

SDSK/MOEF&CC/1620/2019-20

Date 28.06.2019

To,
The Regional Office (West Central Zone)
Ministry of Environment Forest & Climate Change
New Secretariat Building
Nagpur-440001

Sub.: Point wise Compliance report for Environment Clearance for the period from 1st October 2018 to 31st March 2019.

Ref: 1.EC vide letter No. J -11011/305/2016-IA II (I) dated 10th August, 2017.
2.EC vide letter No. J -11011/277/2013-IA II (I) dated 04th February, 2015.

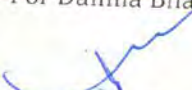
Respected Sir,

With reference to the above subject please find attached the point wise Compliance report for Environment Clearance for the period from 1st October 2018 to 31st March 2019. for the Expansion of Molasses Based Distillery (60 KLPD to 75 KLPD), Sugar Mill (7500 TCD to 9000 TCD) and Co-Generation Power Plant (30 MW to 32 MW) at Village Asurle-Porle, Tehsil Panhala, District Kolhapur (Maharashtra) by M/s Shri Datta Sakhar Karkhana (A unit of Dalmia Bharat Sugar and Industries Limited).

This is for your kind information and record please.

Thanking you,

Yours faithfully
For Dalmia Bharat Sugar & Industries Limited ,Asurle-Porle


Authorized Signatory

C.C. to: The Regional Officer, Maharashtra Pollution Control Board. Kolhapur-416003.

Shri Datta Sakhar Karkhana

(A Unit of Dalmia Bharat Sugar and Industries Limited)

Tal. Panhala, Dist. Kolhapur, Post : Porle Tarf Thane - 416 229, Maharashtra, India
t 91 231 2664 655 w www.dalmiasugar.com CIN : L26942TN1951PLC000640

Registred Office : Dalmiapuram, Dist. Tiruchirapalli, Tamil Nadu-621 651, India

A **Dalmia Bharat Group** company, www.dalmiabharat.com

Compliance Report

As per condition stipulated in

Environmental Clearance

Letter No- J-11011/305/2016-IA II (I) dated 10th August, 2017 & EC vide letter no. J-11011/277/2013-IA II (I) dated 04th February 2015

Compliance Period: 1st October 2018 to 31st March, 2019

For

Expansion of Molasses Based Distillery (60 KLPD to 75 KLPD), Sugar Mill (7500 TCD to 9000 TCD) and Co-Generation Power Plant (30 MW to 32 MW).

At

Village Asurle-Porle, Tehsil Panhala, District Kolhapur

(Maharashtra)

APPLICANT

M/s Shri Datta Sakhar Karkhana

(A unit of Dalmia Bharat Sugar and Industries Limited)

Hansalaya Building, 11th & 12th Floor, 15, Barakhamba Road, New Delhi 110001 Phone No.011-23465100, E-mail:rastogi.pankaj@dalmiasugar.com

EC Compliance

Name of Project: Expansion of Molasses Based Distillery (60 KLPD to 75 KLPD), Sugar Mill (7500 TCD to 9000 TCD) and Co-Generation Power Plant (30 MW to 32 MW) at Village Asurle-Porle, Tehsil Panhala, District Kolhapur (Maharashtra) by M/s Shri Datta Sakhar Karkhana (A unit of Dalmia Bharat Sugar and Industries Limited)

Period of Compliance : 1st October, 2018 to 31st March, 2019.

Ref: EC Vide Letter No. - J-11011/305/2016-IA II (I) dated 10th August, 2017 & EC vide letter no. J-11011/277/2013-IA II (I) dated 04th February, 2015.

Point wise compliance of conditions stipulated in EC vide letter no. -11011/305/2016-IA II (I) dated 10th August, 2017 & EC vide letter no. J-11011/277/2013-IA II (I) dated 04th February, 2015 are given as under: -

S. No.	Specific Condition	Compliance Status
	Compliance Status of EC vide letter no. -11011/305/2016-IA II (I) dated 10th August, 2017	
i	All the conditions of existing Environmental clearance shall be followed.	Complied. All the conditions of existing EC vide letter no. J-11011/277/2013-IA II (I) dated 04 th February, 2015 are being followed.
ii	10 m wide green belt of perennial trees around periphery of the plant shall be provided.	The company maintains 10 m wide greenbelt of perennial trees around periphery of the plant. Photographs showing Latest and old Greenbelt Development has been attached as Annexure 1.
iii	Green belt shall be developed in 33 % i.e., 11.53 Ha out of 34.9 Ha of area of the project.	Greenbelt has already been developed in 33% of the total project area and same has been maintained
iv	No additional fresh water shall be used for proposed expansion.	No additional fresh water is required for the expansion. As per the old EC condition water extraction restricted to 1250 KLPD.

v	No additional steam shall be used for proposed expansion.	No additional steam is required for the expansion in distillery unit.
vi	<p>At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) and shall be used only for installation of RO plant for drinking water supply and solar panel in nearby villages. Implementation of such program shall be ensured accordingly in a time bound manner. Following activities shall be under taken under ESC activities:</p> <ul style="list-style-type: none"> • RO plants shall be installed in nearby villages to ensure safe drinking water availability. The expenditure on maintenance on these RO plants will be owned by the Project proponent. • 5000 trees/ year shall be planted in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance reports. 	<p>2.5% of the total project cost has been earmarked towards the Enterprise Social Commitment (ESC) based on need assessment of the nearby villages.</p> <p>Socio-economic development activities being carried out by the company along with the expenditure incurred as Annexure-2.</p> <p>Socio-economic development activities being carried out by the company along with the expenditure incurred as Annexure-2.</p> <p>Expenditures on CSE activities during the period 1st October 2018 to 31st March 2019 is Rs 12,21,997 /-</p> <p>RO plants are installed in nearby villages and being maintained. (Pic Attached) .</p> <p>2000 trees per year have been planted in nearby villages with the consultation of the villagers.</p>
vii	A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering shall be appointed for looking after the environmental management activities of the proposed plant.	Environment Manager Appointed.
viii	No effluent shall be discharge outside the plant premises.	The plant is completely based on Zero Effluent Discharge. No Discharge is Ensured

ix	Continuous online (24 x7) monitoring shall be installed for flow measurement and measurement of pollutants within the treatment unit. Data shall be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.	Continuous online monitoring system has been already installed & commissioned and connected to the MPCB & CPCB Server by the company. The photographs of the same have been incorporated as Annexure -3
x	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	As a part of Risk assessment & management, the unit has made arrangements for protection of possible fire hazards. Fire fighting system is as per the norms.
xi	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is being/ will be done on a regular basis and records are being/ will be maintained as per the Factories Act.
Compliance Status of Environmental Clearance: J-11011/277/2013 IA II (I) Dated 04.02.2015 amended on 10.08.2016		
i	Environment clearance accorded is for molasses based distillery unit (60 KLPD) and no grain based distillery unit shall be operated without prior permission from the ministry.	No Grain based distillery unit is installed.
ii	Bag filter/ESP along with stack of adequate height shall be provided to Bagasse fired boiler to control particulate emissions within 50 mg/NM3. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be started until the control measures are rectified to achieve the desired efficiency.	Complied. ESP installed and ensured particulate emissions within 50 mg/Nm3. Pollution control systems are interlocked with production process. Latest Stacks monitoring results are enclosed as Annexure - 4 . Continuous online monitoring system for stack emissions has already been installed by the company.

