



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. 6453 /MoEF/2020/21

Date: 31/12/2021

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.

Subject: Six Monthly Compliance Report for the Period of June 2021 to December 2021

Reference:

1. Environmental Clearance for the expansion/modernization of the sugar factory capacity from 7500 TCD (313 TCH) to 9000 TCD (375 TCH) at Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd., SEIAA Meeting No: 130 Meeting Date: May 25, 2018 (SEIAA STATEMENT-0000000041) SEIAA-MINUTES-0000000450, SEIAA-EC-0000000326, dated-1st June, 2018
2. Environmental Clearance for the expansion of the Distillery unit from 30 KLPD to 60 KLPD at Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd., vide MOEF letter No. J-11011/33/2001/II(I) Dtd 11/12/2001.

Dear Sir,

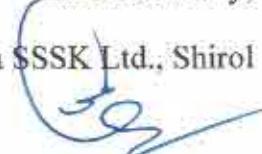
With Reference to the above subject matter reference submitting the environmental status Report and Compliance of environmental Clearance conditions.

However, we may mention that factory expanded sugar factory capacity 9000 TCD to 9500 TCD only without any additional inputs such as Water, Fuel and Effluent Generation for which the Consent to operate is received vide 0000102937/CO-2103001364 dated 22nd March 2021.

Thanking You,

Yours faithfully,

For Shree Datta SSSK Ltd., Shirol


(M.V.Patil)

Managing Director

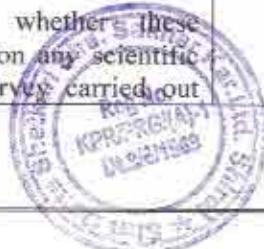
Monitoring the Implementation of Environmental Safeguards
 Simpo PDF Merge and Split Unregistered Version - <http://www.simpopdf.com>
 Ministry of Environment, Forest & Climate Change
 Regional Office (West Central Zone), Nagpur

Monitoring Report
Part – I
DATA SHEET

1.	Project Type: River-valley / Mining / Industry /Thermal / Nuclear / Other (Specify)	Industry
2.	Name of the Project	The industry received Environment Clearance for Proposed Expansion of Sugarcane crushing capacity from 9000 TCD to 15000 TCD, Distillery capacity from 60 KLPD to 90 KLPD (Rectified Spirit/ENA/Ethanol) and establishment of 21 + 5 MW Co-generation Power Plant at Dattanagar, Tal. Shirol, Dist. Kolhapur, Maharashtra by Shree Datta Shetkari Sahakari Sakhar Karkhana Limited Environment Clearance is awarded- SEIAA-EC-0000002257 dated 1 st June 2020. The industry expanded the sugarcane crushing capacity from 9000 TCD to 9500 TCD only, distillery capacity remains same as 60 KLPD and co-generation power plant is at yet to be established.
3.	Clearance Letter (s) / OM No. and date	SEIAA-EC-0000002257 Dated- 1 st June 2020
4.	Location District (s) State (s) Latitude Longitude	at Dattanagar, Tal. Shirol, Dist. Kolhapur, Maharashtra by Shree Datta Shetkari Sahakari Sakhar Karkhana Limited Kolhapur Maharashtra 16 45'N 74 36'E
5.	Address for correspondence Address of concerned Project Chief Engineer (with Pin Code &	Managing Director:- Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd., For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd., Shirol Page 1 of 3



	<p>Telephone/ Telex/ Fax Numbers) Simp PDF Merge and Split Unregistered Version - http://www.simpopdf.com</p> <p>& Address of Executive Project Engineer / Manager (with pin code/fax numbers)</p>	<p>Shiro, Post-Dattanagar, 416120 Tal-Shiro, Dist- Kolhapur Tel No.: (02322) 236551 (6 lines) Fax. No.- (02322) 236600</p>
6.	<p>Salient features Of the Project</p>	<p>The factory expanded sugar factory capacity 9000 TCD to 9500 TCD only for which the Consent to operate is received vide 0000102937/CO-2103001364 dated 22nd March 2021. The factory having distillery capacity of 60 KLPD only for which the Consent to operate is received vide 0000075867/CR-2001000575 dated 7th January 2020 and valid up to 31st August 2024.</p>
	<p>Of the Environmental Management Plan</p>	<p>1. The industry has its own land of 854600 Sq. m. out of which 293916.82 sq.m. of land is utilized for Green belt development. 2. Rainwater harvesting already implemented & collected in a pond & used for process/green belt development after treatment. 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. 4. The industry has provided online monitoring system and connected to CPCB/MPCB servers. 5. The raw spentwash generated shall be treated based on concentration in MEE followed by composting in order to achieve the Zero Liquid Discharge.</p>
7.	<p>Breakup of the Project area Submergence Area: Forest & Non Forest Others</p>	<p>Not Applicable.</p>
	<p>Total Plot Area</p>	<p>85.46 Ha (Out of which the industry sold 0.60 Ha of land to Datta Bhandar, 7.57 Ha of land to Educational trust & 15.25 Ha land is given on lease to Urjankr shree datta power ltd. The maintenance of the area & green belt development shall be carried out by Shree Datta SSSK Ltd., Thus the total area available with Datta SSSK ltd is only 62.04 hectares.</p>
	<p>Built - Up Area (Including Road)</p>	<p>22.11 Ha</p>
	<p>Open Space available</p>	<p>0.48 Ha</p>
	<p>Green belt area</p>	<p>29.64 ha</p>
8.	<p>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 SC, ST/Adivasis Others (Please indicate whether these figures are based on any scientific and systematic survey carried out</p>	<p>Not Applicable.</p>



