contact Details of the responsible person with respect to the submitted report	M. V. Patil Managing Director, Shree Datta Shethkari S.S.K. Ltd., (Po) Dattanagar – 416120, (Tq) Shirol, (Dst) Kolhapur. Ph. - (02322) 236551 (6 lines), (02322) 236600 Email: <a href="mailto:klp.dattsssk@gmail.com">klp.dattsssk@gmail.com</a> Website: <a href="http://www.dattasugar.co.in">www.dattasugar.co.in</a>
5.	Legal Status	No Court Cases except MPCB has given closure notice to all sugar units in Kolhapur District for excess crushing.
6.	Online Monitoring	Installed for Sugar and Distillery Units.
7.	CREP Conditions	Implemented
8.	ETP Technologies Adopted	(A) <u>Sugar</u> : Anaerobic followed by Aerobic treatment and treated effluent is used for irrigation on 100 acres of land. (B) <u>Distillery</u> : 30 days Spentwash storage tank as per CPCB guidelines "Composting" yard is concreted.



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; S

Managing Director

**ENVIRONMENTAL CLEARANCE CONDITIONS AND COMPLIANCE  
FOR 7500 TCD TO 9000 TCD**

Sr. No.	EC Conditions	Compliance
<b>Specific Conditions:</b>		
1.	PP to submit copy of agreement made with the Irrigation department for lifting water from the River. PP to comply with all terms and conditions mentioned in the agreement.	Already submitted.
2.	PP informed that they have obtained earlier EC vide No.SEIAA-EC-0000000326 dated 01.06.2018, MoEF's regional office Nagpur visited the site and identified few non compliance in their report including excess crushing. PP to submit copy of reply submitted to MoEF&CC regional office in this regard.	Submitted copy of reply to MoEF&CC regional office in this regard. <b>Annexure-II</b>
3.	PP to submit copy of point wise reply to the issues rose in Public Hearing.	Submitted copy of point wise reply to the issues raised in Public Hearing. <b>Annexure-III</b>
4.	PP to submit letter mentioning exact project cost.	<b>Annexure-IV</b>
<b>General Conditions:</b>		
1.	(i)PP to achieve Zero Liquid Discharge; PP shall ensure that there is no increase in the effluent load to CETP.	The Industry adopted the cleaner technology to recycle the entire condensates water to process. The treated effluent is applied on 40 hectares of land
2.	No additional land shall be used/acquired for any activity of the project without obtaining proper Permission.	Existing land is adequate.
3.	PP to take utmost precaution for the health and safety of the people working in the unit as also for protecting the environment.	Risk analysis was carried out and implemented. Personnel protection equipments are provided to workers. Health records of the employees are maintained as per Occupational Health Studies.
4.	Proper Housekeeping programmers shall be implemented.	Complied.
5.	In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.	Noted & shall be complied
6.	A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set. (If applicable).	The stack height provided for DG set is 6 meter above the roof level.

**Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd**

7.	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	Being Implemented.
8.	Arrangement shall be made that effluent and storm water does not get mixed.	Separate collection systems are provided
9.	Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.	Carried out regularly <b>Annexure-I.</b>
10.	Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.	Complied.
11.	The overall noise levels in and around the plant are shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.	Implemented such as acoustic system and Noise proof foundations/enclosures etc. Also plantation is done to reduce noise levels. Results are included in <b>Annexure I</b>
12.	Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.	29.64 hectares land used for green belt purpose. The industry planted 44004 trees. The greenbelt over and above 33% of the total factory area.
13	Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.	Risk analysis was carried out and implemented.
14	Occupational health surveillance of the workers shall be done on a regular basis and record maintained as per Factories Act.	Health records of the employees are maintained as per occupational Health Studies.
15	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Firefighting arrangements have been provided around the storage of molasses, bagasse and sugar godowns etc. Fire bridged is available with the industry and arrangement also has been made to contact the nearby industries and municipalities for fire bridged in case of emergencies.



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shiroli

**Managing Director**

**Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd**

16	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.	The only hazardous waste generated is spent oil and disposed as per CPCB guidelines to authorized recyclers.
17	Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.	Already implemented.
18	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Provided.
19	Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department.	Complied.
20	The project management shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at <a href="http://ec.maharashtra.gov.in">http://ec.maharashtra.gov.in</a>	Already complied
21	Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1 <sup>st</sup> June & 1 <sup>st</sup> December of each calendar year.	Submitted regularly.
22	A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent	Complied.



For. Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

Managing Director

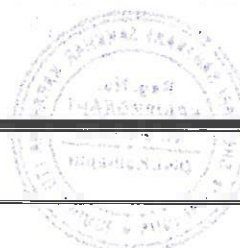
**Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd**

23	The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Complied
24	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.	Six Monthly compliance reports are regularly submitted.
25	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	Submitted regularly.



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

**Managing Director**



**CONDITIONS OF COMPLIANCE FOR THE EXPANSION OF THE DISTILLERY UNIT FROM 30 KLPD TO 60 KLPD UNITS FROM 30 KLPD TO 60 KLPD**

Sr. No.	EC Conditions	Compliance
<b>A. SPECIFIC CONDITIONS</b>		
i	The Industry should ensure that the treated effluent & stack emission from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbance / Failure of pollution control equipment's adopted by the unit, the respective unit should be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency	The treated effluents are meeting the SPCB standards. The summarized results are enclosed. <b>Annexure-I.</b>
ii	The company should adopt state of the Art continuous fermentation technology (multi pressure vacuum distillation process) for the expansion and ensure that the spent wash generated will not exceed 8 m <sup>3</sup> /KI ki rectified spirit production. The company should also carry out necessary process modification within a period of 3 years in the existing unit to ensure that quantity of spent wash generated not exceed 8 m <sup>3</sup> /KI of product	Adopted only the continuous fermentation technology (Multi Pressure Vacuum Distillation Process) for the expansion and the effluent quantity of spent wash is less than 6 KL/KL of RS production.
iii	As per the commitment given, the company should set up a co-generation power plant and provide ESP's for the boilers to limit the dust emission to 150 mg/Nm <sup>3</sup> as stipulated by MPCB within a period of 1 year.	Established co-generation power plant on BOOT principles by Urjankur Shree Data Power Company Ltd., and ESP is installed as air pollution control equipment, for the high pressure boiler by the Ujankur Shree Datta Power Company Ltd. The Distillery unit takes power and steam from this company.
iv	The company should provide two-stage composting in order to recycle the filter material to the maximum extent possible.	The composting plant has been working satisfactorily. Photographs of the Composting plant are attached.
v	As reflected in the EMP, the spent wash generated should be used for direct Composting with press mud / bagasse / agro	The composting process is based on raw spentwash using mainly Pressmud, Bagasse, Fly Ash and agriculture trash etc. as filter





