



SHRI GURUDATT SUGARS LTD., Takaliwad

ADD.: Gat No. : 61 / A, Akiwat Takaliwadi Road, Takaliwadi Tal.- Shirol Dist - Kolhapur (MH) Pin Code : 416 1
PHONE : +91 231 2686086 | FAX : +91 231 2686000 | WEBSITE : www.sgsl.co.in | Email : gslsugars@gmail.com

SGSL/ 1138 /2018-2019

Date – March 12, 2019

To,
The Regional Officer,
Ministry of Environment, Forest & Climate Change,
Regional office (WCZ), Ground Floor, East Wing,
New Secretariat Building, Civil Lines, Nagpur.
Tel No. 0712 – 2531318
Email: moefregionalofficenagpur@gmail.com

Sub: Compliance Report of Environmental Clearance issued by MoEF & CC, New Delhi.

Ref: You're Letter No. J - 11011/41/2015-IA-II (I) Date - 20.03.2017.

Dear Sir,

With reference to the abovementioned subject and your reference cited above. Please find enclosed herewith Compliance Report of Environmental Clearance issued by MoEF & CC, New Delhi vide letter no. J - 11011/41/2015-IA-II (I) Date - 20.03.2017.

We do hope that you will find the above information satisfactory. However, if you require additional information /clarification in this regard, kindly write back, so that we shall submit the information at the earliest.

Thanking You

Yours Faithfully,

FOR, SHRI GURUDATT SUGARS LTD.,


PRESIDENT

Enclosed – Compliance Report

C.C to: 1. The Regional officer, MPC Board, Kolhapur.
2. The Sub - Regional officer, MPC Board, Kolhapur.

Recd
Ratil
15/03/2019
Z. Chera
P C Board
Kolhapur.

Shri Gurudatt Sugars Ltd.,
Gat No. 61/A, Akiwat - Takaliwadi Road , Takaliwadi - 416108, Taluka - Shirol, Dist -
Kolhapur, Maharashtra

Compliance of Conditions Stipulated in environmental clearance granted to expansion of Sugar Plant (From 4900 TCD to 6000 TCD) & Co-generation Power Plant (From 15 MW to 21 MW) by MoEF & CC, New Delhi vide letter No. J - 11011/41/2015-IA-II (I) Date - 20.03.2017

EC No -	J - 11011/41/2015-IA-II (I) Date - 20.03.2017	Mar-19
SR. NO.	EC Condition	Compliances
	A) Specific Condition	
1	Zero liquid Discharge System shall be ensured	We have full fledged disposal method carried out in a scientific manner on land for irrigation in available 50 Acres for crop irrigation.
2	Water requirement to be reduced at extent possible by using latest process methodology being used worldwide.	Ours is the first Sugar factory in Maharashtra, wherein, we run the entire industrial activity with treated and recycled condensates, which is accrued from cane and no fresh water is utilized, for sugar factory operation. We have installed Condensate Polishing Unit (C.P.U) for sugar factory excess condensate water treatment and recycled purpose. Annexure 1
3	Fly ash be generated shall be sent to nearby cement industry.	The measurity of fly ash is utilize of our press mud composting yard the remaining of the small quantity is we have sold ash to brick manufactures and farmers.
4	Green belt (10 m wide) of perenneal plant species like Neem, Seasam, Teak etc. to be developed around the plant perophery ensuring the 33% area of the plant as green area. The forest department may be consulted in this regard.	We have already planted 4356 Nos of tree as site.
5	Air emissiond from all point source to be controlled by latest technology instrument. The emissions shall conform to the limets imposed by Maharashtra Pollution Control Board (MPCB)	We have alrely installed air pollution control equipment as per consent stipulation.The efficncy futher increase bagasse drying mechanisum was installed.
6	Periodic soil and water sampling in nearby villages and water bodies to be done by the project authorities through 3rd part expert and report shall be submitted to the concerned Regional office of the Ministry.	The soil and water sampling in nearby villages carried out periodically. The report are enclosed as Annexure 2
7	RO plant of sufficient capacity to be installed in the nearby villages to ensure safe drinking water supply. Maintenance of the RO plant will be ownde by the project authorities.	The RO plant installed for drinking water purpose and benefits all nearby villages.

8	Health check up camps to be organized periodically in nearby villages.	The health check up camps carried out periodically.
9	A regular environmental manager having PG qualification in environmental sciences / environmental engineering to be appointed for looking after the environmental management practices in the plant.	We have already recruit Environmental Engineer having PG Qualification with full fledged division of Environmental Management, wherein, all our Environmental management Plants are monitored on daily basis, along with requisite analysis carried out in our laboratory by trained chemists.
10	Automatic/ online monitoring system (24*7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.	We have already installed and completed the connectivity to CPCB / MPCB server of online monitoring system of ETP outlet water parameter (Flow, PH, TSS, COD & BOD) & Boiler stack (SPM /TPM) . The continuous monitoring results of ETP outlet water parameter & boiler stack emission depict that we are achieving norms stipulated by MPCB on a continuous time basis. And also online monitoring data is uploaded in company website. The photo of instrument is attached as Annexure 3.
B) General Conditions:		
1	The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, State Government and any other statutory authority.	PA agreed to comply with
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alteration in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environment protection measures required, if any.	PA agreed to comply with
3	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentration are anticipated.	Complied. Ambient air quality monitoring is being carried out at three (03) location within the plant. PA submitted that the locations were decided in consultation with MPCB. As per the monitoring data, the ambient air quality levels found to be within prescribed limits.
4	The National ambient air quality emission standards issued by the ministry vide G.S.R. No. 826(E) dated 16th november, 2009 shall be followed.	Complied. Acoustic enclosures have been provided. Green belt has been developed around the plant area. As per the monitoring data, the noise levels found to be within stipulated limits. The copy is enclosed as Annexure 4.

5	The overall noise levels in and around the plant area 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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time)	Complied. Roof top harvesting has been provided for the sugar godowns. Two collection pits of capacities 2100 cu.m. and 1600 cu.m. have been provided for the storage of rain water.
6	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground and use the same water for the process activities of the project to conserve fresh water.	Raw material and finished product are solids. Major spillage of materials is not envisaged.
7	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examination for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Complied. Personnel protective equipment has been provided to workers. The report are enclosed as Annexure 5.
8	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the projet shall be implemented.	Wet scrubber with a stack of height 65 m has been provided. Effluent treatment plant has been provided. Treated dffluent is used in the seed farms of the industry also supplied to the agriculture fields of farmers of nearby villages upon prior request from farmers. Green belt has been provided. Environmental quality monitoring is being carried out. CSR works are being undertaken. Vermi composting is being carried out with the waste generated in the cane yard. Compost is being supplied to the farmers.
9	The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Complied.
10	The company shall undertake eco-development measures including community welfare measures in the peoject area for the overall improvement of the environmet.	Being complied. As per the etails provided, PA distributed 500nos trees to farmers of nearby villagers under eco-development measures.
11	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Complied. Environmental management cell has been established.
12	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and climate change as well as the State Government along with the implementation schedule for all the condition stipulated herein. The funds do earmarked for environment management / pollution control measures shall not be diverted	Complied. As per the details provided, PA earmarked an amount of 13.5 cores towards capital expenditure and Rs. 3.48 cores towards recurring expenditure for environmental protection measures.

	for any other purpose.	
13	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestion / representations, if any, were received while processing the proposals.	Copy of the environmental clearance submitted to Zilla Parishad, Kolhapur and Gram Panchayat, Takaliwadi on 27.03.2017, The copy is enclosed as Annexure 6 .
14	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including result of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF & CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Complied. However same has been uploaded to the company website.
15	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF & CC by e-mail.	Complied. Environment statement for the FY 2017-18 submitted to MPCB vide letter dated 10.04.2018; however the same was uploaded to the company website.
16	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB / Committee and may also be seen at Website of the Ministry at http://moef.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Advertisement regarding to grant of EC was made on 31.03.2017. The copy is enclosed as Annexure 7 .
17	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	PA agreed to comply with.

18	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	PA agreed to comply with.
19	The Ministry reserve the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	PA agreed to comply with.
20	The above conditions will be enforced, inter alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Transe-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	PA agreed to comply with.

Shri Gurudatt Sugars Ltd., Takaliwadi

ANNEXURE - 1

- 1) The increase in capacity of Sugarcane crushing from 4900 TCD to 6000 TCD is not an expansion in true sense and this is TO CATER FOR REQUIREMENT TO INCREASE CRUSHING BY 10-15% DUE TO CANE HARVESTING REQUIRED TO BE CARRIED OUT AS PER MATURITY, as otherwise there is sugar loss.
 - A) Modernization, **without increasing either resource consumption or pollutional load** is a constant endeavor and as a result, with Technological Advances carried out, we are able to ensure '**NO POLLUTIONAL LOAD INCREASE**' in terms of volume or concentration of effluents, both water and air due to the abovementioned measures. This is clearly depicted in Annexure I and II attached herewith. THAT THERE IS NO CHANGE IN ANY MACHINERY CAPACITY AND THE CAPACITY INCREASE IS ACHIEVED THROUGH THE TECHNOLOGY CHANGES MENTIONED ABOVE.
 - B) DUE TO MEASURES TAKEN FOR CONSERVATION OF RESOURCES, NO INCREASE IN WATER OR FUEL CONSUMPTION IS WARRANTED, THEREBY ACHIEVING ZERO DISCHARGE TECHNICALLY FOR THE EXPANSION MODE.

The salient points of our efforts in above direction are:

- i) Ours is the **first Sugar factory in Maharashtra**, wherein, we run the entire industrial activity with treated and recycled condensates, which is accrued from cane and **no fresh water is utilized**, for sugar factory operation. As given in Annexure I, the same condition prevails for additional capacity as well, wherein, we are not required to consume any raw water, and therefore, there is no effluent generation from the same.
 - ii) We also have installed Bagasse drying mechanism, with waste heat from flue gas, thus minimizing consumption of Bagasse for combustion, thereby effectively reducing the emissions at source itself. We have also taken various measures as given in Annexure II, which depict the semblance of fuel consumption and therefore there is no air emission increase in this respect.
- 2) We have provided a full fledged Effluent Treatment Plant and operating the same with due vigil. Analysis of the treatment efficiency is a routine and corrective measures are taken immediately.
 - 3) We have taken care that no untreated/ treated effluent from factory enters any water course and all the treated effluent is utilized on our own Land for Cane seed Plantation Irrigation, employing scientific practices.
 - 4) We have a full fledged division of Environmental Management, wherein, all our Environmental management Plants are monitored on daily basis, along with requisite analysis carried out in our laboratory by trained chemists. We also have installed 'Online Monitoring Systems for Water and Air Pollution Control System monitoring, as per stipulations in this regard.