		The photographs of the same have been incorporated as Annexure – 5.
iii	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling and conveyance of chemicals/ materials, multi cyclone separator & water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw material storage area, etc. shall be regularly monitored and records shall be maintained. The emissions shall conform to the limits imposed by MPCB.	<p>Complied.</p> <p>Provided necessary control measures for checking fugitive emissions from all the vulnerable sources like:-</p> <ul style="list-style-type: none"> • Water sprinkling system at bagasse yard. • Tankers are being used for dust suppression. • Covered conveyors for transporting bagasse and for coal storage. • Storage of finished goods in covered sheds. <p>Fugitive emissions are being monitored at bagasse yard, distillation house, cane yard & sugar yard. As per monitoring data the emission levels found to be within prescribed limits.</p> <p>Water sprinkling systems, Closed Storage,covered fuel handling photo to be attached as Annexure 6.</p>
iv	The gaseous emissions from D.G set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the D.G. sets to mitigate the noise pollution.	<p>Complied.</p> <p>D.G. Sets are used for rare emergency purpose only.DG set is installed with adequate stack height as per CPCB guidelines. Acoustic enclosure has also been provided.</p>

v	<p>The Company shall upload the status of compliance of the stipulated environmental clearance, including results of monitored data on its 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 MPCB. The levels of PM10, PM2.5, SO2, NOx, CO, HC (Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate and at important public places.</p>	<p>Complied.</p> <p>Uploaded, on regular basis, the status of compliance of the stipulated Environmental clearance conditions including results of monitored data on their website.</p> <p>The Ambient Air Quality monitoring for PM 2.5 PM10, SO2, NOX, VOC, HC (Methane) & CO has been carried out at four locations within the plant. Monitoring results are enclosed as Annexure 7. Air quality levels displayed at main gate of the company.</p>
vi	<p>Company shall follow good management practices viz collection of waste yeast sludge from fermentation section in a closed system & proper disposal, reduced volume of effluent by adopting strategic approaches, closed drains carrying Spent Wash to the treatment units, minimization of fugitive emissions, anaerobic treatment, minimum retention treated & untreated Spent Wash in the lagoons, and greenbelt development with suitable plantation in & around the treatment units to mitigate odour from the distillery unit.</p>	<p>Complied.</p> <ul style="list-style-type: none"> • Waste sludge and spent wash are transported through closed pipelines. • Anaerobic treatment is not required due to incineration route is adopted. • Spent wash is being concentrated in MEE and incinerated in incineration boiler. Spent lees and condensate water after treatment in CPU is being recycled back in process. • Concentrated spent wash used directly into the boiler with minimum retention time. • 33% greenbelt/plantation developed all around the plant boundary helps in reducing the odour, noise level, arresting dust and improves the environment in surrounding.
vii	<p>Pucca approach road to project site shall be</p>	<p>Complied.</p>

	constructed prior to commencing construction activity of the main distillery to avoid fugitive emissions.	RCC approach roads are constructed and maintained with mobile water sprinkling system to avoid fugitive emission.
viii	Total fresh water requirement from Kasari river for distillery and sugar along with co- generation shall not be exceed 1250 m ³ /day. Prior permission for the drawl of 1250 m ³ /day water shall be obtained from the competent authority and submitted to the MoEF& CC's Regional office.	Complied.
ix	Spent Wash generation for Molasses shall not exceed 8 KL/KL of alcohol produced (i.e 480 m ³ per day). The spent wash from molasses based distillery should be concentrated in MEE followed by incineration in incineration boiler to achieve Zero Discharge. Spent lees and condensate water after treatment will be recycled back in process. Spent wash shall be stored in impervious pucca lagoons with proper lining HDPE and shall be kept in proper condition to prevent groundwater pollution in the storage of spent wash shall not exceed 5 days capacity.	<p>Complied.</p> <p>Spent wash generation from molasses has not exceeded 8 KL/KL of alcohol production.</p> <p>The spent wash from molasses based distillery is being concentrated in MEE and incinerated in incineration boiler. Spent lees and condensate water after treatment is being recycled back in process and cooling towers.</p> <p>No effluent is being/will be discharged outside the distillery plant premises and Zero Effluent Discharge condition is being followed.</p> <p>1. Impervious lagoon with HDPE lining has been provided, having spent wash storage capacity not more than 5 days. Photographs has been attached as Annexure- 08.</p>
x	Waste water generation from the sugar unit shall not exceed 100 lit per Ton of crushed that is 750 m ³ /day. Effluent from sugar unit	<p>Complied.</p> <p>2. Effluent from Sugar Unit & Co-generation Power Plant is being treated</p>

	<p>shall be treated in the Effluent Treatment Plant (ETP). Water quality of treated effluent shall be monitored regularly. In any case, no waste water/ treated effluent shall be discharged into river/ natural stream. Domestic effluent shall be treated in Treatment plant.</p>	<p>in ETP and treated water is being recycled / reused in process and greenbelt development and ferti-irrigation.</p> <ol style="list-style-type: none"> 3. Online monitoring system for Water quality of treated effluent has already been installed. 4. ETP Flow chart and Photographs of online monitoring system & ETP has been attached as Annexure- 09. 5. As per the monitoring carried out by MPCB treated effluent quality found to be within the limits prescribed in consent granted by MPCB. Treated effluent quality report has been attached as Annexure- 10 6. Domestic Effluent is being treated Septic tank & soak pit and reused in gardening
xi	<p>Adequate numbers of groundwater quality monitoring stations by providing Piezometer around the project area shall be setup. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and this ministry. The groundwater quality monitoring for pH, COD, chloride, sulphate and total dissolved solids (TDS) shall be monitored. Sampling and trend analysis monitoring must be made in monthly basis and report submitted to the ministry's Regional office in Bhopal /Nagpur and MPCB.</p>	<p>Complied.</p> <p>No ground water withdrawal in the plant premises.</p> <p>Installation of modern integrated evaporation system followed by incinerator boiler to consume generated spent wash. Hence no spillage is ensured.</p> <p>Construction of pucca RCC lagoon in sugar plant for avoiding any spillage. Ground water analysis report (<i>sample collected nearby the plant</i>) attached as Annexure 11.</p>

xii	As proposed, no effluent from Sugar, Distillery and Co-generation Power Plant shall be discharged outside the premises and Zero Effluent Discharge concept shall be followed.	Complied. Treated effluent from sugar Plant is being used for irrigation. Treated effluent from Co-generation Power Plant is being recycled into process. No effluent is being discharge from Distillery. No effluent is being/will be discharged outside the plant premises and Zero Effluent discharge condition is being followed.
xiii	Bagasse storage should be done in such a way that it does not get air borne or fly around due to wind. Fly ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water direct exposure of workers to fly ash & dust shall be avoided.	Complied. <ul style="list-style-type: none"> • Sugar Plant is a seasonal industry and does not operate in rainy season. • Storage of bagasse is maintained scientifically with the adoption of sprinkling system along with covered conveying. • Fly ash is being stored separately as per CPCB guidelines. • Ash from the boiler is utilized in in-house brick manufacturing facility and balance given to Brick manufacturers.
xiv	Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for the firefighting shall be made to control fire from the alcohol storage tank.	Complied. Full-fledged fire fighting system is installed to cover complete distillery, sugar & Co-generation power plant. Photographs of fire fighting have been attached as Annexure 12.
xv	Risk assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to ministry and its regional office at Bhopal within 6 months.	Complied. The company has already taken measures towards alcohol storage and approved drawing approved from Petroleum and Explosive Safety organization.