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	residue. The spent wash should be stored in impervious lined pits. The compost pits should also be lined with concrete. The spent lees generated should be adequately treated to ensure that the BOD level of treated effluent is less than 100 mg/l before it is use for land irrigation.	material. The spent wash composting is carried out on seepage proof compost yard. The spent wash is stored in lined lagoons, as per the CPCB guidelines. The generated spentlees is treated in CPU and to achieve BOD level of less than 100 mg/l and used for irrigation/plantation purpose.
vi	Occupational health surveillance program in the factory must be strengthened to include lung function Test, Sputum analysis & chest X-ray for monitoring the health of workers especially those in the bagasse handling sections	The occupational health surveillance includes lung function test, sputum analysis and chest X-ray in the factory hospital regularly. We have established a well furnished 35 Bed Hospitals in our campus.
<b>B. GENERAL CONDITIONS</b>		
i	The project authorities must strictly adhere to the stipulations made by the Maharashtra state pollution control board and the state Government	The MPCB consent conditions are being followed strictly.
ii	No further expansion or' modifications in the plant should be carried out without prior. Approval of the Ministry of Environment and Forests.	We shall be informing to the MoEF and obtain permission for any modernization/ expansion of the project.
iii	The AAQ should be regularly monitored in respect to SPM, SO <sub>2</sub> & NO <sub>x</sub> . The locations of the monitoring stations should be fixed up depending on the wind rose pattern during that period.	The AAQ samples have been monitored as per the prevailing wind direction as well as at the worst conditions predicted and also on upward downward wind direction. The results are enclosed in <b>Annexure I</b> .
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 parameters.	Complied and regular monitoring of influent and effluent samples were carried as per the consent conditions of the MPCB and the results are enclosed.
v	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of	Complied and the noise levels are regularly monitored and the results are enclosed in <b>Annexure I</b>



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	noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	
vi	Green Belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the plant. A minimum of 25 % of the total land acquired should be developed as green belt in consultation with the local DFO	29.64 hectares land used for green belt purpose. The industry planted 44004 trees. The greenbelt over and above 33% of the total factory area.
vii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	Complied.
viii	A separate environmental management cell equipped with full fledged laboratory Facilities must be set up to carry out the environmental management and monitoring functions. The project authorities will provide adequate funds both recurring and non recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	A full-fledged Environmental Cell is established. The laboratory has sophisticated equipment for soil analysis, however, water, waste water and Air monitoring analysis is outsourced.
ix	The implementation of the project vis-à-vis environment action plans will be monitored by Ministry Regional Office at Bhopal / State Pollution Control Board/Central Pollution Control Board. A six monthly compliance status report along with the monitored data should be submitted to the monitoring agencies.	Complied and six monthly compliance report is submitted regularly.
x	The project proponent should advertise in at least two local newspaper widely circulated in the region around the project, one of	These conditions have been already fulfilled.



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	which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the ministry & copies of the clearance letter are available with the state pollution control board/ committee and may also be seen at website of the ministry and forest at <a href="http://envfor.nic.in">http://envfor.nic.in</a> . The advertisement should be made with 7 days from the date of issue if the clearance letter and a copy of the same should be forwarded to the Ministry regional office at Bangalore.	
xi	The Project Authorities should 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.	a) Date of Financial Closer is - 03/08/2003 b) Date of Financial Approval - 30/12/2000 c) Date of Start of Development Work - 09/03/2001



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol  
  
Managing Director



## Annexure I

### TEST REPORT

Report Ref. No. : SEC/AA-TR/11-20	Nature of Sample: Air
Name of Industry/Customer: Shri Datta SSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 04 <sup>th</sup> December 2020.
Name of Sample : Ambient Air Monitoring	

Sr. No	Sampling Station	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	AQI
	NAAQ Standard 2009	100 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>	
	Hours	24hr	24hr.	24hr	24hr	
Sampling Date: 23 <sup>rd</sup> November 2020						
1	Near Factory Main Gate	70	31	08.0	10.0	69
2	Near Sugar ETP Plant	62	27	08.0	10.0	57

**Remarks:**

AQI Value	AQI Category	AQI Color
0 - 50	Good	Green
51 - 100	Moderate	Yellow
101 - 150	Unhealthy for Sensitive Groups	Orange
151 - 200	Unhealthy	Red
201 - 300	Very Unhealthy	Purple
301 - 500	Hazardous	Maroon

Ambient Air Quality was assessed the parameters PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub>. The results indicate that all the parameters are well within the prescribed limits.

AQI Calculations indicate that the air surrounding of Shree Datta SSK Ltd. is of Moderate quality. The air quality does not have any adverse effect on the health of the people residing near the Premises of the Shree Datta SSK Ltd.



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

Managing Director

**Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd**

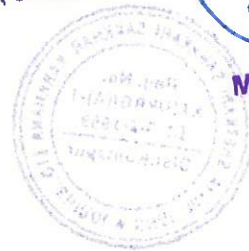
**TEST REPORT**

<b>Report Ref. No. :</b> SEC/W-TR/11-20	<b>Nature of Sample:</b> Water
<b>Name of Industry/Customer:</b> Shri Datta SSK Ltd.	<b>Sample Collected By:</b> SEC Lab
<b>Address:</b> A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	<b>Report Date:</b> 04 <sup>th</sup> December 2020
<b>Name of Sample :</b> Sugar ETP Inlet	

Sr. No.	Test Parameter	Results & Date of Sampling	Unit	Test Method
		23 <sup>rd</sup> Nov 2020		
1	pH	3.48	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	4077	mg/l	IS:3025 (P-58) 2006
3	B.O.D. ( 3 days at 27°C)	1670	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	4640	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	370	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl <sup>-</sup>	562	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO <sub>4</sub>	290	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	10	mg/l	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol  
Managing Director



*Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd*

**TEST REPORT**

<b>Report Ref. No. :</b> SEC/W-TR/11-20	<b>Nature of Sample:</b> Water
<b>Name of Industry/Customer:</b> Shri Datta SSK Ltd.	<b>Sample Collected By:</b> SEC Lab
<b>Address:</b> A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	<b>Report Date:</b> 04 <sup>th</sup> December 2020.
<b>Name of Sample :</b> Sugar ETP Outlet	

Sr. No.	Test Parameter	Results & Date of Sampling	Unit	Standards	Test Method
		23 <sup>rd</sup> Nov 2020			
1	pH	7.03	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand (mg/l)	145	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. ( 3 days at 27°C) (mg/l)	38	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids (mg/l)	470	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids (mg/l)	46	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl <sup>-</sup> (mg/l)	84	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO <sub>4</sub> (mg/l)	72	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease (mg/l)	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

*(Signature)*  
Managing Director

*Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd*

**TEST REPORT**

<b>Report Ref. No. :</b> SEC/W-TR/11-20	<b>Nature of Sample:</b> Water
<b>Name of Industry/Customer:</b> Shri Datta SSK Ltd.	<b>Sample Collected By:</b> SEC Lab
<b>Address:</b> A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	<b>Report Date:</b> 04 <sup>th</sup> December 2020
<b>Name of Sample :</b> Sugar Spray-pond Over Flow	

Sr. No.	Test Parameter	Results & Date of Sampling	Unit	Test Method
		23 <sup>rd</sup> Nov 2020		
1	pH	6.79	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand (mg/l)	149	mg/l	IS:3025 (P-58) 2006
3	B.O.D. ( 3 days at 27°C) (mg/l)	52	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids (mg/l)	1306	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids (mg/l)	294	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl <sup>-</sup> (mg/l)	45	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO <sub>4</sub> (mg/l)	34	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease (mg/l)	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