The above measures have resulted in waste generation minimization, and it implies that there is 'zero increase in pollutional load', due to the measures taken above.

ANNEXURE I

WATER BUDGET FOR EXISTING AND PROPOSED CAPACITY AFTER MODERNISATION AT SHRI GURUDATT SUGARS LTD

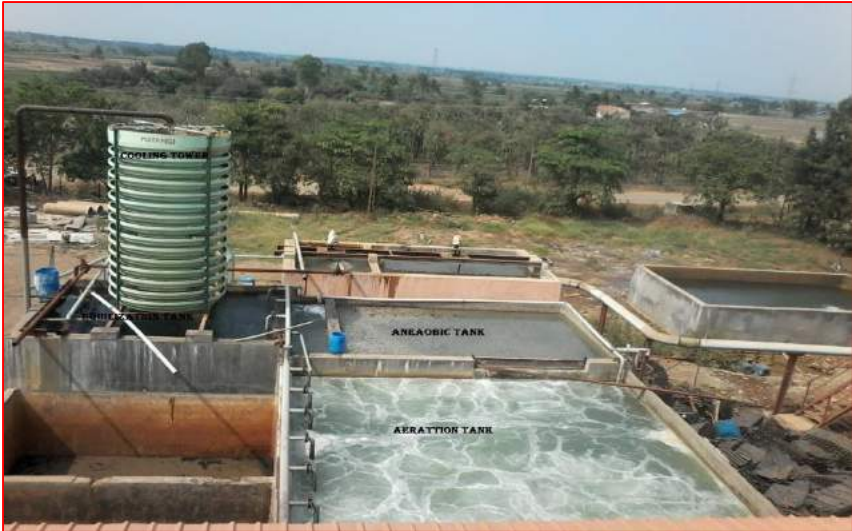
EXISTING 4900 TCD,15 MW					ADDITIONAL 1100 TCD,6 MW				
PURPOSE	INPUT	Purpose	LOSSES	EFFLUENT	PURPOSE	INPUT	Purpose	LOSSES	EFFLUENT
	Cum/d		Cum/d	Cum/d		Cum/d		Cum/d	Cum/d
Water in Cane	3430	Bagasse	686		Water in Cane	770	Bagasse	154	
Imbibition	1470	Mollasses	98		Imbibition	330	Mollasses	22	
Washings	470	Press mud	98	470	Washings (No New Machine)	0	Pressmud	22	0
		(Evaporation & Cooling Loss)	500				Evaporation & Cooling Loss)	100	
Total	5370		1382	470	Total	1100		298	
Condensate	3518	Imbibition	1470		Condensate	798	Imbibition	330	
		Other use	686				Other use	154	
		Washing	470				Washing	0	
Total Internal Use			2626		Total Internal Use			484	

Excess Condensate			892		Excess Condensate			314	
Treated Condensate		Utilization	Cum/d						
		Co-Gen Make-up	450				Co-Gen Make-up	0 (As Back Pressure Turbine added does not require cooling Tower)	
		Cooling Circuit Make up	120				Cooling Circuit Make up	24	
		Excess to Other Applications	322				Excess to Other Applications	296	

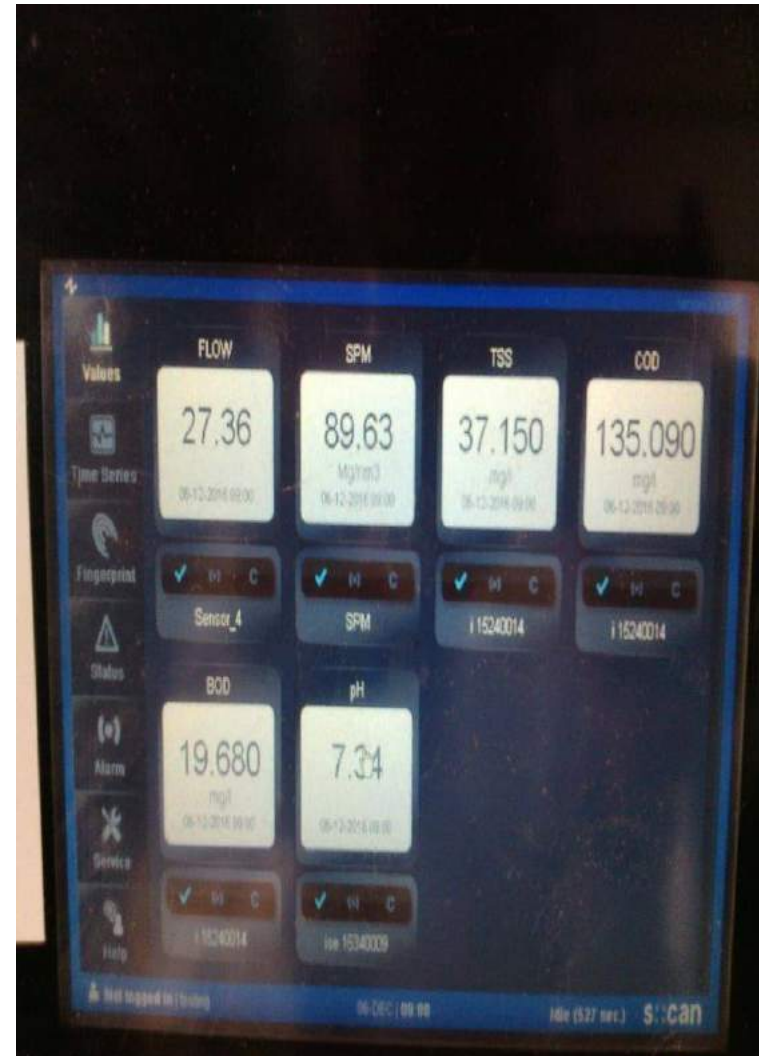
ANNEXURE II-EFFICIENCY INCREASE IN CO-GENERATION DUE TO IMPROVED TECHNOLOGY

PARAMETER	EARLIER CONDITION	IMPROVEMENT	IMPACT ON % EFFICIENCY INCREASE
BOILER TPH	70+40	70+40	Nil , Since No Change
Max.Working Steam Consumption	85	104	
Bagasse Consumption	36.95	36.49	Nil , Since No Change
I) STEAM TEMPERATURE INCREASE DUE TO SUPERHEATER MODIFICATION			
A) Steam temperature (°c)	420	500	Positive, as Power Generation Shall Improve For The Same Steam Quantity
B) Enthalpy	777.15	821.79	5.7%
II) BAGASSE MOISTURE REDUCTION DUE TO IMPROVED MILL SETTING			
A) Bagasse Moisture	50	47	
B) Enthalpy	2273.84	2411.84	6.1%
III) BAGASSE DRYING MECHANISM BASED ON FLUE GAS			
A) Bagasse Moisture	47	40	
B) Enthalpy	2411.84	2691.80	11.6%
TOTAL INCREASE IN EFFICIENCY			23.4%

Condensate Polishing Unit



Online Monitoring System at SGSL



WTR-F-001

CERTIFICATE OF ANALYSIS

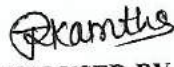
Report No : PAPL/SECK- 2027/09-18 **Date:** -10/09/2018
Job Ref. No. : ---
Sample Ref. No. : 240/SECK-88/09-18
Name of Industry : M/s Gurudatta sugar factory Ltd,
Address : At/post – Takaliwadi, Tal- Shirol, Dist – Kolhapur, Maharashtra.
Name of Sample : Ground Water Sample (Bedkyali) **Date of Collection** : 04/09/2018
Sample Quantity : 2000 ml **Date of Receiving** : 05/09/2018
Sample Collected by : M/s. Shrusti Envirocare.

Sr. No	Test Parameters	Result	Unit	Test Method
01	pH	6.5	-	IS – 3025 (Part 11)-1983 R-2012
02	Odour	Agreeable	-	IS – 3025 (Part 5)-1991 R-2009
03	Colour	< 5	Hazen	IS – 3025 (Part 4)-1984 R-2012
04	Turbidity	3.1	NTU	IS – 3025 (Part 10)-1991 R-2009
05	Electric Conductivity	376	µmhos/cm	IS – 3025 (Part 14)-1984 R-2002
06	Total Dissolved Solids	179	mg/lit	IS – 3025 (Part 16)-1984 R-2006
07	C.O.D.	28	mg/lit	IS-3025 (Part 58)-2006
08	B.O.D. -3 DAYS -27° C	08	mg/lit of O ₂	IS-3025 (Part 44)-1993 R-2003
09	Alkalinity as CaCO ₃	60	mg/lit	IS – 3025 (Part 51)2001 R-2006
10	Calcium as Ca	59	mg/lit	IS – 3025 (Part 40)1991R-2009
11	Magnesium as Mg	16.9	mg/lit	IS – 3025 (Part 46) 1994 R-2009
12	Total Hardness	85	mg/lit	IS – 3025 (Part 21)1983 R-2009
13	Chlorides As Cl	15	mg/lit	IS – 3025 (Part 32)-1988 R-2007
14	Sulphates As SO ₄	60	mg/lit	IS – 3025 (Part 24)-1986 R-2009
15	Sodium As Na	10	mg/lit	IS – 3025 (Part 45)-1993 R-2003
16	Fluoride as F	<0.1	mg/lit	IS – 3025 (Part 60)-2008
17	Iron as Fe	0.1	mg/lit	IS – 3025 (Part 53)-2003 R-2009

Calibration Details

Sr. No.	Equipment / Instrument	Last Calibration	Calibration valid up to	Certificate No.
01	pH Meter	Daily	Daily	-----
02	Water bath	07/06/2018	05/06/2019	AVI 181906061
03	Hot Air Oven. Model No. 103	07/06/2018	05/06/2019	AVI 181906058
04	COD Digestion Apparatus Model -2015M	17/11/2017	16/11/2018	SIPL/ TEMP/2015M/SE 077
05	BOD Incubator –HBOD – 06	09/11/2017	08/11/2018	HI/044/2017-18
06	Weighing balance (Make Shimadzu)	07/07/2018	06/01/2019	STS/CAL/1819/319

MoEF Notification S.O. 1174(E) Sr. No. 49 dated 1st May 2014 & valid upto 30/04/2019
ISO 9001:2008, Certificate No.11589/04/AN is valid upto 15/09/2018
OHSAS 18001:2007, Certificate No. OHS-1805 is valid upto 22/08/2019


ANALYSED BY


FOR PADMAJA AEROBIOLOGICALS PVT.LTD.