		Letter of approved drawing has been attached as Annexure 13 .
xvi	Occupational health surveillance program should be undertaken as regular exercise for all the employee. The first aid facility in the occupational health Centre should be strengthened and the regular medical test records of each employee should be maintained separately.	Complied. Company regularly conducts occupational health surveillance programme once in year for all the employees & first aid facilities in the occupational health centre is strengthened with proper record .Records are being maintained at the plant. Sample Health reports have been attached as Annexure 14 .
xvii	Dedicated parking facility for loading and unloading of material shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.	Complied. Dedicated parking facility has already been provided in the factory premises for loading & unloading of materials and first in and first out system is ensured by the way of digitization. system is ensured by the way of digitization.
xviii	Green belt over 33% of the total project area should be developed within plant premises with at least 10 m wide green belt on all sides along the periphery of the project area, in downward direction, along roadsides etc. selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Complied. Out of the total plant area of 34.9 Ha, 11.53 Ha (i.e. 33%) has already been developed as Greenbelt /plantation. Greenbelt developed and its maintenance along with the road & plant boundary will attenuate Noise level, arrest dust level and improve the environment in surrounding. Native plant species has been planted in consultation with DFO.
xix	All the commitment made the during the public hearing/ public consultation meeting held on 30 th July 2014 should be satisfactorily implemented and adequate	Complied. Public Hearing issues are compiled as per attached Annexure 15 .

	budget provision should be made accordingly	
xx	At least 5% of the total cost of the project should be year marked towards the Enterprise social commitment (ESC) based on local need and action planes with financial and physical breakup/ details should be prepared and submitted to the ministries regional office at Bhopal. Implementation of such program should be insured accordingly in a time bound manner.	Complied A plan is carried out in consultation with local bodies to understand the local needs and accordingly ESC plan is attached as Annexure 2 . Photographs of CSR Activity have been attached as Annexure 16 .
XXI	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure & facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plants, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after completion of the project. All the construction waste shall be managed so that there is no impact on the surrounding environment	Complied. Construction work is over.

S. No	General Condition	Compliance Status
i	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and any other statutory authority.	Agreed for Compliance. Strict adherence to the stipulations made by the Maharashtra Pollution Control Board and State Government.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In	Agreed for compliance. No further expansion or modifications in the plant without prior approval of the Ministry of

	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.	Environment and Forests.
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 each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	The four locations of ambient air quality monitoring stations have been decided in consultation with the MPCB & monitoring is being done regularly by MPCB. As per Monitoring data the air quality levels found to be within prescribed limits.
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.	Agreed & Complied.
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).	Acoustic enclosures have been provided. Noise level monitoring during day and night time was carried out. Noise monitoring reports have been attached as Annexure 17 .
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.	Rain water from the roof tops of the buildings is being stored in storage tank and 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.	Complied Periodically training to all employees on Safety & Health aspects is prepared & implementing under the supervision of Safety Committee. Periodical medical examination of employees is being carried out annually.
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, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied ESP has been provided for the stack of Co-gen plant and Incineration Boiler. MEE has been provided for reducing the spent wash. Effluent Treatment Plant with Online Effluent Quality Monitoring System is in place. Green belt has been developed Water sprinkle system has been provided for controlling the fugitive emissions. Air Cooled condensers have been provided for reducing the water requirement. Regular Environmental quality monitoring is being done.
ix	The company shall undertake all relevant measures for improving the Socio-- economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Complied An amount of Rs. 1221997 /- has been spent towards CSR activities during 1 st October 2018 to 31 st March 2019. Plantation in nearby villages to be undertaken under eco-development eco-development measures.
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.	Complied Separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the Environmental Management & Monitoring functions has been set up.
xii	The company shall earmark sufficient funds towards capital cost and recurring cost per	The funds earmarked for Environmental protection measures are kept in a separate

	<p>Annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.</p>	<p>account and never spend on other purposes.</p>
xiii	<p>A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.</p>	<p>A copy of the clearance letter to concerned Panchayat, Zila Parishad/ Municipal Corporation Urban Local Body & the local NGO has been sent.</p>
xiv	<p>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, 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.</p>	<p>We are submitting six monthly compliance reports along with monitoring results to the concerned authorities, and same will also be posted on the website of the company.</p>
xv	<p>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.</p>	<p>We are submitting the environmental statement report for each financial year on 31st March, Form-V to the Maharashtra Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986. <i>Sugar Mill & Distillery Environmental Statement reports are enclosed as Annexure – 18.</i></p>
xvi	<p>The project proponent shall inform the public</p>	<p>We have already published the accordance of</p>

	<p>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.</p>	<p>Environmental Clearance in two local newspapers. Maharashtra Times on dated 03.09.2017 and Punyanagari on dated 04.09.2017</p>
xvii	<p>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.</p>	<p>Complied. During construction 6 monthly compliance reports have been submitted to Regional office of MoEFCC.</p>

Photographs showing Existing Greenbelt Development





Annexure 1



Expenditure on ESC 2018-19

Expenditures on CSE activities during the period 1st April 18 to 31st March 2019.

Sr.No.	Work details	Expenditure (Rs)
1	New compound wall construction for School at Porle Village	1221997 /- INR
2	RO Water plant 02 Nos installed at Asurle and Porle villages Capacity -, 1000 LPH and Green belt.	844109/- INR

[New compound wall construction for School at Porle Village.](#)



Annexure 2

RO Water plant 02 Nos installed at Asurle and Porle villages Capacity -, 1000 LPH with UV and Green belt.