Managing Director

**Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd**

**TEST REPORT**

<b>Report Ref. No. :</b> SEC/W-TR/11-20	<b>Nature of Sample:</b> Water
<b>Name of Industry/Customer:</b> Shri Datta SSK Ltd.	<b>Sample Collected By:</b> SEC Lab
<b>Address:</b> A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	<b>Report Date:</b> 04 <sup>th</sup> December 2020
<b>Name of Sample :</b> Sugar Condensate	

Sr. No.	Test Parameter	Results & Date of Sampling	Unit	Test Method
		23 <sup>rd</sup> Nov 2020		
1	pH	7.59	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand (mg/l)	193	mg/l	IS:3025 (P-58) 2006
3	B.O.D. ( 3 days at 27°C) (mg/l)	53	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids (mg/l)	102	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids (mg/l)	6	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl <sup>-</sup> (mg/l)	10	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO <sub>4</sub> (mg/l)	5	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease (mg/l)	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

  
Managing Director



**Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd**

**TEST REPORT**

<b>Report Ref. No. :</b> SEC/W-TR/11-20	<b>Nature of Sample:</b> Water
<b>Name of Industry/Customer:</b> Shri Datta SSK Ltd.	<b>Sample Collected By:</b> SEC Lab
<b>Address:</b> A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	<b>Report Date:</b> 04 <sup>th</sup> December 2020
<b>Name of Sample :</b> Spentlees	

Sr. No.	Test Parameter	Results & Date of Sampling		Unit	Test Method
		23 <sup>rd</sup> November 2020			
		Spentlees Plant No. 1	Spentlees Plant No. 2		
1	pH	3.61	2.99	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand (mg/l)	157	1951	mg/l	IS:3025 (P-58) 2006
3	B.O.D. ( 3 days at 27°C) (mg/l)	41	260	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids (mg/l)	124	138	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids (mg/l)	ND	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl <sup>-</sup> (mg/l)	15	18	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO <sub>4</sub> (mg/l)	8	10	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease (mg/l)	ND	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari, Shakari Sakhar Karkhana Ltd; Shirol

Managing Director

*Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd*

**TEST REPORT**

Report Ref. No. : SEC/S-TR/11-20	Nature of Sample: Noise Level
Name of Industry/Customer: Shri Datta SSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Date of Sampling: 23 <sup>rd</sup> Nov 2020
Name of Sample : Noise Level	Report Date: 04 <sup>th</sup> December 2020

Sr. No.	Location of recording Sound level	Standard Limit dB (A) Leq	Time	dB (A) Leq
1.	Factory Main Gate	75	Day	57.8
		70	Night	50.3
2.	Weigh Bridge	75	Day	65.2
		70	Night	60.6
3.	Cane Cutter	75	Day	70.2
		70	Night	67.5
4.	Mill House	75	Day	72.5
		70	Night	67.1
5.	Boiler House	75	Day	72.9
		70	Night	67.6
6.	Turbine House	75	Day	73.1
		70	Night	68.7
7.	Sugar Bagging House	75	Day	69.4
		70	Night	63.6
8.	Compost Yard	75	Day	67.3
		70	Night	50.4
9.	Factory Guest House	75	Day	53.0
		70	Night	45.2
10.	Factory Colony	75	Day	52.1
		70	Night	44.6

**Remarks:**

The Noise pressure level results indicate that the day time and night time Noise Levels in the premise of Shri Datta SSK Ltd. are within prescribed limits. This is due to proper acoustic enclosures to the Noise generating machines and development of adequate Greenbelt



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

*(Signature)*  
Managing Director

**Shri Datta Shetakari Sahakari Sakhar Karkhana Ltd**

**TEST REPORT**

<b>Report Ref. No. :</b> SEC/S-TR/11-20	<b>Nature of Sample:</b> DG Set
<b>Name of Industry/Customer:</b> Shri Datta SSK Ltd.	<b>Sample Collected By:</b> SEC Lab
	<b>Date of Sampling:</b> 23 <sup>rd</sup> Nov 2020.
<b>Address:</b> A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	<b>Report Date:</b> 04 <sup>th</sup> December 2020
<b>Name of Sample :</b> DG Set Emission	

Diesel Set Capacity	Emissions (g/kw-hr)			Smoke (Light Absorption Coefficient, m <sup>-1</sup> )
	NO <sub>x</sub> + HC	CO	PM	
<b>Limits</b>	≤ 4.0	≤ 3.5	≤ 0.2	≤ 0.7
500 KW	3.5	0.28	0.15	0.4



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol.

**Managing Director**



**Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd**

**TEST REPORT**

<b>Report Ref. No. :</b> SEC/W-TR/11-20	<b>Nature of Sample:</b> Water
<b>Name of Industry/Customer:</b> Shri Datta SSK Ltd.	<b>Sample Collected By:</b> SEC Lab
	<b>Date of Sampling:</b> 23 <sup>rd</sup> November 2020
<b>Address:</b> A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	<b>Report Date:</b> 04 <sup>th</sup> December 2020
<b>Name of Sample :</b> Raw Spentwash	

Sr. No.	Test Parameter	Unit	Result		Test Method
			Raw Spentwash Plant No.01	Raw Spentwash Plant No.02	
1	pH	-	2.95	3.09	IS:3025 (P-11) 1983
2	C.O.D	mg/l	2,38,694	2,84,256	IS:3025 (P-58) 2006
3	B.O.D	mg/l	63,210	1,23,910	IS:3025 (P-44) 1993
4	Total Solids	mg/l	2,85,370	3,52,760	APHA 22 <sup>nd</sup> Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	1,62,310	2,19,340	APHA 22 <sup>nd</sup> Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	1,23,060	1,33,420	APHA 22 <sup>nd</sup> Edition-2012, 2540 C
7	Chlorides	mg/l	18,570	19,145	IS:3025 (P-32) 1988
8	Sulphates	mg/l	10,310	10,890	IS:3025 (P-24) 1986
9	Potassium	mg/l	17,100	17,800	IS:3025 (P-45) 1993



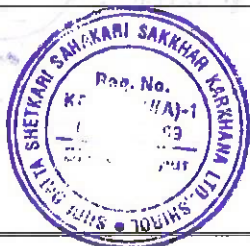
For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd, Shirol

**Managing Director**

**Monitoring the Implementation of Environmental Safeguards  
Ministry of Environment, Forest & Climate Change  
Regional Office (West Central Zone), Nagpur**