WTR-F-001

CERTIFICATE OF ANALYSIS

Report No : PAPL/EW-64/09-18 Date:- 21.09.2018
Sample Ref. No : 383/EW-64/09-18
Name of Industry : M/s. Shree Gurudatta Sugars Ltd.
Address : At/post-Takaliwadi, Tal-Shirol, Dist Kolhapur, Maharashtra.
Name of Sample : Soil Sample (Location Near ETP)
Sample Quantity : 1 Kg Date of Collection : 04.09.2018
Sample Collected by : Shrusti Envirocare, Kolhapur Date of Receiving : 12.09.2018

Sr. No.	Test Parameter	Result	Unit	Limit	Test Method
1.	pH(10% Solution)	8.4	---	---	SW-846-9045-C
2.	Loss On Ignition @550°C	8.0	%	---	APHA
3.	Loss on Drying @ 105°C	11.8	%	---	IS 2720 (P-2) 2005
4.	Sulphate as SO ₄	127	mg/kg	---	IS:3025(P-44)1993
5.	Chloride as Cl	158	mg/kg	---	IS:3025(P-32)1988
6.	Phosphate	<0.1	mg/kg	---	IS:3025(P-31)1988
7.	Total Kjeldahl Nitrogen	518	mg/kg	---	IS:3025(P-34)1988
8.	Nickel as Ni	74	mg/kg	---	SW-846-7520
9.	Cobalt as Co	27	mg/kg	---	SW-846-7200
10.	Copper as Cu	97	mg/kg	---	SW-846-7210
11.	Chromium as Cr	43.6	mg/kg	---	SW-846-7190
12.	Zinc as Zn	62	mg/kg	---	SW-846-7950
13.	Cadmium as Cd	<0.1	mg/kg	---	SW-846-7130

Remark: All above results except pH are on dry basis.


ANALYSED BY

Abbreviations: ---


FOR PADMAJA AEROBIOLOGICALS PVT. LTD.



Lab Approved by MoEF, New Delhi. (09-02-2017 to 08-02-2022)
 Lab NABL Accredited - Testing - Chemical Field & Proficiency Testing Provider.
 Lab OHSAS Approved

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
 • Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/3328A
M/s. M/s Shree Gurudatta Sugars Ltd., Takaliwadi Gat No.61/A, Akiwat Takaliwadi Road, Takaliwadi, Tal-Shirol, Dist -Kolhapur, Pin- 416108.	REPORT DATE	03/12/2018
	LAB REFERENCE NO	HS/LAB/WA/0791A
	DATE OF SAMPLING	28/11/2018
	DATE OF ANALYSIS	29/11/2018

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Well water sample	Shrusti Envirocare	---	Bhokare Well

RESULTS OF ANALYSIS

SR NO	DESCRIPTION	UNIT	RESULT	LIMITS IS 10500:2012	TEST METHOD
1	Odour	-	Agreeable	Agreeable	APHA 23 rd 2017, 2150 B
2	Colour	Hazen	1.10	< 5.00	APHA 23 rd 2017, 2120 C
3	pH	-	7.30	6.5 to 8.5	APHA 23 rd 2017, 4500-H ⁺ B
4	Electric Conductivity	µmhos/cm	278.00	Not Specified	APHA 23 rd 2017, 2510
5	Turbidity	NTU	0.80	< 1.00	APHA 23 rd 2017, 2130 B
6	Total Dissolved Solids	mg/lit	230.00	< 500.00	APHA 23 rd 2017, 2540 C
7	Chemical Oxygen Demand	mg/lit	10.00	Not Specified	APHA 23 rd 2017, 5220 C
8	Biochemical Oxygen Demand (27°C for 3 days)	mg/lit	4.00	Not Specified	APHA 23 rd 2017, 5210 B
9	Alkalinity as CaCO ₃	mg/lit	57.00	< 200.00	APHA 23 rd 2017, 2320 B
10	Total Hardness as CaCO ₃	mg/lit	104.00	< 200.00	APHA 23 rd 2017, 2340 C
11	Chlorides as Cl	mg/lit	38.00	< 250.00	APHA 23 rd 2017, 4500 Cl ⁻ B
12	Sulphates as SO ₄	mg/lit	22.00	< 200.00	APHA 23 rd 2017, 4500 SO ₄ E
13	Sodium as Na	mg/lit	8.00	Not Specified	APHA 23 rd 2017, 3500 Na B
14	Calcium as Ca	mg/lit	31.00	< 75.00	APHA 23 rd 2017, 3500 Ca B
15	Magnesium as Mg	mg/lit	14.00	< 30.00	APHA 23 rd 2017, 3500 Mg B
16	Iron as Fe	mg/lit	0.13	< 0.30	APHA 23 rd 2017, 3500 Fe B
17	Fluoride as F	mg/lit	0.25	< 1.00	APHA 23 rd 2017, 4500-F ⁻ D

For HORIZON SERVICES

Manoj Kulkarni
 (LAB INCHARGE)



DISCLAIMER :

- Sample will be retained only for 15 days.
- Above results indicate to the parameters mentioned only.
- Liability limited till issue of test reports only.
- The test report shall not be produced for any legal identity or advertised without permission of lab.
- The effect of results relate only to the item tested.



Lab Approved by MoEF, New Delhi. (09-02-2017 to 08-02-2022)
 Lab NABL Accredited - Testing - Chemical Field & Proficiency Testing Provider.
 Lab OHSAS Approved

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
 • Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/3328A
M/s. M/s Shree Gurudatta Sugars Ltd., Takaliwadi Gat No.61/A, Akiwat Takaliwadi Road, Takaliwadi, Tal-Shirol, Dist -Kolhapur, Pin- 416108.	REPORT DATE	03/12/2018
	LAB REFERENCE NO	HS/LAB/WA/0791A
	DATE OF SAMPLING	28/11/2018
	DATE OF ANALYSIS	29/11/2018

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Soil sample	Shrusti Envirocare	----	Hegade

RESULTS OF ANALYSIS

SR NO	DESCRIPTION	UNIT	RESULT
01	pH (10 % Extract)	-	7.60
02	Ammonia as NH ₄	mg/kg	NIL
03	Available Nitrogen as N	mg/kg	158.00
04	Available Phosphorus as P	mg/kg	1.65
05	Nickel as Ni	mg/kg	15.00
06	Chloride as Cl ⁻	mg/kg	224.00
07	Sulphate as SO ₄ ⁻⁻	mg/kg	2.85
08	Cadmium as Cd	mg/kg	2.00
09	Chromium as Cr	mg/kg	6.00
10	Copper as Cu	mg/kg	62.00
11	Zinc as Zn	mg/kg	39.00

For HORIZON SERVICES

M. A. G. D. K. A.
 (LAB INCHARGE)



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 Lab NABL Accredited - Testing - Chemical Field & Proficiency Testing Provider.
 Lab OHSAS Approved

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
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NOISE LEVEL MONITORING REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Address.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE
Date of Sampling.	: 06/12/2018

RESULTS

SR. NO.	TEST LOCATION	UNIT	DAY TIME	NIGHT TIME
			Readings	Readings
01	Near Main Gate	dB (A)	65.4	63.0
02	Near Boiler	dB (A)	72.9	69.2
03	Near ETP Area	dB (A)	67.7	66.2
04	Near Sugar Godown	dB (A)	66.0	63.4
05	Near Laboratory	dB (A)	65.6	64.0
06	Near Mill House	dB (A)	74.3	69.1
07	Near Pan Section	dB (A)	74.8	69.6
08	Near Sugar Plant	dB (A)	73.4	68.9
09	Near Weigh Bridge	dB (A)	72.5	68.7
10	Near Centrifugal	dB (A)	72.9	69.0

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	Digital Sound level meter Lutron -SL.4001 Q603286	Tech/CAL/2017/671/6	22/02/2018	21/02/2019

REMARK/OBSERVATIONS:

Limits:

90 dB(A), Given as per Maharashtra Factories Rules 1963 Schedule XXIV for 8 Hrs.

M. Mangalakar
 For HORIZON SERVICES



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ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/3661A
M/s. M/s Shree Gurudatta Sugars Ltd., Takaliwadi Gat No.61/A, Akiwat Takaliwadi Road, Takaliwadi, Tal-Shirol, Dist -Kolhapur, Pin- 416108.	REPORT DATE	14/01/2019
	LAB REFERENCE NO	HS/LAB/WA/972A
	DATE OF SAMPLING	09/01/2019
	DATE OF ANALYSIS	10/01/2019

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Well water sample	Shrusti Envirocare	---	Bhokare Well

RESULTS OF ANALYSIS

SR NO	DESCRIPTION	UNIT	RESULT	LIMITS IS 10500:2012	TEST METHOD
1	Odour	-	Agreeable	Agreeable	APHA 23 rd 2017, 2150 B
2	Colour	Hazen	2.00	< 5.00	APHA 23 rd 2017, 2120 C
3	pH	-	7.21	6.5 to 8.5	APHA 23 rd 2017, 4500-H*B
4	Electric Conductivity	µmhos/cm	206.00	Not Specified	APHA 23 rd 2017, 2510
5	Turbidity	NTU	0.80	< 1.00	APHA 23 rd 2017, 2130 B
6	Total Dissolved Solids	mg/lit	184.00	< 500.00	APHA 23 rd 2017, 2540 C
7	Chemical Oxygen Demand	mg/lit	9.80	Not Specified	APHA 23 rd 2017, 5220 C
8	Biochemical Oxygen Demand (27°C for 3 days)	mg/lit	4.00	Not Specified	APHA 23 rd 2017, 5210 B
9	Alkalinity as CaCO ₃	mg/lit	48.00	< 200.00	APHA 23 rd 2017, 2320 B
10	Total Hardness as CaCO ₃	mg/lit	82.00	< 200.00	APHA 23 rd 2017, 2340 C
11	Chlorides as Cl	mg/lit	49.00	< 250.00	APHA 23 rd 2017, 4500 Cl*B
12	Sulphates as SO ₄	mg/lit	36.00	< 200.00	APHA 23 rd 2017, 4500 SO ₄ E
13	Sodium as Na	mg/lit	8.00	Not Specified	APHA 23 rd 2017, 3500 Na B
14	Calcium as Ca	mg/lit	29.00	< 75.00	APHA 23 rd 2017, 3500 Ca B
15	Magnesium as Mg	mg/lit	18.00	< 30.00	APHA 23 rd 2017, 3500 Mg B
16	Iron as Fe	mg/lit	0.10	< 0.30	APHA 23 rd 2017, 3500 Fe B
17	Fluoride as F	mg/lit	0.75	< 1.00	APHA 23 rd 2017, 4500-F D