For Shree Datta Shakan Shakan Sakhar Karkhane Ltd, Shiro

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Managing Director

	or only provisional figures, if a survey is being carried out in the years of survey.)	
9.	Financial Details	
	Project costs as originally planned & subsequent revised estimates and the year of price reference.	Sugar - 151.16 Crores & Distillery – 26.3022 Crores
	Allocations made for Environmental Management Plan with item wise & year wise breakup.	The expansion project is yet to commission the budget allocation for EMP is 35.5 Crores.
	Benefit Cost Ratio / Internal rate of Return and the year of assessment	Not Applicable
	Whether (c) includes the cost of Environmental Management as shown in the above.	No
	Actual expenditure incurred on the Project so far	Nil
	Actual expenditure incurred on the Environmental Management Plan so far	Nil
10.	Forest land requirement The status of approval for diversion of Forestland for non-forestry use The Status of clearing felling The status of compensatory Afforestation programme in the light of actual field experience	Nil
11.	The status of clear felling in non-forest areas (such as submergence area of reservoir, Approach roads), if any with quantitative information	Not Applicable.
12.	Status of construction Date of commencement (Actual and/or Planned) Date of completion (Actual and/or Planned)	Not Yet started Not Applicable
13.	Reasons for the delay if the project is yet to start	Project approvals are still pending.
14.	Dates of site visits The dates on which the Project was monitored by Regional Office on previous occasions, if any Date of site visit for this monitoring Report	24/09/2021
15.	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. (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)	Enclosed



For Shree Datta Shettar Shakari Sakhar Karkhana Ltd, Bhiwadi

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 Managing Director

PROFARMA FOR COMPLIANCE OF ENVIRONMENT CLEARENCE CONDITIONS OF SUGAR UNIT

1.	Period of Submission of half yearly Compliance Report	June 2021 to December 2021
2.	Air, Water Analysis Data	Annexure I.
3.	Current States of the Project	(A) The factory expanded sugar factory capacity from 9000 TCD to 9500 TCD only without any additional inputs such as Water, Fuel and Effluent Generation for which the Consent to operate is received vide 0000102937/CO-2103001364 dated 22 nd March 2021. (B) The factory having distillery capacity of 60 KLPD only for which the Consent to operate is received vide 0000075867/CR-2001000575 dated 7 th January 2020 and valid up to 31 st August 2024.
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: klp.dattssk@gmail.com Website: www.dattasugar.co.in
5.	Legal Status	No Court Cases.
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 Shethkari Sahakari Sakhar Karkhana Ltd; Sh

Managing Director

ENVIRONMENTAL CLEARANCE CONDITIONS AND COMPLIANCE FOR 7500 TCD TO 9000 TCD

Sr. No.	EC Conditions	Compliance
Specific Conditions:		
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.	Submitted copy of agreement from irrigation department for lifting of River water. Annexure-II
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. Annexure-III
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. Annexure-IV
4.	PP to submit letter mentioning exact project cost.	Annexure-V
General Conditions:		
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	The stack height provided for DG set is 6 meter above the

	dispersion of pollutant from DG set. (If applicable).	roof level.
7.	A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.	Complied.
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 Annexure-I.
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 Annexure I
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.	The industry planted 44000 trees as per the guidelines of the CPCB for greenbelt development.
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: Shiro

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 lubricant oil for bullock carts within factory premises.
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.	M Sc. (Environmental Science) is designated as Deputy General Manager and Head of the Environmental Management cell with three chemists and five operators to assist him.
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 be 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 http://ec.maharashtra.gov.in	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 st June & 1 st December of each calendar year.	Submitted regularly and also uploaded on "Parivesh" portal
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.

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 ₂ , NO _x (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 st 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 Shetakari Sahakari Sakhar Karkhana Ltd; Shiroli



Managing Director

Shri Datta Shetakari Sahakari Sakhar Karkhana Ltd.

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

A. SPECIFIC CONDITIONS:

- i. The treated effluents are meeting the SPCB standards. The summarized results are enclosed. **Annexure-I**.
- ii. 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. 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 composting plant has been working satisfactorily. Photographs of the Composting plant are attached.
- v. The composting process is based on raw spentwash using mainly Pressmud, Bagasse, Fly Ash and agriculture trash etc. as filler material. The spent wash composting is carried out on seepage proof concrete 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. 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 20 Bed Hospitals in our campus.

B. GENERAL CONDITIONS :

- i. The MPCB consent conditions are being followed strictly.
- ii. We shall be informing to the MoEF and obtain permission for any modernization/ expansion of the project.
- iii. 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 **Annexure I**.
- iv. Complied and regular monitoring of influent and effluent samples were carried as per the consent conditions of the MPCB and the results are enclosed.



Shri Datta Shetakari Sahakari Sakhar Karkhana Ltd.

- v. Complied and the noise levels are regularly monitored and the results are enclosed in **Annexure I**
- vi. The industry planted 44000 trees as per the guidelines of the CPCB for greenbelt development.
- vii. Complied.
- viii. 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. Complied and six monthly compliance report is submitted regularly.
- x. These conditions have been already fulfilled.
- xi. a) Date of Financial Closer is - 03/08/2003
 - a. b) Date of Financial Approval - 30/12/2000
 - b. c) Date of Start of Development Work - 09/03/2001

Thanking you.



Yours faithfully
For Shree Datta SSSK Ltd. Shirol.

A handwritten signature in blue ink, appearing to read "M. V. Patil".

(M. V. Patil)
Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

Annexure I

TEST REPORT

Report Ref. No. : SEC/Stack-XU/11-21	Nature of Sample: Stack
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Date of Analysis: 21 Nov 2021
Date of Receipt : 13 November 2021	End of Analysis : 21 Nov 2021
Date of Collection / Sampling : 13 November 2021	Report Date: 25 Nov 2021
Name of Sample :Stack Monitoring	

Sr. No.	Parameter	Results	Limit	Method Used
1.	Stack Height (m)	30.0	--	--
2.	Stack Diameter (m)	3.0	--	--
3.	Boiler Capacity (TPH)	10.00	--	--
4.	Fuel Used	Bagasse	--	--
5.	Flue Gas Tem.(°C)	124		
6.	Flue Gas Velocity (m/sec.)	8.7		
7.	P.M.(mg/Nm ³)	68	150	IS 11255m(Part 1): 1985, Reaffirmed 2003
8.	NO _x (mg/Nm ³)	40	80	IS-11255 (Part 2): 1985 Reaffirmed 2009
9.	SO ₂ (mg/Nm ³)	21	80	IS-11255 (Part 7): 2005 Reaffirmed 2012

Remarks:

The stack monitoring analysis results indicate that all the parameters are within prescribed limits, indicating the APC performance is satisfactory.