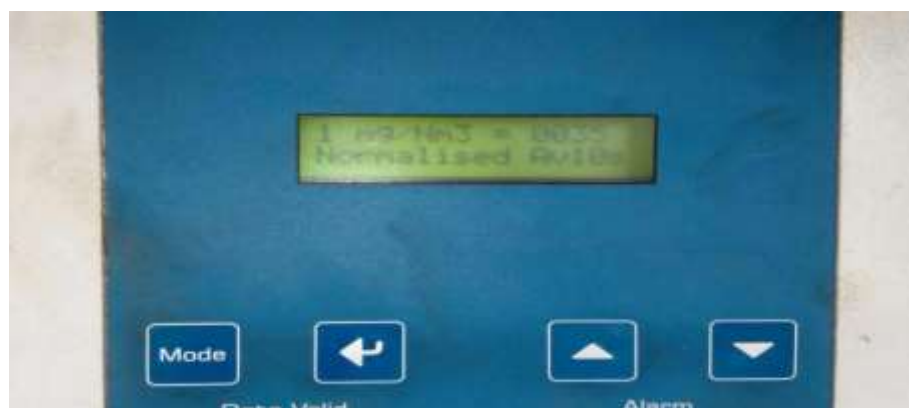


Annexure - 3

Continuous Online Monitoring System for Stack.



Online display for Stack Particulate Matter value



Continuous Online Monitoring System for Effluent Treatment Plant

ETP Outlet Online Monitoring System Results.



Probes for online monitoring of treated water quality





Annexure No-4

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

STACK EMISSION MONITORING REPORT

Report No.	: HS/REP/18-19/3650A
Dated	: 14/01/2019
Client.	: M/s Shree Datta Sakhar Karkhana
Site.	: (A UNIT OF DALMIA BHARAT SUGARS & INDUSTRIES LTD.) ASURLE -PORLE TAL : PANHALA DIST : KOLHAPUR
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	08/01/2019		
02	TEST LOCATION		Boiler 2 with ESP Capacity - 120 TPH/ Hr		
03	TIME OF SAMPLING (00.00)	Hrs	12:50		
04	MATERIAL OF STACK		-		
05	STACK HEIGHT	Mtr	75		
06	TYPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg C	132		
08	VELOCITY	M/Sec	5.6		
09	DIAMETER OF STACK	M	3.20		
10	GAS VOLUME	Nm ³ /Hr	120208.00		
11	TPM	mg/Nm ³	43.00	As per Consent	IS 11255 (Part 1)
12	SO ₂	Kg/Day	0.20	As per Consent	IS 11255 (Part2)

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. A. G. S. K. A.
For HORIZON SERVICES

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.



Annexure No-4

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

STACK EMISSION MONITORING REPORT

Report No.	: HS/REP/18-19/3650A
Dated	: 14/01/2019
Client.	: M/s Shree Datta Sakhar Karkhana
Site.	: (A UNIT OF DALMIA BHARAT SUGARS & INDUSTRIES LTD.) ASURLE -PORLE TAL : PANHALA DIST : KOLHAPUR
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	08/01/2019		
02	TEST LOCATION		Boiler 3 Capacity – 22 TPH/ Hr		
03	TIME OF SAMPLING (00.00)	Hrs	14:10		
04	MATERIAL OF STACK		-		
05	STACK HEIGHT	Mtr	62		
06	TYPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg C	142		
08	VELOCITY	M/Sec	6.8		
09	DIAMETER OF STACK	M	2.0		
10	GAS VOLUME	Nm ³ /Hr	55336.00		
11	TPM	mg/Nm ³	36.00	As per Consent	IS 11255 (Part 1)
12	SO ₂	Kg/Day	0.21	As per Consent	IS 11255 (Part2)

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

menalgokar
For HORIZON SERVICES



DISCLAIMER :

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Amesha NO-4

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

STACK EMISSION MONITORING REPORT

Report No.	: HS/REP/18-19/3650A
Dated	: 14/01/2019
Client.	: M/s Shree Datta Sakhar Karkhana
Site.	: (A UNIT OF DALMIA BHARAT SUGARS & INDUSTRIES LTD.) ASURLE -PORLE TAL : PANHALA DIST : KOLHAPUR
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	08/01/2019		
02	TEST LOCATION		Boiler 1 with ESP & OLMS Capacity - 120 TPH/ Hr		
03	TIME OF SAMPLING (00.00)	Hrs	11:30		
04	MATERIAL OF STACK		-		
05	STACK HEIGHT	Mtr	76		
06	TYPE OF STACK		Round		
07	FLUE GAS TEMPERATURE	Deg C	148		
08	VELOCITY	M/Sec	4.1		
09	DIAMETER OF STACK	M	3.27		
10	GAS VOLUME	Nm ³ /Hr	88714.0		
11	TPM	mg/Nm ³	41.00	As per Consent	IS 11255 (Part 1)
12	SO ₂	Kg/Day	0.18	As per Consent	IS 11255 (Part2)

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. Argalake
For HORIZON SERVICES

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Annexure 5

Photographs showing Existing Air Pollution Control Measures



Photographs Showing Fugitive Emission Control Measures





Annexure No- 7

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

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AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Report No.	: HS/REP/18-19/3650A
Dated	: 14/01/2019
Client.	: M/s Shree Datta Sakhar Karkhana
Site.	: (A UNIT OF DALMIA BHARAT SUGARS & INDUSTRIES LTD.) ASURLE -PORLE TAL : PANHALA DIST : KOLHAPUR
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	08/01/2019		
02	TEST LOCATION		Near Distillery Boiler		
03	TIME OF SAMPLING	Hrs	09:40		
04	TEMPERATURE (Max./Min)	Deg C	30/22		
05	RELATIVE HUMIDITY	% RH	40		
06	SAMPLING DURATION	Hrs	8		
08	PM ₁₀	µg/m ³	67.20	≤100	IS 5182(part 23),2006
09	PM _{2.5}	µg/m ³	26.58	≤60	CPCB Guidelines Volume - I Pg. No.15
10	SO ₂	µg/m ³	7.00	≤80	IS 5182(part 2),2001, RA 2006
11	NO ₂	µg/m ³	26.00	≤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	14/12/2018	13/12/2019
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. N. Argalika
For HORIZON SERVICES



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Annexure No-7

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Lab OHSAS Approved

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AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Report No.	: HS/REP/18-19/3650A
Dated	: 14/01/2019
Client.	: M/s Shree Datta Sakhar Karkhana
Site.	: (A UNIT OF DALMIA BHARAT SUGARS & INDUSTRIES LTD.) ASURLE -PORLE TAL : PANHALA DIST : KOLHAPUR
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	08/01/2019		
02	TEST LOCATION		Near Bagase Yard		
03	TIME OF SAMPLING	Hrs	09:30		
04	TEMPERATURE (Max./Min)	Deg C	30/22		
05	RELATIVE HUMIDITY	% RH	40		
06	SAMPLING DURATION	Hrs	08		
07	PM ₁₀	µg/m ³	73.25	≤100	IS 5182(part 23),2006
08	PM _{2.5}	µg/m ³	31.69	≤60	CPCB Guidelines Volume - I Pg. No.15
09	SO ₂	µg/m ³	9.50	≤80	IS 5182(part 2),2001, RA 2006
10	NO ₂	µg/m ³	29.50	≤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. Agarkar
For HORIZON SERVICES



DISCLAIMER :