For HORIZON SERVICES

Manoj Kulkarni
 (LAB INCHARGE)



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NOISE LEVEL MONITORING REPORT

Report No.	: HS/REP/18-19/3643A
Dated	: 14/01/2019
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Site.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE
Date of Sampling.	: 09/01/2019

RESULTS

SR. NO.	TEST LOCATION	UNIT	DAY TIME	NIGHT TIME
			Readings	Readings
01	Near Main Gate	dB (A)	68.2	62.1
02	Near Boiler	dB (A)	73.1	68.8
03	Near ETP Area	dB (A)	66.9	64.2
04	Near Sugar Godown	dB (A)	65.7	63.9
05	Near Laboratory	dB (A)	64.2	63.0
06	Near Mill House	dB (A)	74.6	68.5
07	Near Pan Section	dB (A)	74.2	69.0
08	Near Sugar Plant	dB (A)	74.1	68.8
09	Near Weigh Bridge	dB (A)	71.3	67.9
10	Near Centrifugal	dB (A)	73.0	68.3

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	Digital Sound level meter Lutron -SL.4030 Q623367	Tech/CAL/2018/DB /1	22/02/2018	21/02/2019

Limits:

≤75 dB (A) For Day Time
≤70 dB (A) For Night Time

REMARK/OBSERVATIONS:

Noise level limits are given as per Noise Pollution (Regulation & Control) Rules 2010.

M. N. A. S. K. A.
For **HORIZON SERVICES**



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AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
e.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE

RESULTS

SR. NO.	TEST DESCRIPTION	UNIT	READINGS	NAAQS STANDARDS	METHOD OF SAMPLING AND ANALYSIS
01	DATE OF SAMPLING	DD/MM/YY	28/11/2018		
02	TEST LOCATION		Near Factory Main Gate		
03	TIME OF SAMPLING	Hrs	09:20		
04	TEMPERATURE (Max./Min)	Deg C	30/21		
05	RELATIVE HUMIDITY	% RH	44		
06	SAMPLING DURATION	Hrs	08		
07	PM ₁₀	µg/m ³	59.22	≤100	IS 5182(part 23),2006
08	PM _{2.5}	µg/m ³	29.31	≤60	CPCB Guidelines Volume - I Pg. No.15
09	SO ₂	µg/m ³	6.10	≤80	IS 5182(part 2),2001, RA 2006
10	NO ₂	µg/m ³	22.20	≤80	IS 5182(part 6),2006

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	PEM - ADS 2.5µ/10µ Sr. No. 4411	PICS/F/ADS/10-18/13	22/09/2018	21/09/2019
2	Respirable Dust Sampler; Sr. No 4	TECH/CAL/2018/1C/7	11/06/2018	10/06/2019

NAAQS - National Ambient Air Quality Standards (2009)

mn ag orka
 For HORIZON SERVICES



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AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Address.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE

RESULTS

SR. NO.	TEST DESCRIPTION	UNIT	READINGS	NAAQS STANDARDS	METHOD OF SAMPLING AND ANALYSIS
01	DATE OF SAMPLING	DD/MM/YY	28/11/2018		
02	TEST LOCATION		Near Weigh Bridge		
03	TIME OF SAMPLING	Hrs	09:30		
04	TEMPERATURE (Max./Min)	Deg C	30/21		
05	RELATIVE HUMIDITY	% RH	44		
06	SAMPLING DURATION	Hrs	08		
07	PM ₁₀	µg/m ³	80.56	≤100	IS 5182(part 23),2006
08	PM _{2.5}	µg/m ³	39.17	≤60	CPCB Guidelines Volume - I Pg. No.15
09	SO ₂	µg/m ³	9.80	≤80	IS 5182(part 2),2001, RA 2006
10	NO ₂	µg/m ³	28.51	≤80	IS 5182(part 6),2006

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	PEM - ADS 2.5µ/10µ Sr. No. 21914	PICS/F/ADS/03-18/04	07/03/2018	06/03/2019
2	Respirable Dust Sampler; Sr. No.2	TECH/CAL/2018/1C/3	11/06/2018	10/06/2019

NAAQS - National Ambient Air Quality Standards (2009)

M. N. Gaikwad
 For HORIZON SERVICES



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AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Site.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE

RESULTS

SR. NO.	TEST DESCRIPTION	UNIT	READINGS	NAAQS STANDARDS	METHOD OF SAMPLING AND ANALYSIS
01	DATE OF SAMPLING	DD/MM/YY	28/11/2018		
02	TEST LOCATION		Near ETP		
03	TIME OF SAMPLING	Hrs	09:40		
04	TEMPERATURE (Max./Min)	Deg C	30/21		
05	RELATIVE HUMIDITY	% RH	44		
06	SAMPLING DURATION	Hrs	08		
07	PM ₁₀	µg/m ³	59.94	≤100	IS 5182(part 23),2006
08	PM _{2.5}	µg/m ³	26.41	≤60	CPCB Guidelines Volume - I Pg. No.15
09	SO ₂	µg/m ³	7.30	≤80	IS 5182(part 2),2001, RA 2006
10	NO ₂	µg/m ³	25.40	≤80	IS 5182(part 6),2006

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	PEM - ADS 2.5µ/10µ Sr. No. 11912	PICS/F/ADS/12-17/11	16/12/2017	15/12/2018
2	Respirable Dust Sampler; Sr. No. 5	TECH/CAL/2017/1A/2	17/05/2018	16/05/2019

NAAQS - National Ambient Air Quality Standards (2009)

M. Nagarkar
 For HORIZON SERVICES



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STACK EMISSION MONITORING REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Site.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	Methods Used
01	DATE OF SAMPLING	DD/MM/YY	28/11/2018		
02	TEST LOCATION		Boiler 1 & 2 (Capacity-70 MT/Hr & 40 MT/Hr)		
03	TIME OF SAMPLING (00.00)	Hrs	10:00		
04	MATERIAL OF STACK		-		
05	STACK HEIGHT	Mtr	65		
06	TYPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg C	138		
08	VELOCITY	M/Sec	10.7		
09	DIAMETER OF STACK	M	3.43		
	GAS VOLUME	Nm ³ /Hr	257891.0		
11	PM	mg/Nm ³	73.16	As per Consent	IS 11255 (Part 1)
12	SO ₂	Kg/Day	Not Detected	As per Consent	IS 11255 (Part 2)

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	PEM-SMK 10B, Sr. No.7614	PICS/F/SMK/06-18/01	11/06/2018	10/06/2019

M. N. G. K. K.
 For HORIZON SERVICES



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ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/3328A
M/s. M/s Shree Gurudatta Sugars Ltd., Takaliwadi Gat No.61/A, Akiwat Takaliwadi Road, Takaliwadi, Tal-Shirol, Dist -Kolhapur, Pin- 416108.	REPORT DATE	03/12/2018
	LAB REFERENCE NO	HS/LAB/WA/0791A
	DATE OF SAMPLING	28/11/2018
	DATE OF ANALYSIS	29/11/2018

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Well water sample	Shrusti Envirocare	---	Bhokare Well

RESULTS OF ANALYSIS

SR NO	DESCRIPTION	UNIT	RESULT	LIMITS IS 10500:2012	TEST METHOD
1	Odour	-	Agreeable	Agreeable	APHA 23 rd 2017, 2150 B
2	Colour	Hazen	1.10	< 5.00	APHA 23 rd 2017, 2120 C
3	pH	-	7.30	6.5 to 8.5	APHA 23 rd 2017, 4500-H ⁺ B
4	Electric Conductivity	µmhos/cm	278.00	Not Specified	APHA 23 rd 2017, 2510
5	Turbidity	NTU	0.80	< 1.00	APHA 23 rd 2017, 2130 B
6	Total Dissolved Solids	mg/lit	230.00	< 500.00	APHA 23 rd 2017, 2540 C
7	Chemical Oxygen Demand	mg/lit	10.00	Not Specified	APHA 23 rd 2017, 5220 C
8	Biochemical Oxygen Demand (27°C for 3 days)	mg/lit	4.00	Not Specified	APHA 23 rd 2017, 5210 B
9	Alkalinity as CaCO ₃	mg/lit	57.00	< 200.00	APHA 23 rd 2017, 2320 B
10	Total Hardness as CaCO ₃	mg/lit	104.00	< 200.00	APHA 23 rd 2017, 2340 C
11	Chlorides as Cl	mg/lit	38.00	< 250.00	APHA 23 rd 2017, 4500 Cl ⁻ B
12	Sulphates as SO ₄	mg/lit	22.00	< 200.00	APHA 23 rd 2017, 4500 SO ₄ E
13	Sodium as Na	mg/lit	8.00	Not Specified	APHA 23 rd 2017, 3500 Na B
14	Calcium as Ca	mg/lit	31.00	< 75.00	APHA 23 rd 2017, 3500 Ca B
15	Magnesium as Mg	mg/lit	14.00	< 30.00	APHA 23 rd 2017, 3500 Mg B
16	Iron as Fe	mg/lit	0.13	< 0.30	APHA 23 rd 2017, 3500 Fe B
17	Fluoride as F	mg/lit	0.25	< 1.00	APHA 23 rd 2017, 4500-F ⁻ D

For HORIZON SERVICES

Manoj Kulkarni
 (LAB INCHARGE)



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ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/3661A
M/s. M/s Shree Gurudatta Sugars Ltd., Takaliwadi Gat No.61/A, Akiwat Takaliwadi Road, Takaliwadi, Tal-Shirol, Dist -Kolhapur, Pin- 416108.	REPORT DATE	14/01/2019
	LAB REFERENCE NO	HS/LAB/WA/972A
	DATE OF SAMPLING	09/01/2019
	DATE OF ANALYSIS	10/01/2019