**Monitoring Report  
Part - I  
DATA SHEET**

1.	Project Type: River-valley / Mining / Industry /Thermal / Nuclear / Other (Specify)	Sugar Industry
2.	Name of the Project	Expansion / Modernization of the sugar factory capacity for 7500 TCD (313 TCH) to 9000 TCD (375 TCH)
3.	Clearance Letter (s) / OM No. and date	SEIAA-EC-0000000326 Dated- 01/06/2018
4.	Location  a. District (s) b. State (s) c. Latitude d. Longitude	a. Kolhapur b. Maharashtra c. 16 45'N d. 74 36'E
5.	Address for correspondence  a. Address of concerned Project Chief Engineer (with Pin Code & Telephone/ Telex/ Fax Numbers) & Address of Executive Project Engineer / Manager (with pin code/fax numbers)	Managing Director:- Shree Datta Shetkari sahakari sakhar Karkhana Ltd., Shirol, Post-Dattanagar, 416120 Tal-Shirol, Dist-Kolahapur Tel No.: (02322) 236551 (6 lines) Fax. No.- (02322) 236600
6.	Salient features  Of the Project	Expansion / Modernization of the sugar factory capacity for 7500 TCD (313 TCH) to 9000 TCD (375 TCH)



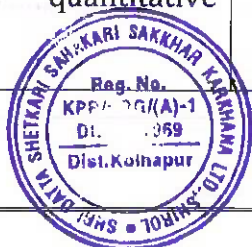
For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol  
  
Managing Director

	Of the Environmental Management Plan	<p>1. The industry has its own land of 871013.67 Sq. m. out of which 293916.82 sq.m. of land is utilized for Green belt development.</p> <p>2. Rainwater harvesting has been implemented &amp; collected in a pond &amp; used for process/green belt development after treatment.</p> <p>3. The industry has undertaken a number of social and cultural activities to the nearby local population and proposes to reserve 1.0 % of the capital cost of the project as CSR activities.</p> <p>4. The industry has provided online monitoring system and connected to CPCB/MPCB servers.</p> <p>5. The raw spentwash generated shall be treated based on Anaerobic digester followed by concentration in MEE followed by Bio- Compost in order to achieve the Zero Liquid Discharge.</p>
7.	<b>Break up of the Project area</b> a. Submergence Area: Forest & Non Forest b. Others	a. Nil b. Nil
	a. Total Plot Area b. Built - Up Area (Including Road) c. Open Space available d. Green belt area	85.46 Ha 14.61 Ha 0.48 Ha 29.64 ha
8.	Breakup of the Project affected population with enumeration of those losing houses/dwelling units only, agricultural land only, both dwelling units & both dwelling units & agricultural land & landless laborers/artisan a. SC, ST/Adivasis b. Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only	Nil



For Shree Datta Shetkari Sakhar Karkhana Ltd. Shir  
  
Managing Director

	survey carried out or only provisional figures, if a survey carried out gives details and years of survey.)	
<b>9.</b>	<b>Financial Details</b>	
	a. Project costs as originally planned & subsequent revised estimates and the year of price reference.	14.84 Cr.
	b. Allocations made for Environmental Management Plan with item wise & year wise breakup.	1.7 Cr.
	c. Benefit Cost Ratio / Internal rate of Return and the year of assessment	Not Applicable
	d. Whether (c) includes the cost of Environmental Management as shown in the above.	No
	e. Actual expenditure incurred on the Project so far	
	f. Actual expenditure incurred on the Environmental Management Plan so far	1.00 CR
<b>10.</b>	<b>Forest land requirement</b>	Nil
	a. The status of approval for diversion of Forestland for non-forestry use	
	b. The Status of clearing felling	
	c. The status of compensatory Afforestation programme in the light of actual field experience	
<b>11.</b>	The status of clear felling in non-forest areas (such as submergence area of reservoir, Approach roads), if any with quantitative information	Not Applicable.



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shiro  


Managing Director Page 3 of 4

12.	<p>Status of construction</p> <p>a. Date of commencement (Actual and/or Planned)</p> <p>b. Date of completion (Actual and/or Planned)</p>	<p>After the Environmental Clearance is received.</p> <p>a. 09/03/2001</p> <p>b. 27/02/2002</p>
13.	<p>Reasons for the delay if the project is yet to start</p>	<p>Not Applicable</p>
14.	<p>Dates of site visits</p> <p>a. The dates on which the Project was monitored by Regional Office on previous occasions, if any</p> <p>b. Date of site visit for this monitoring Report</p>	<p>10/12/2016</p>
15.	<p>Details of correspondence with project authorities for obtaining action plan / information on status of compliance to safeguards other than the routine letters for logistic support for site visit.</p> <p>(The monitoring report may obtain the details of all the letters issued so far but the later reports may cover only the letters issued subsequently)</p>	<p>Not Applicable.</p>



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

Managing Director







भारत सरकार  
GOVERNMENT OF INDIA  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
MINISTRY OF ENVIRONMENT, FORESTS  
& CLIMATE CHANGE

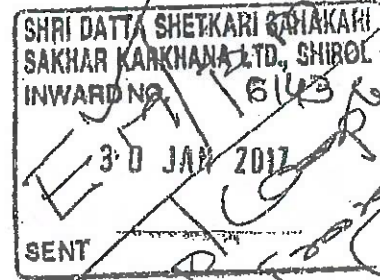
Regional Office (WCZ)  
Ground Floor, East Wing  
New Secretariat Building  
Civil Lines, Nagpur - 440001  
E-mail: apccfcentral-ngp-mef@gov.in

F.No: EC-225/RON/2016-NGP/1250

Date: 13/01/2017

To,

Scientist 'D'  
Member Secretary  
IA Division (Industry-II)  
Ministry of Environment, Forest & Climate Change  
Indira Paryavaran Bhawan,  
Aliganj, Jorbagh Road,  
New Delhi-110003



Sub: Environmental Clearance for the expansion of Distillery Unit from 30 KLPD to 60 KLPD of M/s. Shri Datta Shetkari Sahakari Sakhar Karkhana Limited located at Datta Nagar, Shirol, Kolhapur, Maharashtra-reg.

Ref:

1. MoEF Letter no. J-11011/33/2001-IA II(I) dated 11.12.2001

Sir,

I am directed to invite your kind attention on the above subject and letter under reference. Monitoring report of compliance to conditions stipulated in Environment Clearances accorded for Molasses based Distillery Unit from 30 KLPD to 60 KLPD of M/s. Shri Datta Shetkari Sahakari Sakhar Karkhana Limited located at Datta Nagar, Shirol, Kolhapur, Maharashtra is enclosed herewith. Following observations were made during the site inspection:

Environment Clearance for the 60 KLPD Distillery issued by MoEF vide letter no. J-11011/33/2001-IA II(I) dated 11.12.2001

Following conditions were not complied:

General Condition no. XI:

PA did not inform the financial closure details to Regional Office of the Ministry.

Following conditions were partially complied:

General Condition no. III:

From the monitoring report submitted, it has been observed that no monitoring is being carried out in the upwind-direction.

General Condition no. VII:

Following measures need to be implemented:

i) Air quality monitoring locations need to be increased by considering sugar plant, distillery and open plant. Monitoring frequency shall be fixed as once in a month.



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol

Managing Director

- ii) Fugitive emissions need to be monitored at cane yard, bagasse storage yard, near composting area
- iii) Currently ground water quality is being monitored only at 2 locations near compost yard. Number of monitoring locations need to be increased near compost yard, spent wash lagoon based on the drainage pattern of the area.