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol

Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/AA-PP/12-19, 01-20 & 02-20	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: 30 th Oct, 25 th Nov and 9 th Dec 2021..
Name of Sample : Ambient Air Monitoring	

Sr. No	Sampling Station	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _X ($\mu\text{g}/\text{m}^3$)	AQI
	NAAQ Standard 2009	100 $\mu\text{g}/\text{m}^3$	60 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$	
	Hours	24hr	24hr.	24hr	24hr	
Sampling Date: 30th Oct 2021						
1	Near Bagasse Yard	60	23	08.00	10.00	60
2	Near Cane Yard	57	22	07.00	10.00	57
3	Near Factory Colony	54	21	06.00	08.00	54
4	Factory Main Gate	64	26	10.00	12.00	64
Sampling Date: 25th Nov 2021						
1	Near Bagasse Yard	69	28	09.00	11.00	69
2	Near Cane Yard	70	29	10.00	12.00	70
3	Near Factory Colony	57	24	06.00	08.00	57
4	Factory Main Gate	66	27	10.00	12.00	66
Sampling Date: 09th Dec 2021						
1	Near Bagasse Yard	65	24	06.00	08.00	65
2	Near Cane Yard	67	25	08.00	10.00	67
3	Near Factory Colony	54	22	06.00	08.00	54
4	Factory Main Gate	61	24	08.00	10.00	61
Mean	Near Bagasse Yard	64.67	25.00	7.67	9.67	
	Near Cane Yard	64.67	25.33	8.33	10.67	
	Near Factory Colony	55.00	22.33	6.00	8.00	
	Factory Main Gate	63.67	25.67	9.33	11.33	
Standard Deviation	Near Bagasse Yard	4.51	2.65	1.53	1.53	
	Near Cane Yard	6.81	3.51	1.53	1.15	
	Near Factory Colony	1.73	1.53	0.00	0.00	
	Factory Main Gate	2.52	1.53	1.15	1.15	



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd, Shirol

Signature of Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

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 from Oct 2021 to Dec 2021 for the parameters PM₁₀, PM_{2.5}, SO₂ and NO_x. 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.

Arithmetic Mean and Standard Deviation calculation indicates the Concentration of the Pollutants have not varied significantly during the period.



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol


Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. :SEC/W-XU/11-21	End of Analysis :23 Novr 2021
Name of Industry/Customer: Shri Datta SSSK Ltd., Dattanagar.	Report Date :25 November 2021
Address: Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur.	Lab ID/Sample Ref. No. :XU4
Date of Collection / Sampling :13 November 2021	Nature of Sample: Water
Date of Receipt :13 November 2021	Sample Collected By: SEC Lab
Date of Analysis: 15 November 2021	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Inlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	3.99	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3644	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1590	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2810	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	370	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	346	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	172	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	10	mg/l	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd, Shirol


 Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. :SEC/W-XU/11-21	End of Analysis :23 Nov 2021
Name of Industry/Customer: Shri Datta SSSK Ltd., Dattanagar,	Report Date :25 Nov 2021
Address: Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur.	Lab ID/Sample Ref. No. : XU5
Date of Collection / Sampling :13 November 2021	Nature of Sample: Water
Date of Receipt :13 November 2021	Sample Collected By: SEC Lab
Date of Analysis: 15 November 2021	Sample Quantity : 1 lit
Name of Sample :Sugar ETP Outlet	

Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.74	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	117	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	35	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	460	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	44	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	106	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	72	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remark:

The outlet concentrations are within prescribed limits of CPCB.



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol

Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. :SEC/W-XU/11-21	End of Analysis :23 Nov 2021
Name of Industry/Customer: Shri Datta SSSK Ltd., Dattanagar.	Report Date :25 Nov 2021
Address: Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur.	Lab ID/Sample Ref. No. : XU7
Date of Collection / Sampling :13 November 2021	Nature of Sample: Water
Date of Receipt :13 November 2021	Sample Collected By: SEC Lab
Date of Analysis: 15 November 2021	Sample Quantity : 1 lit
Name of Sample :Condensate Outlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	8.11	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	130	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	34	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	98	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	12	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	8	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol


 Managing Director

TEST REPORT

Report Ref. No. :SEC/W-XU/11-21	End of Analysis :23 Nov 2021
Name of Industry/Customer: Shri Datta SSSK Ltd., Dattanagar.	Report Date :25 Nov 2021
Address: Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur.	Lab ID/Sample Ref. No. : XU6
Date of Collection / Sampling :13 November 2021	Nature of Sample: Water
Date of Receipt :13 November 2021	Sample Collected By: SEC Lab
Date of Analysis: 15 November 2021	Sample Quantity : 1 lit
Name of Sample :Spray-pond Outlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	7.59	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	227	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	76	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	610	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	90	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	79	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	138	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; S


Managing Director

TEST REPORT

Report Ref. No. :SEC/W-XU/11-21	End of Analysis :23 Nov 2021
Name of Industry/Customer: Shri Datta SSSK Ltd., Dattanagar.	Report Date :25 Nov 2021
Address: Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur.	Lab ID/Sample Ref. No. : XU11
Date of Collection / Sampling :13 November 2021	Nature of Sample: Water
Date of Receipt :13 November 2021	Sample Collected By: SEC Lab
Date of Analysis: 15 November 2021	Sample Quantity : 1 lit
Name of Sample :Sugar ETP Sludge	

Sr. No.	Test Parameter	Unit	Result
1	Moisture	%	61.95
2	pH (Saturated)	--	8.62
3	Total Volatile Solids	%	59.71
4	Residual Ash	%	40.29
5	Nitrogen as N	%	0.32
6	Phosphorus as P2O5	%	0.17
7	Potassium as K2O	%	0.26
8	Organic Carbon	%	56.9