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Well water sample	Shrusti Envirocare	---	Bhokare Well

RESULTS OF ANALYSIS

SR NO	DESCRIPTION	UNIT	RESULT	LIMITS IS 10500:2012	TEST METHOD
1	Odour	-	Agreeable	Agreeable	APHA 23 rd 2017, 2150 B
2	Colour	Hazen	2.00	< 5.00	APHA 23 rd 2017, 2120 C
3	pH	-	7.21	6.5 to 8.5	APHA 23 rd 2017, 4500-H*B
4	Electric Conductivity	µmhos/cm	206.00	Not Specified	APHA 23 rd 2017, 2510
5	Turbidity	NTU	0.80	< 1.00	APHA 23 rd 2017, 2130 B
6	Total Dissolved Solids	mg/lit	184.00	< 500.00	APHA 23 rd 2017, 2540 C
7	Chemical Oxygen Demand	mg/lit	9.80	Not Specified	APHA 23 rd 2017, 5220 C
8	Biochemical Oxygen Demand (27°C for 3 days)	mg/lit	4.00	Not Specified	APHA 23 rd 2017, 5210 B
9	Alkalinity as CaCO ₃	mg/lit	48.00	< 200.00	APHA 23 rd 2017, 2320 B
10	Total Hardness as CaCO ₃	mg/lit	82.00	< 200.00	APHA 23 rd 2017, 2340 C
11	Chlorides as Cl	mg/lit	49.00	< 250.00	APHA 23 rd 2017, 4500 Cl*B
12	Sulphates as SO ₄	mg/lit	36.00	< 200.00	APHA 23 rd 2017, 4500 SO ₄ E
13	Sodium as Na	mg/lit	8.00	Not Specified	APHA 23 rd 2017, 3500 Na B
14	Calcium as Ca	mg/lit	29.00	< 75.00	APHA 23 rd 2017, 3500 Ca B
15	Magnesium as Mg	mg/lit	18.00	< 30.00	APHA 23 rd 2017, 3500 Mg B
16	Iron as Fe	mg/lit	0.10	< 0.30	APHA 23 rd 2017, 3500 Fe B
17	Fluoride as F	mg/lit	0.75	< 1.00	APHA 23 rd 2017, 4500-F D

For HORIZON SERVICES

Manoj Kulkarni
 (LAB INCHARGE)



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ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/3328A
M/s. M/s Shree Gurudatta Sugars Ltd., Takaliwadi Gat No.61/A, Akiwat Takaliwadi Road, Takaliwadi, Tal-Shirol, Dist -Kolhapur, Pin- 416108.	REPORT DATE	03/12/2018
	LAB REFERENCE NO	HS/LAB/WA/0791A
	DATE OF SAMPLING	28/11/2018
	DATE OF ANALYSIS	29/11/2018

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Soil sample	Shrusti Envirocare	----	Hegade

RESULTS OF ANALYSIS

SR NO	DESCRIPTION	UNIT	RESULT
01	pH (10 % Extract)	-	7.60
02	Ammonia as NH ₄	mg/kg	NIL
03	Available Nitrogen as N	mg/kg	158.00
04	Available Phosphorus as P	mg/kg	1.65
05	Nickel as Ni	mg/kg	15.00
06	Chloride as Cl ⁻	mg/kg	224.00
07	Sulphate as SO ₄ ⁻⁻	mg/kg	2.85
08	Cadmium as Cd	mg/kg	2.00
09	Chromium as Cr	mg/kg	6.00
10	Copper as Cu	mg/kg	62.00
11	Zinc as Zn	mg/kg	39.00

For HORIZON SERVICES

M. A. G. D. K.
 (LAB INCHARGE)



DISCLAIMER :

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Lab Approved by MoEF, New Delhi. (09-02-2017 to 08-02-2022)
Lab NABL Accredited - Testing - Chemical Field & Proficiency Testing Provider.
Lab OHSAS Approved

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

ANALYSIS REPORT

F/LAB/04/01/17.12.2012

CLIENT'S NAME & ADDRESS	REPORT NO	HS/LAB/WA/3661A
M/s. M/s Shree Gurudatta Sugars Ltd., Takaliwadi Gat No.61/A, Akiwat Takaliwadi Road, Takaliwadi, Tal-Shirol, Dist -Kolhapur, Pin- 416108.	REPORT DATE	14/01/2019
	LAB REFERENCE NO	HS/LAB/WA/972A
	DATE OF SAMPLING	09/01/2019
	DATE OF ANALYSIS	10/01/2019

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Soil sample	Shrusti Envirocare	---	Hegade

RESULTS OF ANALYSIS

SR NO	DESCRIPTION	UNIT	RESULT
01	pH (10 % Extract)	-	7.33
02	Ammonia as NH ₄	mg/kg	1.10
03	Available Nitrogen as N	%	8.20
04	Available Phosphorus as P	mg/kg	13.20
05	Nickel as Ni	mg/kg	7.00
06	Chloride as Cl ⁻	mg/kg	224.00
07	Sulphate as SO ₄ ⁻⁻	mg/kg	16.20
08	Cadmium as Cd	mg/kg	1.89
09	Chromium as Cr	mg/kg	1.50
10	Copper as Cu	mg/kg	8.20
11	Zinc as Zn	mg/kg	10.00

For HORIZON SERVICES

Manojkumar
(LAB INCHARGE)



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"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
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NOISE LEVEL MONITORING REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Address.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE
Date of Sampling.	: 06/12/2018

RESULTS

SR. NO.	TEST LOCATION	UNIT	DAY TIME	NIGHT TIME
			Readings	Readings
01	Near Main Gate	dB (A)	65.4	63.0
02	Near Boiler	dB (A)	72.9	69.2
03	Near ETP Area	dB (A)	67.7	66.2
04	Near Sugar Godown	dB (A)	66.0	63.4
05	Near Laboratory	dB (A)	65.6	64.0
06	Near Mill House	dB (A)	74.3	69.1
07	Near Pan Section	dB (A)	74.8	69.6
08	Near Sugar Plant	dB (A)	73.4	68.9
09	Near Weigh Bridge	dB (A)	72.5	68.7
10	Near Centrifugal	dB (A)	72.9	69.0

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	Digital Sound level meter Lutron -SL.4001 Q603286	Tech/CAL/2017/671/6	22/02/2018	21/02/2019

REMARK/OBSERVATIONS:

Limits:

90 dB(A), Given as per Maharashtra Factories Rules 1963 Schedule XXIV for 8 Hrs.

M. Mangalakar
 For HORIZON SERVICES



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Lab Approved by MoEF, New Delhi. (09-02-2017 to 08-02-2022)
Lab NABL Accredited - Testing - Chemical Field & Proficiency Testing Provider.
Lab OHSAS Approved

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
• Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

NOISE LEVEL MONITORING REPORT

Report No.	: HS/REP/18-19/3643A
Dated	: 14/01/2019
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Site.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE
Date of Sampling.	: 09/01/2019

RESULTS

SR. NO.	TEST LOCATION	UNIT	DAY TIME	NIGHT TIME
			Readings	Readings
01	Near Main Gate	dB (A)	68.2	62.1
02	Near Boiler	dB (A)	73.1	68.8
03	Near ETP Area	dB (A)	66.9	64.2
04	Near Sugar Godown	dB (A)	65.7	63.9
05	Near Laboratory	dB (A)	64.2	63.0
06	Near Mill House	dB (A)	74.6	68.5
07	Near Pan Section	dB (A)	74.2	69.0
08	Near Sugar Plant	dB (A)	74.1	68.8
09	Near Weigh Bridge	dB (A)	71.3	67.9
10	Near Centrifugal	dB (A)	73.0	68.3

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	Digital Sound level meter Lutron -SL.4030 Q623367	Tech/CAL/2018/DB /1	22/02/2018	21/02/2019

Limits:

≤75 dB (A) For Day Time
≤70 dB (A) For Night Time

REMARK/OBSERVATIONS:

Noise level limits are given as per Noise Pollution (Regulation & Control) Rules 2010.

MN Agharkar
For HORIZON SERVICES



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Lab Approved by MoEF, New Delhi. (09-02-2017 to 08-02-2022)
 Lab NABL Accredited - Testing - Chemical Field & Proficiency Testing Provider.
 Lab OHSAS Approved

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
 • Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
e.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE

RESULTS

SR. NO.	TEST DESCRIPTION	UNIT	READINGS	NAAQS STANDARDS	METHOD OF SAMPLING AND ANALYSIS
01	DATE OF SAMPLING	DD/MM/YY	28/11/2018		
02	TEST LOCATION		Near Factory Main Gate		
03	TIME OF SAMPLING	Hrs	09:20		
04	TEMPERATURE (Max./Min)	Deg C	30/21		
05	RELATIVE HUMIDITY	% RH	44		
06	SAMPLING DURATION	Hrs	08		
07	PM ₁₀	µg/m ³	59.22	≤100	IS 5182(part 23),2006
08	PM _{2.5}	µg/m ³	29.31	≤60	CPCB Guidelines Volume - I Pg. No.15
09	SO ₂	µg/m ³	6.10	≤80	IS 5182(part 2),2001, RA 2006
10	NO ₂	µg/m ³	22.20	≤80	IS 5182(part 6),2006

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	PEM - ADS 2.5µ/10µ Sr. No. 4411	PICS/F/ADS/10-18/13	22/09/2018	21/09/2019
2	Respirable Dust Sampler, Sr. No 4	TECH/CAL/2018/1C/7	11/06/2018	10/06/2019

NAAQS - National Ambient Air Quality Standards (2009)

mn ag orka
 For HORIZON SERVICES



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Lab Approved by MoEF, New Delhi. (09-02-2017 to 08-02-2022)
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 Lab OHSAS Approved

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
 • Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Site.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE

RESULTS

SR. NO.	TEST DESCRIPTION	UNIT	READINGS	NAAQS STANDARDS	METHOD OF SAMPLING AND ANALYSIS
01	DATE OF SAMPLING	DD/MM/YY	28/11/2018		
02	TEST LOCATION		Near ETP		
03	TIME OF SAMPLING	Hrs	09:40		
04	TEMPERATURE (Max./Min)	Deg C	30/21		
05	RELATIVE HUMIDITY	% RH	44		
06	SAMPLING DURATION	Hrs	08		
07	PM ₁₀	µg/m ³	59.94	≤100	IS 5182(part 23),2006
08	PM _{2.5}	µg/m ³	26.41	≤60	CPCB Guidelines Volume - I Pg. No.15
09	SO ₂	µg/m ³	7.30	≤80	IS 5182(part 2),2001, RA 2006
10	NO ₂	µg/m ³	25.40	≤80	IS 5182(part 6),2006