Analysis of compost Leachate needs to be carried out regularly.

**General Condition no. IX:**

PA did not submit the six monthly compliance regularly.

**General Condition no. X:**

PA submitted that advertisement has been made, however documentary proof was not submitted during the inspection.

**Environment Clearance for the 7500 TCD Sugar Plant issued by Government of Maharashtra Vide Letter No. ENV (NOC) 2000/130/CR-21/D-I DATED 23.03.2000.**

Following conditions were partially complied:

**Condition no. 15:**

Green belt is developed in 29.64 ha, however tree density per hectare is not as per the stipulation.

**Condition no. 17:**

PA submitted that Compliance report was submitted to MPCB/ Government of Maharashtra, however same was not submitted to Regional Office of the Ministry.

**Other Details:**

Average quantity of sugar cane crushed during last three years (i.e. 2013-14 to 2015-16) was 7699 TCD, which is found to be higher than the approved capacity of 7500 TCD.

This issues with the approval of APCCF (Central), Regional Office, Nagpur.

*A. Suresh Kumar*  
13/01/17  
Suresh Kumar Adapa  
Scientist 'D'

Encl: as above

Copy to:

1. Director RO HQ, Ministry of Environment, Forest & Climate Change, Government of India, 1st Floor Agni Wing, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi-110 003
2. Director (Monitoring Cell), Ministry of Environment, Forest & Climate Change, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi-110003
3. Managing Director, M/s. Shri. Datta S.S.S.K. Limited, Post: Dattanagar, Taluka: Shirol, Kolhapur District, Maharashtra-416120
4. Guard File

*A. Suresh Kumar*  
13/01/17  
Suresh Kumar Adapa  
Scientist 'D'



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

*[Signature]*  
Managing Director

2/23

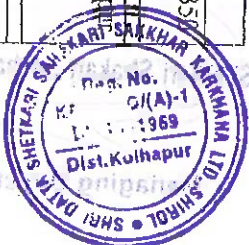
Environmental Clearance Compliance of the Expansion of Distillery Unit from 30 KL/ PD to 60 KL/ PD as per the Visit of Regional Officer, MOEF, Nagpur vide Letter No. J-1101/133/2001-IA II(1) dated 11/12/2001.

Sr. No.	Environmental Clearance Condition	Compliance
01	PA did not inform the Financial Closure details to the Regional Office of the Ministry.	It has submitted. However, it is again submitted 27 <sup>th</sup> February 2002, as the financial closure.
02	No Monitoring Report is being carried out in the upwind direction.	It is carried out from the season 2016-2017 onwards.
03	i] Air quality monitoring locations shall be increased monitoring frequency shall be fixed as once in a Month. ii] Fugitive Emissions need to be monitored at cane yard, bagasse storage yard and near composting area. iii] Ground water quality monitoring stations shall be increase at compost yard site, spent wash lagoon area based on the drainage area.	From Season 2016-2017 onwards, three stations were established. Monitoring was carried out once in a month. The monitoring was carried out at all the three stations as suggested by the Regional Officer, MOEF, Nagpur. Ground water monitoring stations are increased to four stations instead of two stations at present.
04	PA did not submit six monthly reports regularly.	Shall be submitted regularly.
05	PA Submitted that advertisement has been made, however, documentary proof was not submitted during the inspection.	Public Hearing Notification was published in the Daily Pudhari / Sakal dated 13/04/2001. Public Hearing Proceedings were incorporated in the EIA Report. Public Hearing was conducted on 17/05/2001.
Environment Clearance for the 7500 TCD Sugar Plant issued by Government of Maharashtra vide letter No. ENV(NOC)2000/130/CR-21/D-1 dated 23/03/2000.		
Sr. No.	Environmental Clearance Condition	Compliance
01	Green Belt is developed in 29.64 hectares; however tree density per hectare is not as per the stipulation.	Shall be maintained as 1500 trees per hectare. At present it is 1350 trees per hectare.
02	PA submitted that compliance report was submitted to MPCB / Govt. of Maharashtra, however same was not submitted to Regional office of the Ministry.	Submitted to Bhopal and in future shall be submitted to Nagpur office regularly.
03	Sugarcane crushing (ie. 2013-14 to 2015-16) was 7699 TCD, which is higher than the approved capacity 7500 TCD.	Due to pressure from the farmers as their cane shall not get crushed, we had to slightly crush more. However, during the season 2016-17 crushing was maintained maximum 7500 TCD. The average crushing capacity during 2016-17 season was 7372 TCD.

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For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

Managing Director



Environmental Clearance Compliance of the Expansion of Distillery Unit from 30 KLPD to 60 KLPD as per the Visit of Regional Officer, MOEF, Nagpur vide Letter No. J-11011/33/2001-1A IIC) dated 11/12/2001.

Sr. No.	Environmental Clearance Condition	Compliance
01	PA did not inform the Financial Closure details to the Regional Office of the Ministry.	It has submitted. However, it is again submitted 27 <sup>th</sup> February 2002, as the financial closure.
02	No Monitoring Report is being carried out in the upwind direction.	It is carried out from the season 2016-2017 onwards.
03	i] Air quality monitoring locations shall be increased monitoring frequency shall be fixed as once in a Month. ii] Fugitive Emissions need to be monitored at cane yard, bagasse storage yard and near composting area. iii] Ground water quality monitoring stations shall be increase at compost yard site, spent wash lagoon area based on the drainage area.	From Season 2016-2017 onwards, three stations were established. Monitoring was carried out once in a month. The monitoring was carried out at all the three stations as suggested by the Regional Officer, MOEF, Nagpur. Ground water monitoring stations are increased to four stations instead of two stations at present.
04	PA did not submit six monthly reports regularly.	Shall be submitted regularly.
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Sr. No.	Environmental Clearance Condition	Compliance
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02	PA submitted that compliance report was submitted to MPCB / Govt. of Maharashtra, however same was not submitted to Regional office of the Ministry.	Submitted to Bhopal and in future shall be submitted to Nagpur office regularly.
03	Sugarcane crushing (i.e. 2013-14 to 2015-16) was 7699 TCD, which is higher than the approved capacity 7500 TCD.	Due to pressure from the farmers, as their cane shall not get crushed, we had to slightly crush more. However, during the season 2016-17 crushing was maintained maximum 7500 TCD. The average crushing capacity during 2016-17 season was 7372 TCD.