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Annexure No-7

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Lab OHSAS Approved

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AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Report No.	: HS/REP/18-19/3650A
Dated	: 14/01/2019
Client.	: M/s Shree Datta Sakhar Karkhana
Site.	: (A UNIT OF DALMIA BHARAT SUGARS & INDUSTRIES LTD.) ASURLE -PORLE TAL : PANHALA DIST : KOLHAPUR
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	08/01/2019		
02	TEST LOCATION		Near Factory Main Gate		
03	TIME OF SAMPLING	Hrs	09:20		
04	TEMPERATURE (Max./Min)	Deg C	30/22		
05	RELATIVE HUMIDITY	% RH	40		
06	SAMPLING DURATION	Hrs	08		
07	PM ₁₀	µg/m ³	71.05	≤100	IS 5182(part 23),2006
08	PM _{2.5}	µg/m ³	29.62	≤60	CPCB Guidelines Volume - I Pg. No.15
09	SO ₂	µg/m ³	9.00	≤80	IS 5182(part 2),2001, RA 2006
10	NO ₂	µg/m ³	27.50	≤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/09-18/13	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)

M. N. Angolkar
For HORIZON SERVICES



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Annexure 8

Photographs of RO based Process condensate Treatment Plant and 5 days spent wash storage tank.



EFFLUENT TREATMENT PLANT

Aeration Tank



[Online monitoring system Display water quality](#)



[Probe for online monitoring of treated](#)



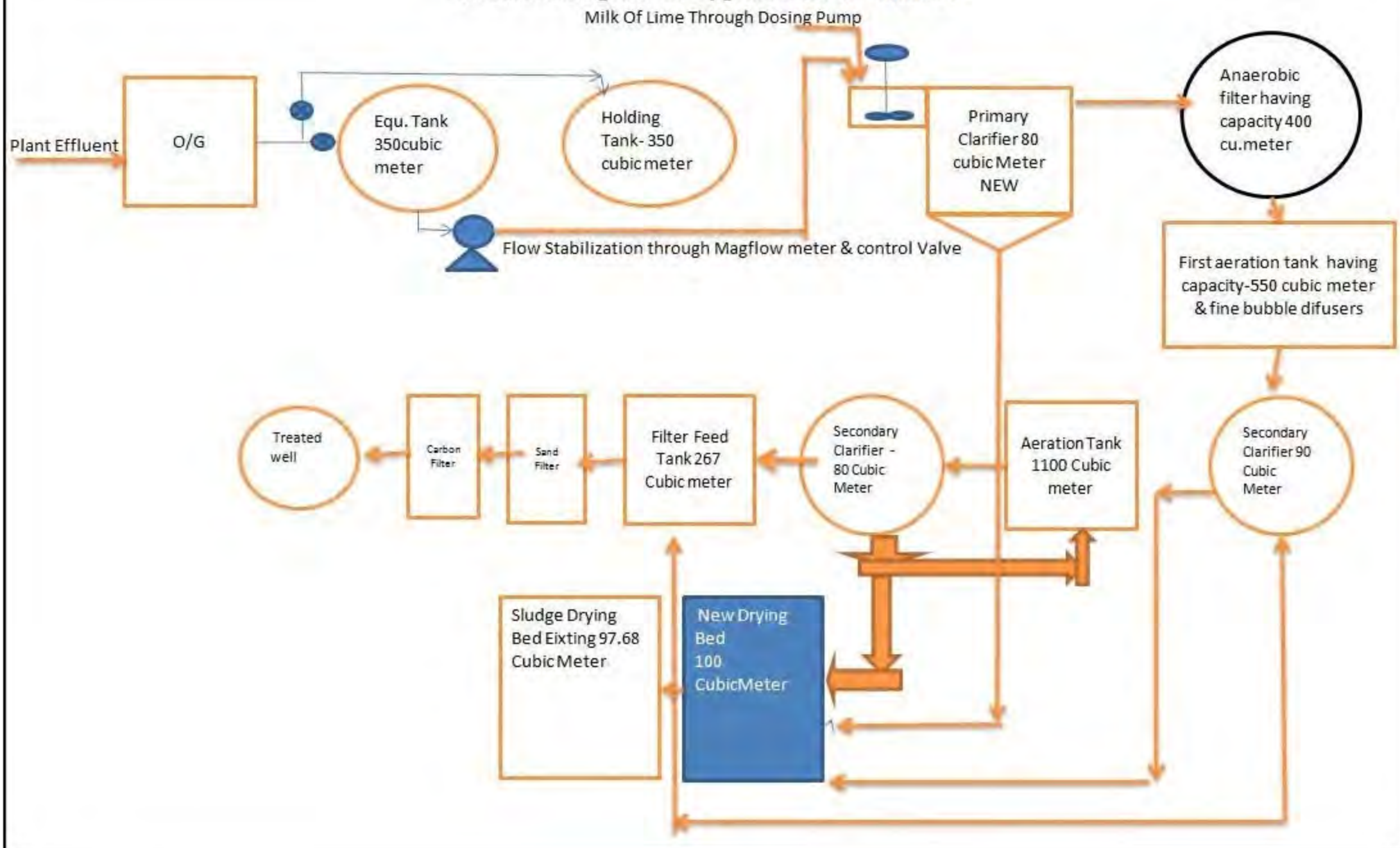
[ETP inlet Effluent Flow meter](#)



[ETP Outlet flow](#)



Schematic Diagram for Upgraded ETP at 9000TCD





Annexure No-10

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

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• 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/3638A
M/s.Shree Renuka Sugars Ltd. (Unit: DB. R. K. Panchaganga SSK Ltd.) Ganganagar, Ichalkaranji, Tal- Hatkanagale, Dist – Kolhapur, Maharashtra.	REPORT DATE	14/01/2019
	LAB REFERENCE NO	HS/LAB/WA/0980A
	DATE OF SAMPLING	08/01/2019
	DATE OF ANALYSIS	09/01/2019

DETAILS OF SAMPLE	SAMPLE COLLECTED BY	NATURE	LOCATION
Waste-water sample	Shrusti Envirocare	Treated	ETP

RESULTS OF ANALYSIS

SR NO	DESCRIPTION	UNIT	RESULT	MPCB LIMITS	TEST METHOD
1	pH	---	7.20	5.5 to 9.0	APHA 23 rd 2017, 4500-H ⁺ B
2	Total Suspended Solids	mg/lit	62.00	< 100.00	APHA 23 rd 2017, 2540 D
3	Total Dissolved Solids	mg/lit	1289.00	< 2100.00	APHA 23 rd 2017, 2540 D
4	Chemical Oxygen Demand	mg/lit	198.00	< 250.00	APHA 23 rd 2017, 5220 C
5	Biochemical Oxygen Demand (27°C for 3 days)	mg/lit	61.00	< 100.00	IS-3025 (Part 44)- 1993 R-2003
6	Chlorides as Cl ⁻	mg/lit	231.00	< 600.00	APHA 23 rd 2017, 4500 Cl ⁻ B
7	Sulphates as SO ₄ ⁻⁻	mg/lit	474.00	< 1000.00	APHA 23 rd 2017, 4500 SO ₄ - E
8	Oil & Grease	mg/lit	2.80	< 10.00	APHA 23 rd 2017, 5520 B

For HORIZON SERVICES

M. N. Agarkar
(LAB INCHARGE)

DISCLAIMER:

Report will be retained only for 15 days. • Above results indicate to the parameters mentioned only. • Liability limited till issue of test reports only.
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REGIONAL LABORATORY, CHIPLUN
(An ISO: 9001:2015 & OHSAS: 18001:2007 Certified Laboratory)

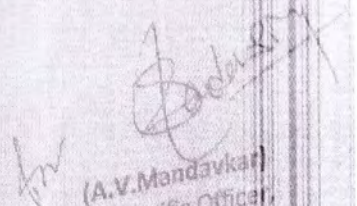
The Sub Regional Officer,
R.P.C. Board, Kolhapur.