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol


Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. :SEC/W-XU/11-21	End of Analysis :23 Novr 2021
Name of Industry/Customer: Shri Datta SSSK Ltd., Dattanagar.	Report Date :25 November 2021
Address: Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur.	Lab ID/Sample Ref. No. :XUI
Date of Collection / Sampling :13 November 2021	Nature of Sample: Water
Date of Receipt :13 November 2021	Sample Collected By: SEC Lab
Date of Analysis: 15 November 2021	Sample Quantity : 1 lit
Name of Sample : Raw Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	2.73	IS:3025 (P-11) 1983
2	C.O.D	mg/l	1,24,690	IS:3025 (P-58) 2006
3	B.O.D	mg/l	55,210	IS:3025 (P-44) 1993
4	Total Solids	mg/l	2,06,520	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	1,15,360	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	91,160	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	10,740	IS:3025 (P-32) 1988
8	Sulphates	mg/l	7632	IS:3025 (P-24) 1986
9	K	mg/l	14,810	IS:3025 (P-45) 1993



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirc



Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

<u>TEST REPORT</u>	
Report Ref. No. :SEC/W-XU/11-21	End of Analysis :23 Novr 2021
Name of Industry/Customer: Shri Datta SSSK Ltd., Dattanagar.	Report Date :25 November 2021
Address: Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur.	Lab ID/Sample Ref. No. :XU2
Date of Collection / Sampling :13 November 2021	Nature of Sample: Water
Date of Receipt :13 November 2021	Sample Collected By: SEC Lab
Date of Analysis: 15 November 2021	Sample Quantity : 1 lit
Name of Sample : Spentlees Old Plant	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	3.06	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	126	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	54	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	160	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	25	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄ ²⁻	20	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol

Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. :SEC/W-XU/11-21	End of Analysis :23 Novr 2021
Name of Industry/Customer: Shri Datta SSSK Ltd., Dattanagar.	Report Date :25 November 2021
Address: Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur.	Lab ID/Sample Ref. No. :XU3
Date of Collection / Sampling :13 November 2021	Nature of Sample: Water
Date of Receipt :13 November 2021	Sample Collected By: SEC Lab
Date of Analysis: 15 November 2021	Sample Quantity : 1 lit
Name of Sample : Spentlees New Plant	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	3.29	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	114	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	52	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	140	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	22	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	18	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)



For Shree Datta Shetkari Shaktari Sahakari Karkhana Ltd; Shirol


 Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/NL-XJ,XU,YH/10,11,12-21	Nature of Sample: Noise Level
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Noise Level	

Sr. No.	Location of recording Sound level	dB (A) Leq			Time	Standard Limit dB (A) Leq
		October	November	December		
1.	Near Main Gate	54.7	54.7	54.9	Day	75
		50.1	50.1	50.3	Night	70
2.	Near Cane Yard	58.7	68.7	63.5	Day	75
		52.1	62.1	57.2	Night	70
3.	Near Bagasse Yard	57.1	69.1	68.8	Day	75
		52.5	65.5	64.3	Night	70
4.	Near Factory Colony	52.7	70.7	66.9	Day	75
		46.3	67.3	62.7	Night	70
5.	Near General Office	50.7	71.8	60.1	Day	75
		44.3	70.7	57.8	Night	70
6.	Near Guest House	51.4	65.4	58.5	Day	75
		44.5	62.5	52.6	Night	70
7.	Near Factory East Boundary	57.3	57.3	67.3	Day	75
		48.4	48.4	63.4	Night	70
8.	Near Factory West Boundary	56.1	56.1	68.1	Day	75
		47.4	47.4	64.4	Night	70
9.	Near Factory North Boundary	55.3	57.1	56.3	Day	75
		48.0	55.0	48.0	Night	70
10.	Near Factory South Boundary	56.1	50.7	58.1	Day	75
		47.7	44.0	47.7	Night	70

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 Sahakari Sakhar Karkhana Ltd: Shirol



Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/W-XJ,XU,YH/10,11,12-21	Nature of Sample: Water
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Piezometer No – 1	

Sr. No.	Test Parameter	Unit	Result			IS:2296 Standards	Test Method
			Oct	Nov	Dec		
1	*Color	Hazen	<5	<5	<5	--	IS:3025 (P-4) 1983
2	*Odor	--	Agreeable			--	IS:3025 (P-5) 1983
3	pH	--	7.71	7.69	7.63	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	1.3	1.2	1.4	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	290	280	274	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	34	33	31	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	7	7	6	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	1290	1280	1275	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	242	245	244	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	740	740	736	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	216	212	210	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	49	51	51	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	168.2	167.2	165.3	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	7.1	7.0	6.8	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	32.79	51.23	32.61	60	By Calculation
16	Sodium Absorption Ratio	---	2.68	3.96	2.65	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-9.08	-1.2	-9.27	2.5	By Calculation
18	Electrical Conductivity	μmhos/cm	2130	2120	2110	2250	IS:3025 (P-14) 1984



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd. Shir

Managing Director

TEST REPORT

Report Ref. No. : SEC/W-XJ,XU,YH/10,11,12-21	Nature of Sample: Water
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Piezometer No – 2	

Sr. No.	Test Parameter	Unit	Result			IS:2296 Standards	Test Method
			Oct	Nov	Dec		
1	*Color	Hazen	< 5	< 5	< 5	—	IS:3025 (P-4) 1983
2	*Odor	--	Agreeable			—	IS:3025 (P-5) 1983
3	pH	--	7.79	7.76	7.75	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	1.7	1.8	1.6	—	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	278	274	270	—	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	39	38	37	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	7	7	6	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	1310	1300	1280	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	270	273	271	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	790	782	778	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	224	225	226	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	56	54	52	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	171.8	170.3	168.9	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	7.5	7.4	7.1	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	31.86	31.83	31.81	60	By Calculation
16	Sodium Absorption Ratio	---	2.65	2.64	2.63	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-10.3	-10.27	-10.23	2.5	By Calculation
18	Electrical Conductivity	μmhos/cm	2310	2290	2280	2250	IS:3025 (P-14) 1984