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For Shree Datta Shetkari Sakhar Karkhana Ltd, Shirol

Managing Director

**MINUTES OF THE ENVIRONMENTAL PUBLIC HEARING  
HELD FOR  
PROPOSED EXPANSION OF SUGAR CANE CRUSHING CAPACITY  
FROM 7500 TCD TO 9000 TCD  
IN RESPECT OF  
M/S. SHREE DATTA SHETKARI SAHAKARI SAKHAR KARKHANA  
LTD.,  
AT: SHIROL, POST: DATTANAGAR, TAL: SHIROL, DIST:  
KOLHAPUR (MAHARASHATRA STATE)**

Public hearing for proposed expansion of sugar cane crushing capacity from 7500 TCD to 9000 TCD in respect of M/s. Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd., Shirol, Post: Dattanagar, Tal: Shirol, Dist: Kolhapur was held on 10.11.2016 at 11.00 AM at Late Dattajirao Kadam Kamgar Kalyan Mandal Trust Hall, Karkhana site, Shirol, Dist: Kolhapur. Following panel members were present for the public hearing:-

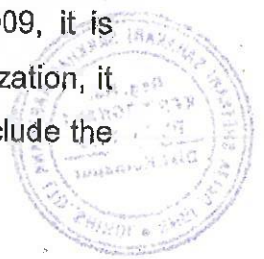
1. Hon'ble Shri. Sanjay Shinde, - Chairman  
Additional District Magistrate, Kolhapur.  
(Representative of District Collector, Kolhapur)
2. Shri N. H. Shivangi, - Member  
Regional Officer, M.P.C. Board, Kolhapur.  
(Representative of Maharashtra Pollution  
Control Board)
3. Sou Indira Gaiwad, - Convener  
Sub Regional Officer, MPCB,  
Kolhapur.

First of all, Sou Indira Gaiwad, Sub Regional Officer, MPC Board, Kolhapur and Convener of the environmental public hearing welcomed the participants and started the public hearing after seeking permission of Hon'ble Chairman of the public hearing. She informed that the public hearing is held in respect of the proposal submitted by M/s. Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol for expansion of its crushing capacity from 7500 MT to 9000 MT per day. Since the factory is covered under Annexure B Classification 5 (J) of the Notification of Ministry of Environment and Forests, Government of India dated 14-09-2006 and amended on 01-12-2009, it is necessary to conduct the public hearing. Due to growth in Industrialization, it has become important to protect the environment and therefore, to include the



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd, Shirol

**Managing Director**



	<p>total hardness, chlorides, sulphates are more than the prescribed standards. In the report, it has been mentioned that this water is neither fit for drinking nor for agriculture purpose. Co-generation plant is run by using coal as its fuel. Coal causes health problems. Bagasse should be used instead of coal. The expansion should be done as per the guidelines laid down by Hon'ble National Green Tribunal and M.P.C Board. We have come to know that the factory has already done its expansion by installing all machinery and the public hearing is held just for show.</p>
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Environment Consultant of the Karkhana, Dr B. Subbarao submitted his explanation to above issues as follows:-

All reports pertaining to pollution are submitted by Padmaja Aerobiologicals (P) Ltd, which is MOEF approved Laboratory. Presently, we are going to increase capacity of sugar factory and not of co-generation plant. No other industry has as good Effluent Treatment Plant as this sugar factory has. The treated waste water is supplied to 40 hectares of agricultural lands which have produced maximum 115 MT of sugar cane per acre and average production is 40 to 50 tons per acre. We have executed bilateral agreement with nearby member farmers for disposal of treated effluent in their fields.

Last year, the officers of Central Pollution Control Board had visited this factory. They visited Effluent Treatment Plant. I was also with them. I have also visited the site twice before this visit. The waste water is discharged on land for irrigation only after treatment. After looking at the production of sugarcane crops, we can believe it. It is incorrect to say that we dispose untreated waste water for agriculture.

The factory has planted about 21000 trees for green belt development. No other industry has developed as good green belt as developed by this factory.

As per TOR, we have collected and analysed samples of air, water and noise etc. within the radius of 10 Kms. of the factory. The waste water is not



For Shree Datta Shetkari Sakhar Karkhana Ltd.

Managing Director

Accordingly, environmental consultant of the Management, Dr. B. Subbarao submitted his presentation to the gathering.

He submitted his presentation through slide show which includes existing status of organization, crushing capacity, location, area, factory layout, toposheet map, contour map etc.

He further explained this is not expansion of sugar factory but only the modernization. Karkhana utilizes 900 m<sup>3</sup> water per day out of which 100 m<sup>3</sup> utilized for domestic use and 800 m<sup>3</sup> water used for distillery. Karkhana lifts all required water from Panchaganga river. Sugar factory recycles approx. 1500 m<sup>3</sup> condensate water for different usages like spray pond make up, process water, for cooling tower make up, for molasses dilution in distillery etc.

For proposed modernization, no excess land, water and fuel is required. For production of 180 ton per hour steam, 72 ton per hour bagasse is required. Required 138 ton per hour steam is provided by co-generation (USDPCCL) to Shree Datta SSSK Ltd., Shirol. During modernization usage of steam will be bring down up to 34% from existing 39% on cane. Now a days, sugar factory requires 7.6 MW electricity which increases up to 9.12 MW after modernization.

USDPCCL has established a boiler of capacity 180 ton and 110 kg per cm<sup>2</sup> pressure. Boiler is having latest ESP and 98 meter stack height which reduces air pollution to considerable limit.

Factory operation generates small quantity of spent oil which is mixed with bagasse and same is utilized in the boiler as fuel. The entire distillery waste is utilized for composting.

#### Socio-economic study –

According to socio-economic study, it shows that due to modernization society will be benefitted.

#### Environment and bio-diversity –

According to Shannon-Weiner index, there is a good bio-diversity in studied area of karkhana command area.

For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

Managing Director



### Water budget –

After modernization factory need not require more water as well as it will generate less effluent. Factory having well equipped ETP of 700 m<sup>3</sup> capacity per day. Currently, 324.25 m<sup>3</sup> per day waste water is treated through ETP and after modernization the quantity will be around 332.33 m<sup>3</sup>/day.

Factory is having total land around 85.46 hectares out of which green belt comprises 29.64 hectares.

Factory site is well equipped with 50 bedded hospital, industrial training institute, polytechnic college and the same are used by factory employees, shareholders and villagers etc.

There will not be any impact on air quality due to proposed project and also it does not require excess fuel.

During the presentation, slides of windrose diagramme, isopheletes for PM<sub>10</sub>, isopheletes for PM 2.5, isopheletes for Sox, isopheletes of Nox, ETP flow sheet, condenser cooling and water balance for 9000 TCD etc. are shown.

### Online monitoring –

Factory has installed online monitoring system for treated waste water as per CPCB guidelines. It monitors flow, pH, BOD, COD and TSS. Also factory has installed real time monitoring system for spent wash flow of distillery as well as web camera is fitted at the compost yard.

After above presentation, following discussion/question answer took place.