ANALYSIS REPORT

Lab Report No : - E-402
Date of collection : -01/12/2018
Date of receipt : -04/12/2018
Details of Sample :-Water sample in farm of Shri. Bajirao Pawar.

Parameter	Results
pH	6.9
B.O.D. 3days 27°C	10.0
C.O.D.	56.0
Suspended Solid	18.0
Oil & Grease	BDL
Chloride	25.0
Sulphate	38.0
Total Dissolved solids	418.0
Total Alkalinity	52.0
Hardness	172.0
Nitrate	0.72
Dissolved Oxygen	2.0
TKN	NA
Phosphate	0.21

- Sample collected by S.B. More, FO.
- Note: - 1) All Result is in ppm except pH, Conductivity & Turbidity.
2) BDL- Below Detectable Limit.
3) NA- Not Analyzed.


(A.V. Mandavkar)
Scientific Officer,
Regional Laboratory, Chiplun

SIDDHANATH LABORATORY

Shingnapur, Road, PHALTAN.
Phone : 222044, 221690

Dr. SANJEEVANI S. RAUT
M.B.B.S., D.C.F

Reg. No. 071697

Patient : Hemant Wanjari

31.01.2019

Ref.By. : Dr. S. K. Raut

COMPLETE HAEMOGRAM

<u>Test Done</u>	<u>Observed Value</u>	<u>Normal Range</u>
Haemoglobin	13.6 gm%	12-15.5gm%
ESR	10 mm/hr	0-10

BLOOD BIOCHEMISTRY REPORT

<u>Test Done</u>	<u>Observed Value</u>	<u>Normal Range</u>
Blood Glucose(F)	87.0 mg%	70-100
Urine Sugar (F)	Nil	

<u>Test Done</u>	<u>Observed Value</u>	<u>Normal Range</u>
BLOOD GROUP & RH TYPE	" O " Positive	

Patient : Hemant Wanjari

31.01.2019

Ref.By. : Dr. S. K. Raut

URINE EXAMINATION REPORT**Physical Examination**

Colour	Pale Yellow
Reaction	Acidic
Appearance	Clear

Chemical Examination

Sugar	Nil
Proteins	Nil
Acetone	Nil
Bile Salts	Nil
Bile Pigments	Nil

Microscopic Examination

RBCS	Nil
Pus Cells	Occasional
Epithelial Cells	Occasional
Cast	Nil
Crystals	Nil
Miscellaneous	Nil

Patient : Hemant Wanjari

31.01.2019

Ref.By. : Dr. S. K. Raut

LIPID PROFILE

<u>Test Done</u>	<u>Observed Value</u>	<u>Normal Range</u>
Sr.Cholesterol	143.0 mg/dl	150-250
Sr.Triglyceride	140.0 mg/dl	M60-156;F40-140
HDL	37.95 mg/dl	40-59
Sr.LDL	77.05 mg/dl	130-160
VLDL	28.0 mg/dl	7-35
Total Chol : HDL Ratio	3.7	3-6

Note:

Risk Factor in Coronary Disease :

LOW RISK

Cholesterol : Less than 200 mg/dl
LDL Cholesterol : Less than 130 mg/dl
Total Chol./HDL Chol : Less than 5.1

HIGH RISK

Cholesterol : More than 240 mg/dl
LDL Cholesterol : More than 160 mg/dl
Total Chol./HDL Chol : More than 8.0

MODERATE RISK

Cholesterol : 200 - 240 mg/dl
LDL Cholesterol : 130 - 160 mg/dl
Total Chol./HDL Chol : 5.1 - 8.0

Siddhanath Hospital & Research Centre

Shingnapur Road, Phaltan (Satara)
Tel.: 222044, 221690



Dr. Sanjay Raut

M.D (Med.)

Regd. No.59142

Name : Nemantha L. Wanjari

31.1.19

3370 / M.

O.P.: 140/80 mmHg.

Insulin: NAD.

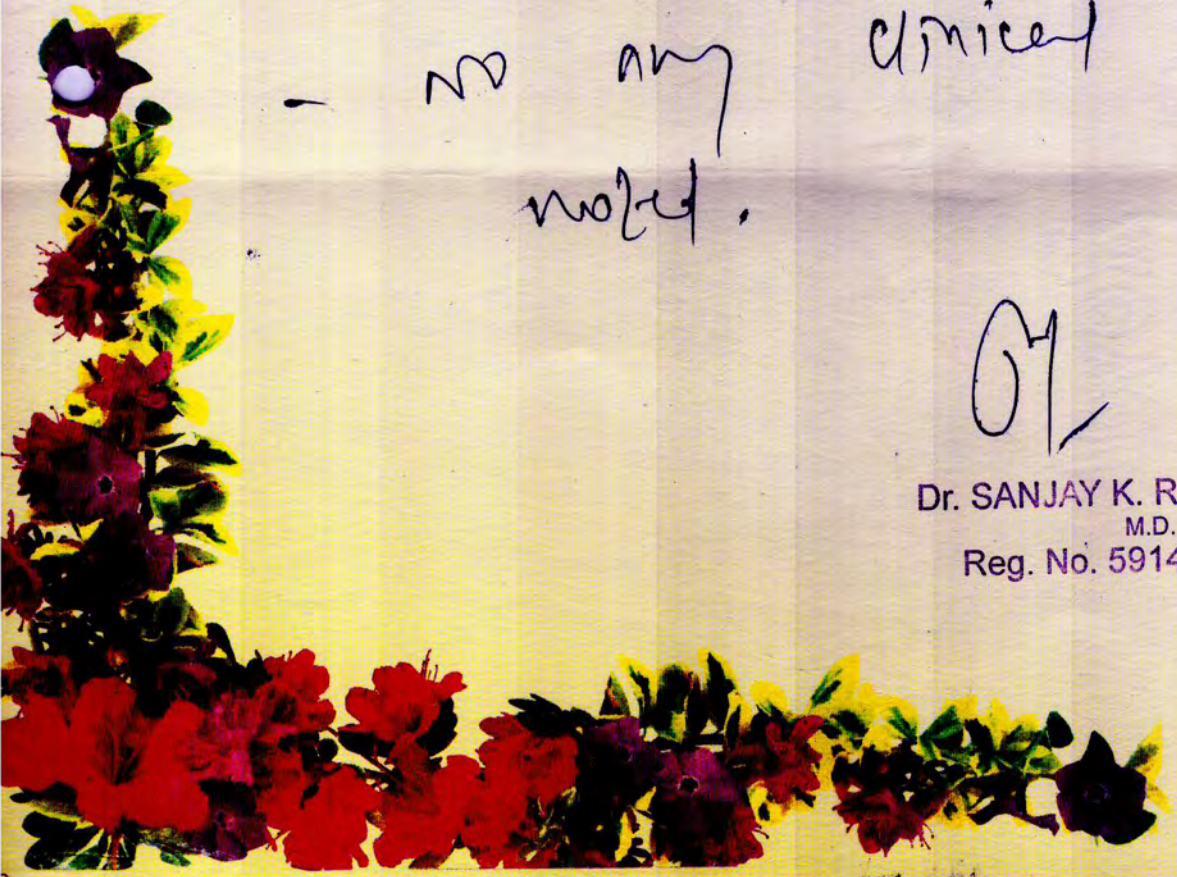
GA (HA): NAD.