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol

Managing Director

Shri Datta Shetakari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/W-XJ,XU,YH/10,11,12-21	Nature of Sample: Water
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Piezometer No – 3	

Sr. No.	Test Parameter	Unit	Result			IS:2296 Standards	Test Method
			Oct	Nov	Dec		
1	*Color	Hazen	< 5	< 5	< 5	--	IS:3025 (P-4) 1983
2	*Odor	--	Agreeable			--	IS:3025 (P-5) 1983
3	pH	--	7.72	7.75	7.73	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	1.4	1.5	1.2	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	292	288	284	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	41	40	38	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	9	8	7	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	1360	1350	1340	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	256	252	249	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	828	830	826	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	242	246	245	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	54	52	52	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	168.2	165.7	164.5	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	7.3	7.0	6.9	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	30.45	30.10	30.01	60	By Calculation
16	Sodium Absorption Ratio	---	2.54	2.5	2.49	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-10.76	-10.8	-10.9	2.5	By Calculation
18	Electrical Conductivity	μmhos/cm	2380	2350	2340	2250	IS:3025 (P-14) 1984



For Shree Datta Shetakari Sahakari Sakhar Karkhana Ltd, Shirol


 Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

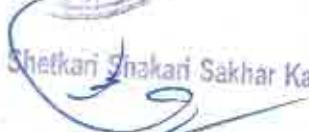
TEST REPORT

Report Ref. No. : SEC/W-XJ,XU,YH/10,11,12-21	Nature of Sample: Water
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Piezometer No – 4	

Sr. No.	Test Parameter	Unit	Result			IS:2296 Standards	Test Method
			Oct	Nov	Dec		
1	*Color	Hazen	< 5	< 5	< 5	—	IS:3025 (P-4) 1983
2	*Odor	—	Agreeable			—	IS:3025 (P-5) 1983
3	pH	—	7.69	7.70	7.72	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	1.8	1.6	1.5	—	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	274	270	262	—	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	36	34	33	—	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	6	6	6	—	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	1190	1170	1160	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	232	230	227	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	740	740	732	—	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	226	224	220	—	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	43	44	44	—	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	160.9	159.5	157.2	—	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	6.2	6.1	6.0	—	IS:3025 (P-45) 1993
15	% Na (Max)	%	31.84	31.68	31.66	60	By Calculation
16	Sodium Absorption Ratio	---	2.57	2.54	2.53	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-9.4	-9.46	-9.42	2.5	By Calculation
18	Electrical Conductivity	μmhos/cm	2180	2160	2140	2250	IS:3025 (P-14) 1984



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol


Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/S-XJ,XU,YH/10,11,12-21	Nature of Sample: Soil
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Soil [Near Spentwash Storage Pond]	

Sr. No.	Test Parameter	Unit	Result			Test Method (Testing Manual of Soil, Ministry of Agriculture, Govt. of India-2011)
			Oct	Nov	Dec	
1	pH	--	7.72	7.69	7.62	PP – 77-78
2	Conductivity	mmhos/cm	0.310	0.330	0.310	PP – 81-82
3	Mineralizable Nitrogen	%	0.054	0.057	0.055	PP – 89-91
4	Available Phosphorus	Kg/ha	52	51	52	PP – 96-98
5	Available Potassium	Kg/ha	610	640	590	PP – 99-100
6	Organic Carbon	%	0.61	0.62	0.60	PP – 84-85
7	Calcium (as Ca)	%	2.76	2.58	2.54	PP – 103-104
8	Magnesium (as Mg)	%	0.27	0.23	0.22	PP – 104-105



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol

 Managing Director

TEST REPORT

Report Ref. No. : SEC/S-XJ,XU,YH/10,11,12-21	Nature of Sample: Soil
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Soil [Near Molasses Tank]	

Sr. No.	Test Parameter	Unit	Result			Test Method (Testing Manual of Soil, Ministry of Agriculture, Govt. of India-2011)
			Oct	Nov	Dec	
1	pH	--	7.84	7.79	7.74	PP – 77-78
2	Conductivity	mmhos/cm	0.310	0.308	0.302	PP – 81-82
3	Mineralizable Nitrogen	%	0.054	0.056	0.054	PP – 89-91
4	Available Phosphorus	Kg/ha	50	51	52	PP – 96-98
5	Available Potassium	Kg/ha	590	580	550	PP – 99-100
6	Organic Carbon	%	0.57	0.61	0.59	PP – 84-85
7	Calcium (as Ca)	%	2.78	2.84	2.79	PP – 103-104
8	Magnesium (as Mg)	%	0.24	0.26	0.24	PP – 104-105



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol

Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/S-XJ,XU,YH/10,11,12-21	Nature of Sample: Soil
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Soil [Near Compost Yard]	

Sr. No.	Test Parameter	Unit	Result			Test Method (Testing Manual of Soil, Ministry of Agriculture, Govt. of India-2011)
			Oct	Nov	Dec	
1	pH	--	7.79	7.76	7.76	PP – 77-78
2	Conductivity	mmhos/cm	0.270	0.290	0.290	PP – 81-82
3	Mineralizable Nitrogen	%	0.059	0.061	0.061	PP – 89-91
4	Available Phosphorus	Kg/ha	51	53	53	PP – 96-98
5	Available Potassium	Kg/ha	460	490	490	PP – 99-100
6	Organic Carbon	%	0.63	0.61	0.61	PP – 84-85
7	Calcium (as Ca)	%	2.51	2.55	2.55	PP – 103-104
8	Magnesium (as Mg)	%	0.23	0.21	0.21	PP – 104-105



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol



Managing Director

TEST REPORT

Report Ref. No. : SEC/S-XJ,XU,YH/10,11,12-21	Nature of Sample: Soil
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Soil [Desai Farm]	