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	PEM - ADS 2.5µ/10µ Sr. No. 11912	PICS/F/ADS/12-17/11	16/12/2017	15/12/2018
2	Respirable Dust Sampler; Sr. No. 5	TECH/CAL/2017/1A/2	17/05/2018	16/05/2019

NAAQS - National Ambient Air Quality Standards (2009)

M. Nagarkar
 For HORIZON SERVICES



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 Lab NABL Accredited - Testing - Chemical Field & Proficiency Testing Provider.
 Lab OHSAS Approved

"Shree", K 3/4, S. No. 10, Erandawane Housing Society, Opposite Deenanath Mangeshkar Hospital, Pune 411 004.
 • Tel.: 020 - 25460202, 25460203, 25460023, 25460033. • Email : kmn@hespl.co.in / md@hespl.co.in • www.hespl.co.in

STACK EMISSION MONITORING REPORT

Report No.	: HS/REP/18-19/3315A
Dated	: 03/12/2018
Client.	: M/s Shree Gurudatta Sugars Ltd., Takaliwadi
Site.	: GAT NO.61/A, AKIWAT TAKALIWADI ROAD, TAKALIWADI, TAL-SHIROL, DIST -KOLHAPUR, PIN- 416108.
Sample Collected by	: M/S. SHRUSTI ENVIROCARE

RESULTS OF ANALYSIS

SR. NO.	DESCRIPTION	UNIT	RESULT	LIMITS	Methods Used
01	DATE OF SAMPLING	DD/MM/YY	28/11/2018		
02	TEST LOCATION		Boiler 1 & 2 (Capacity-70 MT/Hr & 40 MT/Hr)		
03	TIME OF SAMPLING (00.00)	Hrs	10:00		
04	MATERIAL OF STACK		-		
05	STACK HEIGHT	Mtr	65		
06	TYPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg C	138		
08	VELOCITY	M/Sec	10.7		
09	DIAMETER OF STACK	M	3.43		
	GAS VOLUME	Nm ³ /Hr	257891.0		
11	PM	mg/Nm ³	73.16	As per Consent	IS 11255 (Part 1)
12	SO ₂	Kg/Day	Not Detected	As per Consent	IS 11255 (Part 2)

Calibrations details: -

Sr. No.	Instrument	Certificate No.	Last Calibrated on	Due Date
1	PEM-SMK 10B, Sr. No.7614	PICS/F/SMK/06-18/01	11/06/2018	10/06/2019

M. N. G. K. K.
 For HORIZON SERVICES



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Regd. No. 25-14367, CIN-UI5424PN2000PLC014367

An ISO 9001 : 2008 Certified Company

SHRI GURUDATT SUGARS LTD., Takaliwad

| ADD.: Gat No. : 61 / A, Akiwat Takaliwadi Road, Takaliwadi Tal.- Shirol Dist - Kolhapur (MH) Pin Code : 416 10
| PHONE : +91 231 2686086 | FAX : +91 231 2686000 | WEBSITE : www.sgsl.co.in | Email : gslsugars@gmail.com

SGSL/ENVI/ 498 /2017-2018

Date - 31/03/2017

To,
The Chief Executive Officer so,
Zilha Parishad Office,
Nagala Park, Kolhapur

Subject: Submission of Environmental Clearance Copy for Shri Gurudatt Sugars Ltd. Gat No. 61/A, Akiwat Takaliwadi Road, Takaliwadi, Tal. Shirol, Dist. Kolhapur, Maharashtra.

Ref: MoEF & CC Letter No.F. No. -J - 11011 / 41 / 2015 -IA - II (I) Dated 20.03.2017

Respected Sir,

With reference to above subject, we are submitting here with Environmental Clearance Copy of sugar manufacturing (from 4900 TCD to 6000 TCD, Co-generation capacity (15 MW to 21 MW) at Gat No. 61/A, Akiwat Takaliwadi Road, Tal. Shirol, Dist. Kolhapur, Maharashtra received from Ministry of Environment, Forest and Climate Change, New Delhi.

This is for your information please.


Thanking You.

Yours Faithfully

For, Shri Gurudatt Sugars Ltd.,


President

Copy -Enclosed above with copy of EC


8/8/2016
लेखनिक
मुख्य कार्यकारी अधिकारी
जिल्हा परिषद, कोल्हापूर.



SHRI GURUDATT SUGARS LTD., Takaliwadi

| ADD.: Gat No. : 61 / A, Akiwat Takaliwadi Road, Takaliwadi Tal.- Shirol Dist - Kolhapur (MH) Pin Code : 416 108
| PHONE : +91 231 2686086 | FAX : +91 231 2686000 | WEBSITE : www.sgsl.co.in | Email : gslsugars@gmail.com

SGSL/ENVI/ 293 /2017-2018

Date - 31/03/2017

To,
The Regional Officer,
Ministry of Environment, Forest and Climate Change,
Regional Office (WCZ), Ground Floor, East Wing,
New Secretariat Building Civil Lines,
Nagpur
Tel.No.0712-2531318
Email: moefregionalofficenagpur@gmail.com

Subject: Submission of Environmental Clearance Copy for Shri Gurudatt Sugars Ltd. Gat No. 61/A, Akiwat Takaliwadi Road Takaliwadi, Tal. Shirol, Dist. Kolhapur, Maharashtra.

Ref : MoEF & CC Letter No.F. No. -J - 11011 / 41 / 2015 -IA - II (I) Dated 20.03.2017

Respected Sir,

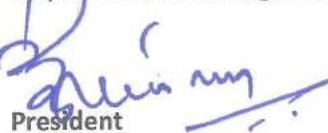
With reference to above subject, we are submitting here with Environmental Clearance Copy of sugar manufacturing (from 4900 TCD to 6000 TCD, Co-generation capacity (15 MW to 21 MW) at Gat No. 61/A, Akiwat Takaliwadi Road, Tal. Shirol, Dist. Kolhapur, Maharashtra received from Ministry of Environment, Forest and Climate Change, New Delhi.

This is for your information please.

Thanking You.

Yours Faithfully

For, Shri Gurudatt Sugars Ltd.,


President



Copy -Enclosed above with copy of EC News display on local news paper .

- CC - 1. The Regional Officer, MPC Board, Kolhapur.
2. The Sub Regional Officer, MPC Board, Kolhapur

सहजात प्रमाणपत्र व स्मृती चिन्ह पान ४ वर
News dt. 31/03/2017

जाहीर नोटीस

श्री गुरुदत्त शुगर्स लिमिटेड टाकळीवाडी पर्यावरण विषयक अनुमती

श्री गुरुदत्त शुगर्स लिमिटेड, गट नं.६९/अ,
अकिवाट टाकळीवाडी-रोड, टाकळीवाडी, ता.शिरोळ,
जि.कोल्हापूर पिन नं.४९६९०८ तर्फे कळविणेत येते
की, आमच्या कारखान्यामध्ये गाळप क्षमता 4900 TCD
ते 6000 TCD व सहविजनिर्मिती प्रकल्प 15MW ते 21
MW वाढीव प्रकल्पास भारत सरकारचे पर्यावरण,
वनविभाग व हवामान बदल, मंत्रालय, नवी दिल्ली कडील
पत्र संदर्भ F. No. J-11011/41/2015-IA-II (I) दिनांक
२०/३/२०१७ ने विस्तारीकरणास अनुमती मिळालेली
आहे.

श्री. माधवराव भगवानराव घाटगे
चेअरमन व कार्यकारी संचालक
श्री गुरुदत्त शुगर्स लिमिटेड, टाकळीवाडी

बंधुता पेपर

PUBLIC NOTICE

To whomsoever,
it may concern

This is to inform to the public that Shri Gurudatt Sugars Ltd., Gat 61/A, Akiwat- Takaliwadi Road, Takaliwadi, Tal. Shirol, Dist. Kolhapur- 416108. Maharashtra has been granted Environmental Clearance for their proposed expansion of sugar plant 4900 TCD to 6000 TCD and Co-generation 15 MW to 21 MW vide letter No. F. No. J-11011/ 47/ 2015- [A-II(I), Dt. 20/03/2017.

The Copy of same can be viewed at website of ministry of Environment and forest and climate change of <http://moef.nic.in>

-Shri Madhavrao B. Ghatge
Chairman &
Managing Director

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Shri. Bhagawanrao G. Ghatge
Founder
Shri. Madhavrao B. Ghatge
Chairman & Managing Director

SHRI GURUDATT SUGARS LIMITED

Gat No.61, Akiwat-Takaliwadi Road, Near Balumama Mandir,
TAKALIWADI - 416 108 Tal.: Shirol, Dist.:Kolhapur (Maharashtra State)
Reg. No. 25-14367, Tele Fax : (02322) 241577, 241877, 241977
Ph. (0231) 2686086 Fax No. (0231) 2686000 E-mail : gslsugars@gmail.com



Ref. No. एकजीशुस/शिरोळ/149/2017

Date : 26/03/2017

प्रति,
मा.सरपंच / ग्रामसेवक
मु.पो. टाकळीवाडी ता. शिरोळ
जि. कोल्हापूर

विषय :- ना हरकत दाखला मिळणेबाबत ..

महोदय

आमचे श्री गुरुदत्त शुगर्स लि.टाकळीवाडी या कारखान्याच्या सध्या असलेल्या ४९०० मे.टन प्रतिदिन गाळप क्षमता व १५ मेगावॅट विजनिर्मिती प्रकल्पाची क्षमता विस्तारीकरण प्रतिदिन ६००० मे.टन उच्च गाळप व २१ मेगावॅट विजनिर्मिती करणेस central Pollution control Board ,Delhi.यांचेकडून दि.२०/०३/२०१७ च्या पत्राने मान्यता मिळाली आहे.

तरी सदरच्या वाढीव गाळप क्षमता व विजनिर्मिती प्रकल्पाचे विस्तारीकरणास आपल्या ग्रामपंचायतीचा ना हरकत दाखला मिळावा हि विनंती

सोबत :- CPCB चे मंजूरीचे पत्र.