EH: WNL.

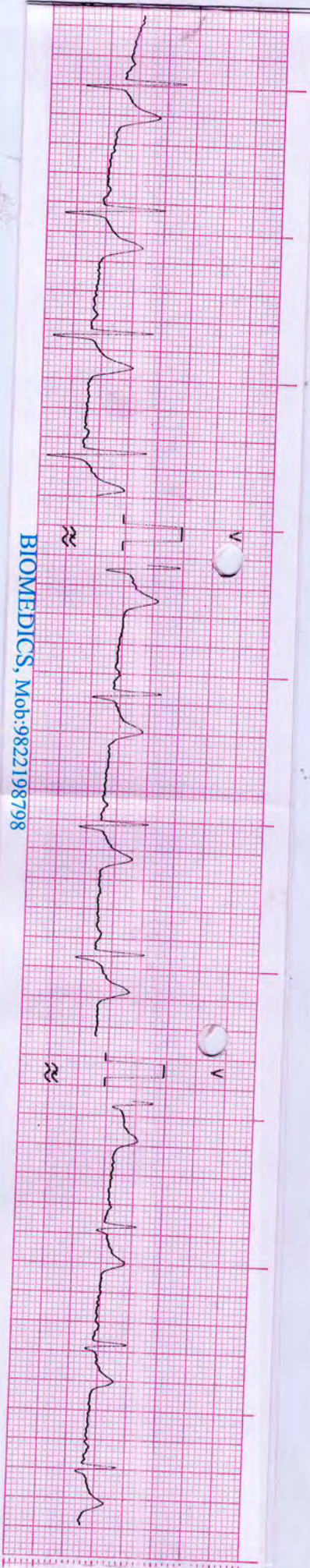
- NO any
notes.

clinical abnormality

Dr. SANJAY K. RAUT
M.D. (Med.)
Reg. No. 59142



BIOMEDICS, Mob:9822198798



Action plan for issues raised in public hearing

S. No.	Issue raised during PH	Reply/ Commitment during PH	Action Taken
1.	How the industry will manage the Waste water generated from proposed project (1) (17)	In existing ETP, primary, secondary and tertiary treatment scheme is already in operation. After treatment, treated effluent is stored in pucca concrete storage tank with capacity of fifteen days. Finally this treated effluent is used for irrigation on available land.	Action completed. <ul style="list-style-type: none"> ETP capacity was increased in line with expanded capacity. Additional equipment was added. Pucca concrete lagoon constructed. State of art incineration technology adopted as suggested by Honourable Ministry along with RO plant in distillery.
2.	How fly Ash from sugar mill will be managed (2)	There is existing boiler of capacity of 120 TPH for which ESP is provided having efficiency of 99.998% along with 76 m height chimney to control stack emissions. One more boiler of 80 TPH is proposed with 70 m stack height. ESP is designed to control emission less than 100 mg/Nm ³ from both ESPs against MPCB norms of 150 mg/Nm ³ . Ash collected in ESP hopper is conveyed through pneumatic conveying system to avoid secondary pollution. Presently, the ash is given to brick manufacturers. After expansion ash will be collected in silo and it will be additionally sold to cement industries.	Action completed. <ul style="list-style-type: none"> Ash collection silo installed In house brick manufacturing facility created to use fly ash.
3.	Disposal of spent wash and steps taken in case of failure of spent wash treatment. (3 and 4).	Spent Wash is sent for anaerobic treatment & thus production of useful Biogas (used as fuel in boiler), which is followed by concentration in multi-effect evaporator which will reduce spent wash from 770 m ³ to less than 300 m ³ . Concentrated Spent Wash will be mixed scientifically with Press Mud generated from Sugar Unit to manufacture Organic Manure. Organic Manure is having a ready market in agriculture, hence will be sold to nearby farmers and fertilizer companies.	Action completed. <ul style="list-style-type: none"> Improved and latest technology to treat concentrated spent wash as Multi-Effect Evaporator followed by incineration is adopted to consume complete spent wash generated in process. However, due to above capital cost has increased by manifold as compared to our initial budgetary allocation.
4.	Effect on Panchganga River (8) (19) (24)	Spent wash will be treated 100%. No spillage and percolation. At present there is no spillage and percolation from sugar and co gen effluents. In addition approximately 14,040 m ³ of storage capacity in lagoons with	Action completed. <ul style="list-style-type: none"> As a result of adoption of better technology

Annexure 15

		concrete structure and HDPE lining have been created. This will ensure no effect on drinking water.	<ul style="list-style-type: none"> 100% spent wash consumption is ensured. In sugar section ETP Pucca Concrete Lagoon facility are maintained to ensure no leakage & seepage.
5.	Problem of Percolation from lagoons (5) & (6) and its impact.	All the lagoons as stated in point number 4 are now made pucca with concrete structure and HDPE lining. Since then no leakage or percolation from lagoon is observed.	Action completed. Please refer reply in point no. 4.
6.	Complaints to SPCB regarding discharge of effluents into the Nallas (6) and (7)	There is no discharge from factory into the Nallah. This will be ensured with implementation of irrigation schemes to be undertaken for 73 acres of land for farming after proposed expansion. At present all treated water is supplied to farmers with total 50 acres of land.	Action completed. Treated water is regularly been supplied to the farmers for irrigation. It will be ensured that treated water meets desired standards. Valid agreement with farmers is available for 60 acres.
7.	Will the farmers benefit from the proposed distillery (11) (12)	Yes, the project will provide benefits at local and national level. The ethanol produced will help in reducing import dependency and power generated is green power which will also help the local population. Also, sugarcane rate will depend on the policy of govt.	Yes. <ul style="list-style-type: none"> Timely payments to farmers are ensured. Average distance to supply cane to sugar factories is decreased. Better crop cycle is ensured.
8.	Effect on agriculture & health of people (9) (12) (13) (20).	No adverse effect will be there. ESP will be installed with proper stack height. Zero water discharge distillery unit. Effluent from Co-gen & sugar will be treated in ETP & will be supplied for irrigation purpose. Green belt plantation will be done.	Action completed. Please refer reply in point no. 1,2,3,4,6& 7.
9.	Air & Water Pollution Control (12), (13).	At present ESP & closed ash conveying system is installed along with proper stack height with Co-generation plant. This will ensure no air pollution. Our proposed molasses based distillery is completely Zero Discharge project.	Action completed. Please refer reply in point no. 1,2,3,4 & 6.