Sr. No.	Test Parameter	Unit	Result			Test Method (Testing Manual of Soil, Ministry of Agriculture, Govt. of India-2011)
			Oct	Nov	Dec	
1	pH	—	7.69	7.64	7.62	PP – 77-78
2	Conductivity	mmhos/cm	0.340	0.350	0.370	PP – 81-82
3	Mineralizable Nitrogen	%	0.061	0.062	0.063	PP – 89-91
4	Available Phosphorus	Kg/ha	53	55	56	PP – 96-98
5	Available Potassium	Kg/ha	490	510	540	PP – 99-100
6	Organic Carbon	%	0.67	0.68	0.67	PP – 84-85
7	Calcium (as Ca)	%	2.85	2.71	2.76	PP – 103-104
8	Magnesium (as Mg)	%	0.21	0.22	0.25	PP – 104-105



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd, Shirur

 Managing Director

Shri Datta Shetakari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/W-XJ,XU,YH/10,11,12-21	Nature of Sample: Soil
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Well Water [Desai Farm]	

Sr. No.	Test Parameter	Unit	Result				IS:2296 Standards	Test Method
			Jun	Oct	Nov	Dec		
1	*Color	Hazen	< 5	< 5	< 5	< 5	--	IS:3025 (P-4) 1983
2	*Odor	--	Agreeable				--	IS:3025 (P-5) 1983
3	pH	--	7.26	7.31	7.36	7.39	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	0.1	0.1	0.1	0.1	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO_3)	mg/l	270	258	254	240	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	26	24	23	22	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	< 4	< 4	< 4	< 4	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	1090	980	970	950	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	162	145	142	136	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO_3)	mg/l	540	510	504	492	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	184	158	156	154	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	20	28	28	26	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	138.7	132.9	132.5	129.7	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	4.1	4.0	4.2	4.1	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	35.55	35.96	36.10	36.22	60	By Calculation
16	Sodium Absorption Ratio	---	2.59	2.56	2.56	2.54	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-5.46	-5.07	-5.05	-5.06	2.5	By Calculation
18	Electrical Conductivity	$\mu\text{mhos}/\text{cm}$	1810	1670	1650	1620	2250	IS:3025 (P-14) 1984



For Shree Datta Shekari Chakari Sakhar Karkhana Ltd. Shirur


Bappa Shetkari Shikari Sakhar Karkar
Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/W-XJ,XU,YH/10,11,12-21	Nature of Sample: Soil
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Well Water[Mr. Vinayak Patil]	

Sr. No.	Test Parameter	Unit	Result				IS:2296 Standards	Test Method
			Jun	Oct	Nov	Dec		
1	*Color	Hazen	<5	<5	<5	<5	--	IS:3025 (P-4) 1983
2	*Odor	--	Agreeable				--	IS:3025 (P-5) 1983
3	pH	--	7.52	7.54	7.51	7.48	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	0.1	0.1	0.1	0.1	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	190	184	176	168	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	21	22	21	20	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	<4	<4	<4	<4	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	690	710	680	630	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	128	124	121	116	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	450	430	426	420	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	119	116	114	108	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	37	34	34	37	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	90.7	92.5	91.4	89.1	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	3.1	3.8	3.9	3.3	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	30.32	31.65	31.64	31.26	60	By Calculation
16	Sodium Absorption Ratio	---	1.86	1.94	1.92	1.88	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-5.23	-4.95	-5.01	-5.12	2.5	By Calculation
18	Electrical Conductivity	μmhos /cm	1030	1050	1030	980	2250	IS:3025 (P-14) 1984



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol



Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/W-XJ,XU,YH/10,11,12-21	Nature of Sample: Soil
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Well Water[Mr. Mohan Pujari]	

Sr. No.	Test Parameter	Unit	Result				IS:2296 Standards	Test Method
			Jun	Oct	Nov	Dec		
1	*Color	Hazen	< 5	< 5	< 5	< 5	--	IS:3025 (P-4) 1983
2	*Odor	--	Agreeable				--	IS:3025 (P-5) 1983
3	pH	--	7.57	7.55	7.53	7.56	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	0.5	0.2	0.1	0.1	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	170	162	162	154	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	24	23	21	18	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	< 4	< 4	< 4	< 4	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	710	680	670	640	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	142	134	130	112	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	570	550	548	536	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	178	172	170	168	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	31	29	30	28	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	106.5	104.8	103.6	97.8	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	3.8	3.5	3.4	3.1	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	28.65	29.18	28.98	28.31	60	By Calculation
16	Sodium Absorption Ratio	--	1.93	1.94	1.92	1.83	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-8.08	-7.77	-7.76	-7.65	2.5	By Calculation
18	Electrical Conductivity	μmhos /cm	1170	1090	1080	1020	2250	IS:3025 (P-14) 1984



For Shree Datta Shetkari/Shakari Sakhar Karkhana Ltd. Shirol



Managing Director

Shri Datta Shetkari Sahakari Sakhar Karkhana Ltd.

TEST REPORT

Report Ref. No. : SEC/W-XJ,XU,YH/10,11,12-21	Nature of Sample: Soil
Name of Industry/Customer: Shri Datta SSSK Ltd.	Sample Collected By: SEC Lab
Address: A/p. Dattanagar – 416120, Tal: Shirol, Dist. Kolhapur	Report Date: 30 th Oct, 25 th Nov and 9 th Dec 2021.
Name of Sample : Well Water [Mr.Anilrao Yadav, Udgaon]	

Sr. No.	Test Parameter	Unit	Result				IS:2296 Standards	Test Method
			Jun	Oct	Nov	Dec		
1	*Color	Hazen	< 5	< 5	< 5	< 5	--	IS:3025 (P-4) 1983
2	*Odor	--	Agreeable				--	IS:3025 (P-5) 1983
3	pH	--	7.63	7.61	7.59	7.63	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	0.1	0.1	0.1	0.1	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	210	204	190	184	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	27	26	23	22	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	< 4	< 4	< 4	< 4	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	790	780	750	742	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	188	185	178	172	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	640	620	610	580	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	194	192	190	188	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	38	34	33	27	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	108.7	106.2	105.7	102.1	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	4.5	4.4	4.2	4.0	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	26.78	26.99	27.19	27.49	60	By Calculation
16	Sodium Absorption Ratio	---	1.86	1.85	1.86	1.84	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-8.66	-8.35	-8.45	-7.97	2.5	By Calculation
18	Electrical Conductivity	μmhos/cm	1260	1240	1220	1190	2250	IS:3025 (P-14) 1984