1	Mr Prithviraj Ashokrao Yadav, Shirol, Deputy Sarpanch, Grampanchayat, Shirol.	Due to expansion of crushing capacity from 7500 MTD to 9000 MTD, sugar cane can be processed earlier. Recovery will increase. Therefore, if no environmental issues are created due to expansion, then we have no objection for the same.
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For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

Managing Director



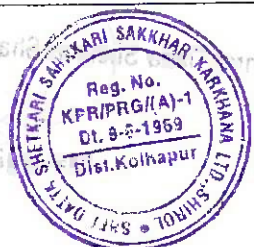
2	Mr Bhalchandra Langare, Dharangutti	The project is essential. Sugar Cane will be harvested at the earliest. Village Dharangutti is located at a distance of 2 to 2.5 Kms from the sugar factory and we have no problem of pollution due to the factory. Grampanchayat, Dharangutti has passed resolution in favour of the project as the same shall not have adverse effect on us.
3	Mr Sukumar Kalgonda Patil, Herwad.	I am member of this sugar factory. There will be no pollution due to expansion. It will increase employment. If the crushing capacity is increased, the transporters will be benefited as they will get more business.
4	Mr. Tatoba Bandu Koli, Ex-sarpanch, Kutwad.	The expansion will help in crushing the sugar cane by the month of March. It will increase the quality of soil. There will be no problem due to the proposed project. We have no objection about proposed project.
5	Mr Nandkumar Bapuso Patil, Arjunwad	I have acquired detailed information regarding the project. The Project is useful for all the farmers. The project shall be commissioned at the earliest.
6	Mr Appaso Govindrao Gavade, Shirol	The project should be 10000 MTD instead of 9000 MTD because the area of operation of the Karkhana is Karnataka and Maharashtra and the sugar cane can reach the factory within 24 hours of harvesting. The project shall not have any adverse effect on our village. Vilagers of Shirol have no objection.
7	Mr Dipak Ashok Patil, Shirol.	My agricultural land is adjacent to the Karkhana, which has a well too. The water samples of the well are collected and analysed by the factory regularly. The river water is clean and is having fishes. We have no objection. The expansion will help the transporters.



For Shree Datta Shetkari Sakhar Karkhana Ltd, Shirol

Managing Director

8	Mr Satappa Gundu Bagadi, Kurundwad.	The Karkhana has efficiently implemented Cane Development Programme. The expansion is in favour of the farmers. The citizens of Kurundwad have signed in favour of the project. We have no objection for expansion of 10000 MTD instead of 9000 MTD.
9	Mr Vishal Avati, Akivat.	Karkhana is surrounded by natural resources. There shall not be any environmental issue if the crushing capacity is increased to 10000 TCD instead of 9000 TCD. The Karkhana has taken precaution.
10	Mr Avinash Patil, Ex-Sarpanch, Shirdhon.	The Karkhana is leading example of Pollution Free Factory not only in Maharashtra but in the entire country. The question of pollution does not arise.
11	Mr Mallappa Chennappa Chougule, Kavathe Guland, Member Grampanchayat.	The environment near Karkhana is clean. There will not be problems of pollution.
12	Mr Vinayak Akaram Patil Mouje Agar	My agricultural land with well is adjacent to the Karkhana. The water is clear and clean which helps me in getting better crop of Sugar Cane and banana. There is no question of pollution.
13	Mr. Mahadev Shankar Pandhare, Shirdhon	The report in respect of expansion of crushing capacity from 7500 MTD to 9000 MTD is proper. The project will benefit the members in Karnataka and Maharashtra. Therefore, the expansion is essential and we support the same.
14	Mr Dhanaji Chudmunge, Shirol	The analysis results of ground water are shown on page No. 53 of the EIA report. The samples should have been taken from nearby places of the sugar factory. The reports are of samples collected from 2 to 2.5 Kms away from the factory. The name of the lab from where samples are analysed has not been given. Also its limits are not given. Hence, they have deceived us. Secondly, there



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd, Shirol,

Managing Director

should be a separate meter for waste water treatment plant of the sugar factory and its record should be separate as per MPCB rules. The electricity of co-gen plant is used by sugar industry. This is illegal. Is really effluent treatment plant of the factory is working ? MPCB should explain whether they have taken objection for giving untreated waste water to farmers by the industry. The technical consultant has informed that the treated waste water is utilized on 100 acres land. Actually, they are giving their waste water for 1000 to 1200 acres of land for cultivation. He is telling lie and should tell the truth. Compensation should be paid to the farmers for damage of their lands. I request the revenue department to see exact area for which this water is given. Due to the waste water of the factory, the lands and borewell water of many farmers have been polluted. Everyone knows the fact. Borewell water gets polluted even if no waste water of the factory is taken. The technical consultant should tell us whether he prepared the reports after visiting the fields or prepared it by only sitting in his office. He should visit the places where waste water is given. We accept that due to expansion the sugarcane will be harvested earlier. We do not want the factory to be closed down, and it should incur losses because we are member/owners of the factory. Presently, we are facing problems of pollution due to the co-generation plant. They have not developed green belt as they say. Shri Chudmunge submitted written representation.



For Shree Datta Shetkari Sakhari Sakhar Karkhana Ltd; Shiror

Managing Director

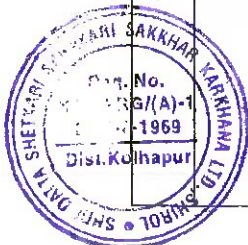
15	Mr Avinash Sureshrao Patil, Mouje Agar	Our borewell water and well water has been polluted due to waste water of the sugar factory. The information given in the EIA report is incorrect. It is our complaint, that the villagers of Mouje Agar get untreated waste water of the factory. The waste water should be given after treatment. Due to waste water, the worms available in soil and other bio-organisms are killed. Hence, we demand that farmers should be compensated by giving them Rs 10000/- per acre of land as damage. Also, during monsoon, nallas get overflow and the untreated waste water of the factory is discharged in these nallas which damages agricultural lands. The water should be given after treatment. The Chairman of the committee instructed Mr. Patil to submit his written complaint to the committee.
16	Mr Diliprao Baburao Mane-Patil, Shirol	We are submitting written representation. I have no complaint about expansion of the crushing capacity. But expansion should be done after complying all the norms of environmental acts. In the year 2011-12, the sugar factory has crushed 1.0 lakh ton of sugarcane by taking it from outside. Hon'ble Chairman requested him to submit written representation.
17	Mr.Dilip Jinnappa Mangave, Shirol	The industry should be operated as per the guidelines given by the Supreme Court of India and as per the directions of NGT.
18	Sou Urmila Sanjay Suryavanshi, Ex Sarpanch, Mouje Agar	Mr. Dhananjay Chudmunge is complaining that his borewell water has been polluted due to the waste water of the factory, whereas the truth is that he sells that water after filtering and packaging for drinking purpose. The compost yard is next to my house but the factory has made proper system and planted trees. And hence, there is no air pollution at all. The tree plantation carried out by the factory is very good.