आपला विश्वासू

प्रेसीडेंट
श्री गुरुदत्त शुगर्स लि.टाकळीवाडी.

Received
26/3/2017
ग्रामसेवक,
ग्रामपंचायत टाकळीवाडी,
ता. शिरोळ, जि. कोल्हापूर.

[See rule 18(7) and Sched

(In respect of persons em

Name of Certifying Surgeon :

DR. ARVIND A. MANE

M.B.B.S., D.P.H.A.F.I.H. (Mumbai)

Certifying Surgeon For Factories

Kolhapur District

Under Govt. of Maharashtra Factories Rule

Serial No.	Works No.	Name of worker	Sex	Age (last birth-day)	Date of employment of present work	Date of leaving or transfer to other work	Reas lea Tran disc
1	2	3	4	5	6	7	
1		Sanjay Y. Kumbhar	M	36.			
2		Chandrakant D. Patil	M	45			
3.		Salina A. Sandi	F	43.			
4.		Mahaveer J. Narde	M	41			
5.		Suresh K. Yadav	M	35.			
6.		Sambhaji S. Patil	M	59.			
7.		Rama A. Zende	M	33.			
8.		Satish R. Kumbhar	M	29.			
9.		Shivaji D. Tavandkar	M	51.			
10.		Cejanan M. Latwade	M	35			
11.		Vijaykumar B. Patil	M	32.			
12		Santosh S. Ghatage	M	31.			
13		Deepak S. Shinde	M	36.			
14		Dilip S. Patil	M	53.			
15		Namdev D. Patil	M	39			
16.		Santosh B. Samdole	M	30			
17.		Nilesh V. Yadav	M	44.			
18		Preshant P. Jagdale	M	44			
19		Pundlik M. Godhade	M	63			
20		Vilas R. Jagtap	M	44.			
21		Chandrakant Y. Patil	M	41			
22		Amol A. Shinde	M	29			
23		Subas D. Magdum	M	28			
24		Sandeep S. Magdum	M	34.			
25		Virendra V. Patil	M	38			
26		Ajit B. Murgunde	M	36.			

(In respect of persons emp

Name of Certifying Surgeon :

DR. ARVIND A. MANE

M.B.B.S., D.P.H., A.F.I.H. (Mumbai)

Certifying Surgeon For Factories

Kolhapur District

Under Govt. of Maharashtra Factories Rule

Serial No.	Works No.	Name of worker	Sex	Age (last birth-day)	Date of employment of present work	Date of leaving or transfer to other work	Reas lea Tran disc
1	2	3	4	5	6	7	
29		Dilip N. Malgare	M	52			
30		Bhubali B. Patil	M	35			
31		Rajendra S. Ghadage	M	36			
32		Sanjay M. Magdum	M	35			
33		Sukumar A. Patil	M	35			
34		Avinash J. Bastwade	M	35			
35		Shiniwas V. Gondkar	M	32			
36		Raju B. Patil	M	40			
37		Vijay S. Powar	M	34			
38		Yogesh G. Kamble	M	27			
39		Pradip S. Sawant	M	31			
40		Sarjeraso A. Jagtap	M	48			
41		Vithal A. Gavade	M	33			
42		Vijay A. Khot	M	29			
43		Anant S. Pattankude	M	40			
44		Sagar V. Bhojane	M	34			
45		Pravin S. Patil	M	30			
46		Aalam S. Patel	M	52			
47		Vijay R. Bokare	M	48			
48		Sagar B. Mali	M	29			
49		Sambhaji B. Desai	M	56			
50		Kumar A. Sutar	M	36			
51		Netaji N. Chavan	M	36			
52		Siddhappa N. Pigare	M	48			
53		Raju B. Gavade	M	31			
54		Santosh L. Tali	M	30			

Name of Certifying Surgeon :

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M.B.B.S., D.P.H. & F.I.H. (Mumbai)

Certifying Surgeon for factories

Kolhapur District

Under Govt. of Maharashtra Factories Rule

Serial No.	Works No.	Name of worker	Sex	Age (last birth-day)	Date of employment of present work	Date of leaving or transfer to other work
1	2	3	4	5	6	7
57		Bajirao S. Tikode	M	51		
58		Faijahamad R. Mullo	M	47		
59		Tukaram B. Patil	M	39		
60		Suresh S. Adarsh	M	33.		
61		shamato N. Patil	M	54		
62		Babaso V. Inamdar	M	45		
63		Jingonda B. Patil	M	35		
64		Vinod A. Patil	M	35		
65		Deepak D. Mane	M	46.		
66		Pandurang B. Bhalawade	M	52		
67		Rajendra B. Geavode	M	30		
68		Bandu N. Shinde	M	32.		
69		Vilas R. Baje	M	41		
70		Rakesh R. Magdum	M	26.		
71		Suresh K. Desai	M	32.		
72		kumar M. Sutar	M	40.		
73		Babaso D. Patil	M	36.		
74		Vinod D. Kamble	M	33.		
75		Krishndev K. Mane	M	39		
76		Sandeep M. Gaikwad	M	30		
77		Nilesh M. Jadhav	M	36.		
78		Santosh A. Awati	M	36.		
79		Madhavrao R. Shinde	M	45		
80		Sunil S. Patil	M	38		
81		Amol A. Mandane	M	33.		
82		Udaykumar D. Mahind	M	41		
83		Mazuti T. Wanve	M	47.		

Name of Certifying Surgeon :

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M.B.B.S., D.P.H.A.F.I.H. (Mumbai)

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Kolhapur District

Under Govt. of Maharashtra Factories Rule

Serial No.	Works No.	Name of worker	Sex	Age (last birth-day)	Date of employment of present work	Date of leaving or transfer to other work
1	2	3	4	5	6	7
85		Chiridhat B. Shahstrabudhe	M	48		
86		Anil S. Kamble	M	40.		
87		Ajit A. Chougule	M	40.		
88		Mandak A. Nadat	M	43.		
89		Digambar A. Kudache	M	29.		
90		Prashant D. Pipale	M	27		
91		Swapnil P. Kotkar	M	30.		
92		Vithhal G. Nirmale	M	33.		
93		Nitin S. Shinde	M	32.		
94		Vinod S. Desai	M	31.		
95		Ramish K. Kamble	M	30.		
96		Lingappa K. Bandgare	M	35		
97		Amal K. Geibua	M	30		
98		Rajkumar R. Bagi	M	36.		
99		Shirdhat A. Sutar	M	37.		
100		Ajit D. Nirmale	M	31.		
101		Sagar S. Jugale	M	30		
102		Riyaj G. Sanadi	M	34.		
103		Pandurang R. Nandiwale	M	36.		
104		Rajendra S. Jadhav	M	43.		
105		Sandeep D. Sutar	M	28		
106		Bajirao I. Shedbale	M	47.		
107		Popat M. Khot	M	37.		
108		Suresh K. Ambi	M	42		
109		Anil S. Mane	M	34.		
110		Bajrang I. Kali	M	33.		
111		Deepak N. Sankpal	M	31		

(In respect of p

Name of Certifying Surgeon :

DR. ARVIND A. MANE

M.B.B.S., D.P.H.A.F.I.H. (Mumbai)

Certifying Surgeon For Factories

Kolhapur District

Under Govt. of Maharashtra Factories Rule

Serial No.	Works No.	Name of worker	Sex	Age (last birth-day)	Date of employment of present work	Date of leaving transfer to other work
1	2	3	4	5	6	7
113		P. Datta Roy	M	57.		
114		Ashok V. Jadhav	M	52.		
115		Somnath M. Kumbhar	M	33.		
116		Pandurang H. Bhoite	M	45.		
117		Madhusudam M. Morade	M	33.		
118		Aydhut D. Koli	M	26.		
119		Shankar S. Shinde	M	37.		
120		Sandip T. Mane	M	34.		
121		Chandrakant B. Birange	M	38.		
122		Shivaji G. Takale	M	36.		
123		Santosh A. Patil	M	31.		
124		Suresh N. Maske	M	38.		
125		Ravashob R. Kote	M	38.		
126		Akash G. Magdum	M	41.		
127		Indrajeet R. Sankpal	M	28.		
128		Lokesh S. Eksambe	M	35.		
129		Makbul S. Desai	M	40.		
130		Bhupal V. Bakale	M	39.		
131		Anil V. Herwade	M	34.		
132		Shivaji D. Pawar	M	43.		
133		Vadhbhav V. Patil	M	41.		
134		Sandeep D. Bagade	M	33.		
135		Mahesh R. Patil	M	36.		
136		Vikas M. Patil	M	40.		
137		Tejanand B. Desai	M	33.		
138		Dilip P. Patil	M	51.		
139		Vijay V. Mane	M	42.		



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2017

Company Information

Company Name

Shri Gurudatt Sugars Ltd.,

Application UAN number

77607000

Address

Gat No. 61/A, Akiwat Takaliwadi Road, Takaliwadi.

Plot no

Gat No. 61/A

Taluka

Shirol

Village

Takaliwadi

Capital Investment (In lakhs)

228.22

Scale

L.S.I.