For Shree Datta Shetkari Sahakari Sakhar Karkhana Ltd; Shirol



Managing Director



कोल्हापूर पाटबंधारे विभाग (उत्तर),
सिंचन भवन, ताराबाई पार्क कोल्हापूर पिन- ४१६००३



दूरध्वनी क्र. ०२३१-२६५४७३६ फैक्स- ०२३१-२६५४७३५ ई.मेल - eekidkopn@gmail.com
जा.क्र. कोपावि(उ) / बिगरसिचन/ ३५३६ /२०२१ दि. २८/०६/२०२१
प्रति,

प्रति,

मा. कार्यकारी संचालक,
श्री दत्त सहकारी साखर कारखाना, दत्तनगर शिरोळ,
ता. शिरोळ जि. कोल्हापुर पिन-४१६१२०

विषय : मूळ मंजूर बिगरसिचन पाण्याचा कोट्यापैकी मागणी करणेत आलेल्या वार्षिक कोटा आरक्षित करणेकामी सन २०२१-२०२२(दि.०१/०७/२०२१ पासून दि.३०/०६/२०२२) या एक वर्षाकरिता मंजुरी मिळणेबाबत.

संदर्भ:

- १) मुअ/का०-२/मुदका/७०१६/ ३५३९, दि. ८/८/२००३.
- २) शासन परिपत्रक क्र. बिपापु१००१/(७१३/२००१)सिंव्य(धो)/दिनांक ११/०३/२००३
- ३) शासन परिपत्रक क्र. पापव-२०१५/(प्र.क्र४००/२०१५)सिंव्य(महसूल)/दिनांक १५/१२/२०१५
- ४) शासन निर्णय क्र. पापव-२०१५/(प्रक्र ८८/२०१५)सिंव्य(महसूल) दि. २१/०४/२०१६
- ५) महाराष्ट्र जलसंपत्ती नियमन प्राधिकरण यांचा आदेश क्र.१/२०१८ दिनांक ११/०१/२०१८.
- ६) विभागीय कार्यालयाचे पत्र जा.क्र. कोपाविच(३) / बिगरसिचन/३३०५ दिनांक २४/०६/२०२१
- ७) आपले पत्र जा.क्र २२४० / सिव्हिल/इरिगेशन दिनांक २८/०६/२०२१

उपरोक्त संदर्भिय विषयांकित प्रकरणी आपणास राधानगरी प्रकल्पामधून पंचगंगा नदीवरील शिरोळ को.प.बंधार-यामधून_घरगुती प्रयोजनासाठी ०.१९९ द.ल.घ.मी व औद्योगिक कारणासाठी ०.२७७ द.ल.घ.मी असा एकून ०.४७६० द.ल.घ.मी इतका पाणी कोटा मंजूर आहे.

आपण केलेल्या विनंती अर्जानुसार आपला सन २०२१-२०२२ करिता दि. ०१/०७/२०२१ पासून दि. ३०/०६/२०२२ या एक वर्षाकरिता घरगुती प्रयोजनासाठी ०.१७० द.ल.घ.मी व औद्योगिक कारणासाठी ०.२१३ द.ल.घ.मी असा एकून ०.३८३ द.ल.घ.मी इतका पाणी कोटा आरक्षित/ कमी करणेकरिता वार्षिक करारनामा खालील अटीच्या अधिन राहन मंजर करणेत आला आहे.

- करारनाम्याचे नुतनीकरण करणेपुर्वी शासनाचे उपरोक्त संदर्भिय पत्रामधील सर्व अटी व शर्ती बंधनकारक राहतील तसेच त्यांचे काटेकोरपणे पालन होणे महत्वाचे आहे.
- महाराष्ट्र शासनामाफेत बिगर सिंचन पाणी वापराबाबत वेळोवेळी निर्गमित होणारे शासन निर्णय व मुळ मंजूर परवान्यातील अटी आपल्यावर बंधनकारक राहतील याची कृपया नोंद घ्यावी.
- आपल्या संस्थेस एक वर्षा करिता मंजूर करण्यात येणा-या **०.३८३ दलघमी वापरापेक्षा +/- १०%** पाणी वापर (अधिक / कमी) झाल्यास फरकाच्या वापरास दंडनीय दर लागू दराच्या दीडपटने आकारणी करणेत येईल याची नोंद घ्यावी.
- तसेच संदर्भ क्र.८ अन्वये कळविणेत आलेल्या सर्व अटींच्या अधिन राहून सदरचा वार्षिक करारनामा हा दिनांक १/०७/२०२१ ते ३०/०६/२०२२ पर्यंत मंजर करणेत येत आहे.

6

सोबतः वार्षिक करारनामा प्रत

सोबतः वार्षिक करारनामा प्रति

卷之三

प्रकृति: सहाय्यक अधिकारी

कार्यवाहीमात्री

कार्यकारी अभियंता

कोल्हापुर पाटबंधारे विभाग(उच्च)

कोल्हापुर



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:

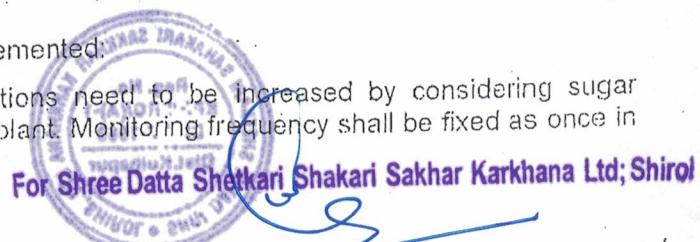
From the monitoring report submitted, it has been observed that no monitoring is being carried out in the upwind direction.

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 co-gen plant. Monitoring frequency shall be fixed as once in a month.