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

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19	Mr. Dargu Gopal Gavade, Member Of Panchayat Samiti, Shirol.	Till now, whenever required the factory has conducted public hearing. The factory is functioning properly. Hence, there is no problem of any pollution to village Shirol. The population of village Shirol was about 10000 at the time of establishment of the factory, but it has now gone up to 40000. The factory has planted 7000 to 9000 trees and prevented pollution.
20	Mr. Shamgonda Pungonda Patil, village Jambhali	Sugar Cane is the main crop of Western Maharashtra. Harvesting of sugarcane takes 18 months. It will give farmers four extra months for preparation of soil for cultivation in the month of August. It will be beneficial for the farmers. Also, it will help during scarcity of water during summer.
21	Mr Mahesh Bapuso Parit, Ex-sarpanch, Nandani	My house is located at a distance of 5 Kms away from the factory. Factory is implementing the Cane Development Programme. We have no object to expansion.
22	Shri Shankar Dudhale, Arjunwad	Due to use of treated waste water for agriculture, the average sugarcane production has gone to 90 to 100 Tons per acre. We have no problem of this waste water.
23	Mr. K. A. Sankpal, Shirol	My residence is within the vicinity of the sugar factory. There shall not be any adverse effect on the environment due to expansion. I have been using waste water for the sugar factory for my agricultural land for last 10 years. It has not affected my agricultural land.
24	Mr Ranjitsingh Diliprao Mane- Patil, Shirol	I have 40 acres of agricultural land near Karkhana including my bungalow opposite office. The water analysis reports shown by the technical consultant belong to village Shedshal which is more than 10 Kms away from the factory. We have no objection to co-generation. But they are causing health problems to village Shirol and 10 adjacent villages. We have analysis report of water of our well/borewell water in our farm. The results show that water conductivity,



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd. Shirol

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		<p>total hardness, chlorides, sulphates are more than the prescribed standards. In the report, it has been mentioned that this water is neither fit for drinking nor for agriculture purpose. Co-generation plant is run by using coal as its fuel. Coal causes health problems. Bagasse should be used instead of coal. The expansion should be done as per the guidelines laid down by Hon'ble National Green Tribunal and M.P.C Board. We have come to know that the factory has already done its expansion by installing all machinery and the public hearing is held just for show.</p>
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Environment Consultant of the Karkhana, Dr B. Subbarao submitted his explanation to above issues as follows:-

All reports pertaining to pollution are submitted by Padmaja Aerobiologicals (P) Ltd, which is MOEF approved Laboratory. Presently, we are going to increase capacity of sugar factory and not of co-generation plant. No other industry has as good Effluent Treatment Plant as this sugar factory has. The treated waste water is supplied to 40 hectares of agricultural lands which have produced maximum 115 MT of sugar cane per acre and average production is 40 to 50 tons per acre. We have executed bilateral agreement with nearby member farmers for disposal of treated effluent in their fields.

Last year, the officers of Central Pollution Control Board had visited this factory. They visited Effluent Treatment Plant. I was also with them. I have also visited the site twice before this visit. The waste water is discharged on land for irrigation only after treatment. After looking at the production of sugarcane crops, we can believe it. It is incorrect to say that we dispose untreated waste water for agriculture.

The factory has planted about 21000 trees for green belt development. No other industry has developed as good green belt as developed by this factory.

As per TOR, we have collected and analysed samples of air, water and noise etc. For Shree Datta Shree of Shree Sakhar Karkhana Ltd, Shree



Managing Director  
Managing Director

discharged into nallahs. Maharashtra Pollution Control Board is monitoring regularly.

Following Grampanchayats submitted copies of resolutions passed in favour of the proposed project in their Monthly Meetings to the Convener of the public hearing.


- 1 Grampanchayat, Shirol
- 2 Grampanchayat, Agar
- 3 Grampanchayat, Dharangutti
- 4 Grampanchayat, Arjunwad
- 5 Grampanchayat, Kondigre


Similarly, some of the villagers submitted their representation regarding the proposed project.

Hon'ble Chairman informed that this public hearing committee has no power to grant permission to the proposed project. It only conducts the public hearing and submits minutes of the meeting to the Government for further decision. Accordingly, the minutes of this public hearing will be submitted to the Government.

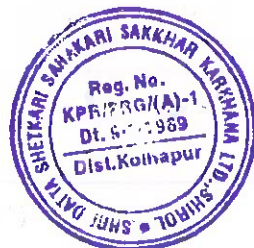
Finally, Hon'ble Chairman thanked all the participants for their cooperation to conduct the public hearing peacefully and concluded the hearing.

The copies of the representations/complaints received in respect of the proposed project are enclosed with the minutes.

  
(Sou Indira Gaikwad)  
Convener  
Cum  
Sub Regional Officer,  
MPCB, Kolhapur.

  
(N. H. Shivangi)  
Member  
Cum  
Regional Officer,  
MPCB, Kolhapur

  
(Sanjay Shinde)  
Chairman  
Cum  
Additional District Magistrate  
Kolhapur



For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shirol

  
Managing Director

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Annexure - IV

**Addition of Equipment Suitable For 9000 TCD & its Tentative Cost**

Sr.No.			Cost In Lacs
01.	Cane Carrier	Extension of width up to 2300mm with 200mm pitch chain, Suitable planetary drive and motor	60
02.	Cane Chopper	New assembly of 54 knives with reduction gear box and motor	20
03	Cane Leveler	New swing type assembly of stalled edge knives	25
04	Cane Fibrizer	Modification b adding two more dice and by increasing n <sup>o</sup> of hammers suitable to extended cane Carrier width	20
05	Rake Elevator	Modification of carrier suitable for extended cane carrier width	15
06	Mill No.01	Addition of TUFR roller above the existing TRF	25
07	New Mill	Two roller mill as 6 <sup>th</sup> mill of size 45" X 90" with suitable planetary gear box and AC VFD drive and rake type elevator	650
08	Addition	of identical pumps for strained & unstrained juice	20
09	Bagasse Elevator	Existing bagasse elevator modification to suit new 6 <sup>th</sup> mill and replacement of chain by 200mm pitch, 80 T breaking load	25
10	Main Bagasse Carrier	Modification to suit new 6 <sup>th</sup> mill and replacement of chain by 200mm pitch and 80T breaking load	25
11	Mill House Craine	Modification and extension of gantry suit new 6 <sup>th</sup> mill	25
		<b>Total-</b>	<b>910</b>



For Shree Datta Shetkar Shakari Sakhar Karkhana Ltd; Shirol

*(Signature)*

**Managing Director**



Managing Director

## Addition of Equipment Suitable For 9000 TCD & its Tentative Cost

Sr.No.	Equipment Name	Cost In Lacs
01.	Sulphitor/Syrup Tower	40
02.	500 m <sup>2</sup> Heating surface Juice heater (4 Nos)	180
03.	400 m <sup>2</sup> Heating surface Juice heater (2 Nos)	60
04.	Rj/Sj/Cj Juice Pump (9 Nos)	36
05.	Syrup pump (2 Nos)	6
06.	NK 1500 Cont. C/F Machine (2 Nos)	37.5
07.	10 X 20 Feet Oliver Filter (1 No.)	40
08.	Sul/Clear Juice DCH	75
09.	32 Feet Clarifier	100
	<b>Total-</b>	<b>574</b>

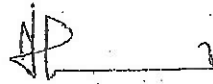
The total tentative cost for additional equipment suitable for 9000TCD is 1484 Lacs.

### Steam-

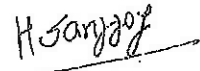
Steam requires for 375 TCH Cane Crushing is 135 T/Hr@36 % on cane which is supplied by existing setup of Co-Generation of Capacity 36 MW, having boiler capacity 180 TPH.

### Power-

Power required for 375 TCH cane crushing is 9 MW @ 24 kwh/TCH Which is supplied by existing setup of Co-generation having capacity 36 MW.



Chief Chemist



Works Manager



For Shree Datta Shetkar Shakari Sakhar Karkhana Ltd; Shirur

  
Managing Director