City

Takaliwadi

Pincode

416108

Person Name

Mr. Rahul Madhavrao Ghatage

Designation

Executive Directors

Telephone Number

02312686086

Fax Number

02312686000

Email

gslsugars.env@gmail.com

Region

SRO-Kolhapur

Industry Category

Red

Industry Type

R12 Sugar (excluding Khandsari)

Last Environmental statement submitted online

yes

Consent Number

BO/CAC CELL /UAN No. 000001616 &
0000019783/ R/CAC- 1804000889

Consent Issue Date

19.04.2018

Consent Valid Upto

31.07.2019

Product Information

Product Name

Molasses

Consent Quantity

87816

Actual Quantity

29906.530

UOM

MT/A

Sugar

259200

102569

MT/A

Bagasse

1008480

211018

MT/A

Electricity

181440

70827794

Mwh

By-product Information

By Product Name

Press Mud

Consent Quantity

87816

Actual Quantity

25742.920

UOM

MT/A

1) Water Consumption in m3/day

Water Consumption for

Process

Consent Quantity in m3/day

350

Actual Quantity in m3/day

332

Cooling

83

72

Domestic

25

23

All others

0

0

Total

458

427

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
Daily Quantity of Trade Effluent from the factory	518	330	CMD
Daily Quantity of Sewage Effluent From the Factory	48	32	CMD
Daily Quantity of Treated Effluent	0	330	CMD

2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)

Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
Electricity	0.78	0.76	
Sugar	1.01	1.01	

3) Raw Material Consumption (Consumption of raw material per unit of product)

Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Sugar Cane	526983.2	768984.373	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Bagasse	418655	211018	MT/A

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)

[A] Water

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
PH	15.70	0	0	0	0
COD	33.40	0	0	0	0
BOD	12.35	0	0	0	0
Suspended Solids	11.48	0	0	0	0

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day)	Concentration of Pollutants discharged(Mg/NM3)	Percentage of variation from prescribed standards with reasons	Standard	Reason
	Quantity	Concentration	%variation		
Total Particulate Matter	481	72	0	0	0

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.2 Wastes/residue containing oil	0.54	0.54	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.2 Wastes/residue containing oil	2.60	2.59	MT/A

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Boiler Ash	7632	6330.54	MT/A
Sludge from Waste Water Treatment	3.8	5.1	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Boiler Ash	0	0	MT/A
Sludge from Waste Water Treatment	0	0	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.2 Wastes/residue containing oil	0.18	0.18	MT/A

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.2 Wastes/residue containing oil	0.18	MT/A	0.18

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Boiler Ash	6330.54	MT/A	6330.54
Sludge From Waste Water Treatment Plant	5.1	MT/A	5.1
Sludge From Waste Water Treatment Plant	0	MT/A	0

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
The 100% treated water from E.T.P is recycled for land irrigation.	72	2452	540	4.05	1800000	135000

Additional measures/investment proposal for environmental protection abatement of pollution, prevention of pollution.

[A] Investment made during the period of Environmental Statement

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Good House keeping kept in a mfg plant as well as ETP massive tree plantation done on available land	Tree Plantation (Quantity 3054 Nos)	30054

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
Good House keeping kept in a mfg plant as well as ETP massive tree plantation done on available land	Tree Plantation (Quantity 500 Nos)	7500

Any other particulars in respect of environmental protection and abatement of pollution.

Particulars

Increase the green coverage by developing lawn and tree plantation. Deployed trained ETP operators. As per CREP norms factory had provided 15 days storage tank for treated effluent. Tank made in RCC. We have also provide Condensate Polishing Unit (C.P.U) plant with cooling tower for sugar factory excess condensate water reuse and recycle purpose. Also, we have installed online monitoring system for ETP outlet (PH, COD, BOD & SS) and Boiler stack (Total Particulate Matter) and also connect to CPC

Name & Designation

Somnath M Kumbhar Enviromental Engineer

F. No. J-11011/41/2015-IA-II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Aliganj, Jor Bagh Road,
New Delhi -110 003

Telefax: 011-24695365
E-mail: yogendra78@nic.in

Dated: 20th March, 2017

To,

The Chief Executive Officer
M/s Shri Gurudatt Sugars Limited
Gat No.61/A, Akiwat - Takaliwadi Road
Takaliwadi, Taluka Shirol
District - Kolhapur - 416 108
Maharashtra

Sub: Expansion of Sugar Plant (4900 TCD to 6000 TCD) and Co-generation Power Plant (15 MW to 21 MW) by M/s Shri Gurudatt Sugars Limited at Gat No.61/A, Akiwat-Takaliwadi Road, Takaliwadi, Taluka Shirol, District - Kolhapur, Maharashtra - Environmental Clearance - reg.

Ref: Online Proposal No. IA/MH/IND2/59911/2014 dated 22nd October, 2016.

Sir,

This has reference to your online proposal no. IA/MH/IND2/59911/2014 dated 22nd October, 2016, along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report with public hearing report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is Expansion of Sugar Plant (4900 TCD to 6000 TCD) and Co-generation Power Plant (15 MW to 21 MW) by M/s Shri Gurudatt Sugars Limited at Gat No.61/A, Akiwat-Takaliwadi Road, Takaliwadi, Taluka Shirol, District-Kolhapur, Maharashtra. As informed and as per the documents submitted by the Project Proponent (PP), no additional land is required as the project is proposed in the premises of sugar plant. The land area is 55 Acres. Area for green belt is 15 Acres. The total cost of the project is Rs. 86.34 crores. Raw Material is Sugarcane and Bagasse. No Protected area/Eco-sensitive area/Reserve forests are reported to be located within 10 km area of the project site. Krishna River (3 km), Panchganga River (5 km), and Dudhganga River (7 Km) are located within 10 km radius of the project site. Karnataka State is located within 4 km from the project site. The project thus falls in the interstate boundary region of Karnataka and Maharashtra. The plant will have the following configuration and production capacity:



Units	Existing Capacity	Proposed Capacity	Total Capacity after expansion	Working days
Sugar Plant	4900 TCD	1100 TCD	6000 TCD	160
Cogeneration Plant	15 MW	6 MW	21 MW	160+124

3. All Sugar Industry (≥ 5000 TCD cane crushing capacity) are listed at Sl. No. 5(j) of Schedule of EIA Notification under Category 'B'. However, considering the general condition that the project is located at distance of 4 km from the interstate boundary of Karnataka State, the project is considered under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

4. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 36th meeting held during 16th- 17th March, 2015 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 18th May, 2015.

5. The project proposal was considered by the Expert Appraisal Committee (Industry -2) in its 17th meeting held during 26th - 29th December, 2016. The Project Proponent and the accredited consultant M/s SD Engineering Services Pvt. Ltd, Aurangabad, gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per Terms of References (TORs) awarded in the 36th meeting of the EAC held during 16th - 17th March, 2015.

6. The State Pollution Control Board, Maharashtra has issued CTE vide letter no. 1.0/BO/CAC-CELL/EIC No. KP-15740-14/EIC. 4729 dated 27/04/2015 and CTO vide letter no. 1.0/BO/CAC CELL/EIC-KP-17292-15/ O&R/CAC-418 dated 8/10/2016. The existing unit has been operating with Consent to Operate from the State Pollution Control Board. Consent of Industry was valid up to 31.07.2016. The PP has informed the EAC that the application for renewal is submitted and same is under consideration of the SPCB which will be issued under auto-renewal policy of State Government.

7. Public Hearing for the proposed project has been conducted by the Maharashtra State Pollution Control Board 24.08.2016. The EAC has deliberated upon the issues raised during the public hearing. The concerns were raised regarding employment opportunities, pollution due to waste water discharge from plant, etc. The EAC noted that the issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.

8. The Project Proponent has informed the EAC that the ambient air quality monitoring was carried out at 9 locations during October, 2015- December, 2015 and submitted baseline data indicates that ranges of concentrations of PM₁₀ (25 $\mu\text{g}/\text{m}^3$ to 47.8 $\mu\text{g}/\text{m}^3$), PM_{2.5} (7.5 $\mu\text{g}/\text{m}^3$ to 18.5 $\mu\text{g}/\text{m}^3$), SO₂ (7.1 $\mu\text{g}/\text{m}^3$ to 9.2 $\mu\text{g}/\text{m}^3$), CO (0.09 $\mu\text{g}/\text{m}^3$ -0.16 $\mu\text{g}/\text{m}^3$) and NO_x (8.6 $\mu\text{g}/\text{m}^3$ to 11.1 $\mu\text{g}/\text{m}^3$) respectively.

9. The total requirement of water for sugar and cogeneration is 1405.25 m³/day for process, cooling, boiler and domestic purpose. Fresh water

Permission has been obtained from the concerned authority. Balance water shall be met through recycling of condensate water. Under no circumstances ground water shall be used in the factory.

10. Power requirement is 6 MW/day for sugar and co-gen unit, the same is met through own generation. The steam generating system for the proposed Cogeneration Project comprises of two multi-fuel fired boiler with a Maximum Continuous Rating (MCR) of 70 TPH and 40 TPH (total capacity 110 TPH), with the outlet steam parameters at 45 kg/cm² and 5000 C. Fuel for Boiler is Bagasse. The bagasse requirement is 182054 MT/year.

11. The PP has submitted a letter no. MPCB/RO/KOP- 2878/2016 dated 28/07/2016 issued by the Regional Officer, Kolhapur, Maharashtra Pollution Control Board mentioning that the effluent/wastewater generated by the existing plant is well within the prescribed limit, based on the direction of the EAC.

12. The EAC, in its 17th meeting held on 26th- 29th December, 2016 has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.

13. Based on the proposal and information submitted by the Project Proponent, and considering the recommendation of the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. Specific Conditions:

- i. Zero liquid Discharge System shall be ensured.
- ii. Water requirement to be reduced at extent possible by using latest process methodology being used worldwide.
- iii. Fly Ash be generated shall be sent to nearby cement industry.
- iv. Green belt (10 m wide) of perennial plant species like Neem, Sesam, Teak etc., to be developed around the plant periphery ensuring the 33% area of the plant as green area. The Forest department may be consulted in this regard.
- v. Air emissions from all point source to be controlled by latest technology instruments. The emissions shall conform to the limits imposed by Maharashtra Pollution Control Board (MPCB).
- vi. Periodic soil and water sampling in nearby villages and water bodies to be done by the Project Authorities through 3rd part expert and report shall be submitted to the concerned regional office of the Ministry.
- vii. RO plant of sufficient capacity to be installed in the nearby villages to ensure safe drinking water supply. Maintenance of the RO plant will be owned by the Project Authorities.
- viii. Health check-up camps to be organized periodically in nearby villages.

- ix. A regular environmental manager having PG qualification in environmental sciences/environmental engineering to be appointed for looking after the environmental management practices in the plant.
- x. Automatic/online monitoring system (24 x 7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, State Government and any other statutory authority.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v. The overall noise levels in and around the plant area 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 conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vii. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- viii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.



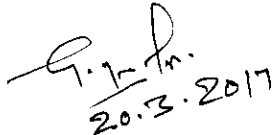
- ix. The company shall undertake all relevant measures for improving the socioeconomic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xii. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.
- xiv. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xv. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- xvi. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
- xvii. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.



14. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

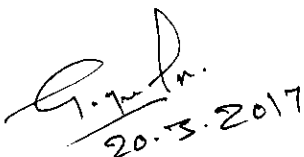
15. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

16. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


20.3.2017
(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai- 400 032.
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440001.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bhag, New Delhi- 110 003.
6. Guard File/Monitoring File/Website/Record File.


20.3.2017
(Yogendra Pal Singh)
Scientist 'D'