Managing Director



Managing Director

1/23

- ↳ 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
31/01/17
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: Shiroli, Kolhapur District, Maharashtra-416120
4. Guard File

A. Suresh Kumar
31/01/17
Suresh Kumar Adapa
Scientist 'D'



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-IA II(I) 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 th 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 2015-2017 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 (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.

For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shiro Kolhapur Date: 20/01/2018
Managing Director



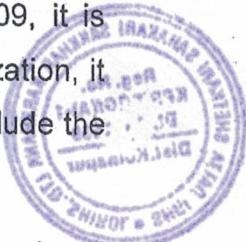
MINUTES OF THE ENVIRONMENTAL PUBLIC HEARING
HELD FOR
PROPOSED EXPANSION OF SUGAR CANE CRUSHING CAPACITY
FROM 7500 TCD TO 9000 TCD
IN RESPECT OF
M/S. SHREE DATTA SHETKARI SAHAKARI SAKHAR KARKHANA
LTD.,
AT: SHIROL, POST: DATTANAGAR, TAL: SHIROL, DIST:
KOLHAPUR (MAHARASHTRA STATE)

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 Gaikwad, Convenor
Sub Regional Officer, MPCB, Kolhapur.

First of all, Sou Indira Gaikwad, Sub Regional Officer, MPC Board, Kolhapur and Convenor 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

public in the vicinity of the proposed project in the process of environmental approval to such projects. Similarly, due to involvement of public in the vicinity in the process of environment approval, it helps in educating the public regarding environmental issues, keeping an eye on the consequences of the project and to suggest solutions thereon and therefore, conducting the public hearing is necessary.

Forest and Environment Department of the Government of Maharashtra has granted permission for conducting the Public Hearing vide certificate (TOR)(SEAC 122th Hearing) dated 24,25,26 February 2016. The Member Secretary M. P. C. B., Mumbai vide his order dated 03-11-2016 has declared that the Additional District Magistrate, Kolhapur shall be the Presiding Officer, Regional Officer, M. P. C. Board, Kolhapur shall be a Committee Member and Sub Regional Officer, M. P. C. B., Kolhapur shall be the Convener of the public hearing. Accordingly, notice of Public Hearing was published in local newspapers on 09-10-2016 i.e. in 'Daily Pudhari' and the 'Times of India'. Similarly, documents related to the project were made available in following offices:-

- 1 Collector Office, Kolhapur
- 2 District Industries Centre, Kolhapur
- 3 CEO, Zilla Parishad, Kolhapur
- 4 Environment Department, Mumbai
- 5 M. P. C. B. (head office), Mumbai.
- 6 Tahsildar Office, Shirol, Taluka Shirol.
- 7 Grampanchayat, Dharangutti.
- 8 Grampanchayat, Shirol
- 9 Grampanchayat, Agar
- 10 Grampanchayat, Arjunwad
- 11 Grampanchayat, Kondigre
- 12 B. D. O, Shirol.

M.P.C. Board has received written representations regarding the proposed project. 'Ankush', a Social Organisation, Mr Dastagir Bandar and Dr C. D. Patil have submitted written representation to Sub-Regional Office, M. P. C. B; Kolhapur. Also Shri V. Sunanda Reddy, Environmentalist, Telangana State has submitted suggestions regarding the proposed project on e-mail.

Thereafter, she requested the project proponent to give presentation about the proposed project and its environmental impact.

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 m³ water per day out of which 100 m³ utilized for domestic use and 800 m³ water used for distillery. Karkhana lifts all required water from Panchaganga river. Sugar factory recycles approx. 1500 m³ 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 (USDPCL) 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.

USDPCL has established a boiler of capacity 180 ton and 110 kg per cm² 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

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 m³ capacity per day. Currently, 324.25 m³ per day waste water is treated through ETP and after modernization the quantity will be around 332.33 m³/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 PM10, 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.

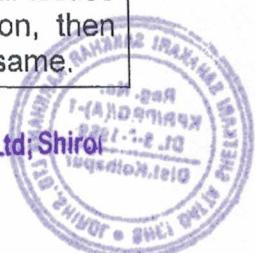
After above presentation, following discussion/question answer took place.

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 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. Villagers 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.



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



Managing Director

	<p>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.</p>
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Shri Datta Shetkari Shakhar Karkhana Ltd, Shiroli



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 Shakar Sakhar Karkhana Ltd; Shirol



Managing Director

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, Shirur, results show that water from borewells is well/borewell water. In

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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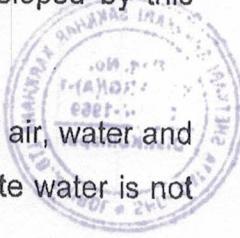
Environment Consultant of the Karkhana, Dr B. Subbarao submitted his explanation to above issues as follows:-

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. *For Shree Dattatraya Chakar of Shetkari Sakhar Karkhana Ltd, Shiroda* waste water is not



discharged into nullahs. 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 Sahakari Sakhar Karkhana Ltd; Shirol

Managing Director

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 staled edge knives	25
04	Cane Fibrizer	Modification b adding two more dice and by increasing no 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 th 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 th mill and replacement of chain by 200mm pitch, 80 T breaking load	25
10	Main Bagasse Carrier	Modification to suit new 6 th 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 th mill	25
Total-			910

For Shree Datta Shetkari Shakari Sakhar Karkhana Ltd; Shiroli

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 ² Heating surface Juice heater (4 Nos)	180
03.	400 m ² 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
	Total-	574

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

Steam-

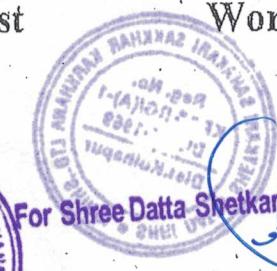
Steam requires for 375 TCH Cane Crushing is 135 T/Hr @ 36 % on cane which is supplied by existing setup of Co-Generation of Capacity 36 MW, having boiler capacity 180 TPH.

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

H. Sanyog
Works Manager



For Shree Datta Shetkari Sakhar Karkhana Ltd; Shri

Managing Director