Enterprise Social Commitment (ESC)

Fuel Efficient Chulha Distribution Program



Solar lanterns distributed for Farmers





[Digital Literacy Mission \(World On Wheels\)](#)



Annexure 16



Health Check up By Experts



In School Two Sanitation Blocks are constructed, Beneficiary No.503

X



School Eye Checkup Camps





Annexure No-17

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.
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AMBIENT NOISE LEVEL MONITORING REPORT

Report No.	: HS/REP/18-19/3650A
Dated	: 14/01/2019
Client.	: M/s Shree Datta Sakhar Karkhana
Site.	: (A UNIT OF DALMIA BHARAT SUGARS & INDUSTRIES LTD.) ASURLE -PORLE TAL : PANHALA DIST : KOLHAPUR
Sample Collected by	: M/S. SHRUSTI ENVIROCARE
Date of Sampling.	: 08/01/2019

RESULTS

SR. NO.	TEST LOCATION	UNIT	DAY TIME		NIGHT TIME	
			Time	Readings	Time	Readings
01	Near Mill House	dB (A)	12:10 hrs.	73.6	22:20 hrs.	67.2
02	Near Turbine House	dB (A)	12:20 hrs.	74.1	22:30 hrs.	69.2
03	Near Godown	dB (A)	12:30 hrs.	71.1	22:40 hrs.	63.8
04	Near Boiling House	dB (A)	12:40 hrs.	72.6	22:50 hrs.	65.1
05	Dear Distillation	dB (A)	12:50hrs.	71.8	00:10 hrs.	61.9

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	22/02/018	21/02/2019

Limits:

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

REMARK/OBSERVATIONS:

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

M. N. Gaikwad
For HORIZON SERVICES



DISCLAIMER

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Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

Environmental Audit Report for the financial Year ending the 31st March 2018

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000013770

Submitted Date

29-09-2018

Company Information

Company Name

Shree Datta Sakhar Karkhana (A Unit of Dalmia Bharat & Sugar Industries Ltd)

Application UAN number

0000027545

Address

A/P Asurle Porle Taluka Panhala

Plot no

1746,1748 to 1756

Taluka

Panhala

Village

Asurle Porle

Capital Investment (In lakhs)

32406

Scale

LSI

City

Kolhapur

Pincode

416229

Person Name

TN. Singh

Designation

Asst.Executive Director

Telephone Number

0231-2664655

Fax Number

0231-2664655

Email

singhkp@dalmiasugar.com

Region

SRO-Kolhapur

Industry Category

Red

Industry Type

R12 Sugar (excluding Khandsari)

Last Environmental statement submitted online

yes

Consent Number

1.0/BO/CAC-CELL/UAN
NO.0000027545/CAC-1712000212

Consent Issue Date

07/12/2017

Consent Valid Upto

31/07/2018

Product Information

Product Name	Consent Quantity	Actual Quantity	UOM
Sugar	184890	114479	MT/A
Co-Generation - (Electric power)	30	28	Mwh

By-product Information

By Product Name	Consent Quantity	Actual Quantity	UOM
Molasses	54000	32851	MT/A
Press mud	54000	24627	MT/A
Bagasse	411600	215617	MT/A

1) Water Consumption in m3/day

Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
Cooling	790	715
Domestic	510	385
	150	150

All others	0	0
Total	1450	1250

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
PROCESS	750	750	CMD
DOMESTIC	120	120	CMD
OTHER COOLING/ BOILER BLOWDOWN	90	90	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
Sugar, Molasses, Pressmud, bagasse, Power	1450	1250	CMD

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
Sugarcane	585413	860746	MT/A
Lime	1012	1377	MT/A
Sulphur	360	443	MT/A
NA	NA	NA	MT/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
Baggase	287280	178295	MT/A
Coal	50760	27312	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		
BOD	59	70	0	100	NA
COD	90.12	118	0	250	NA
Sulphates	240	321	0	1000	NA
Chlorides	218	285	0	600	NA
Oil & Grease	10	1	0	10	NA
TDS	1120	1420	0	2100	NA

[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		
SPM	432	48	0	150	NA
SO2	2256	10	0	50	NA

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used /spent oil	8	7.10	MT/A
34.3 Chemical sludge from waste water treatment	10	9	MT/A

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
34.3 Chemical sludge from waste water treatment	10	9	MT/A

SOLID WASTES**1) From Process**

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
FLY ASH	4572	4313	MT/A
ETP SLUDGE	7.62	13	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
FLY ASH	4572	4313	MT/A
ETP SLUDGE	7.62	13	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used /spent oil	5	6	MT/A
5.2 Wastes/residue containing oil	5	6	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
5.1 Used /spent oil	5	MT/A	NA
5.2 Wastes/residue containing oil	5	MT/A	NA

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
FLY ASH	4313	MT/A	NA
ETP SLUDGE	7.62	MT/A	NA

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)
APC as ESP	NA	100	100	15	1000	12
ETP	35	NA	NA	NA	100	10

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

Plantation of trees , provision of 75 acres land for irrigation , regular operation and maintenance of APC and ETP,

Environmental Protection Measures Capital Investment (Lacks)

Plantation of trees , Recycling Reuse of wastes and achieved ZLD 1000

[B] Investment Proposed for next Year**Detail of measures for Environmental Protection**

ETP , EMC ,Greenbelt development,Recycling Reuse of wastes and achieved ZLD

Environmental Protection Measures

Plantation of trees, ZLD

Capital Investment (Lacks)

1000

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

We have provided APC in the form of ESP to both Boilers as well as provision Primary Secondary & Tertiary treatment for Effluent .Treated effluent is used for on land application for irrigation of about 75 acres land

Name & Designation

TN Singh Asst.Executive Director

1) Effluent Generation in CMD / MLD

Particulars	Consent Quantity	Actual Quantity	UOM
480 CMD (200 AFTER VOLUME REDUCTION)	480 CMD (200 AFTER VOLUME REDUCTION)	480	CMD
DOMESTIC	4.0	4.0	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
Distillery including Fermentation Industry	280	280	CMD
Distillery including Fermentation Industry	280	280	CMD
Distillery including Fermentation Industry	280	280	CMD
Distillery including Fermentation Industry	40	40	CMD

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
Sulphuric Acid	32.4	32.4	KL/A
Molasses	64800	64800	KL/A
Nutrient (N & P)	16.2	16.2	KL/A
Turkey Red Oil	32.4	32.4	KL/A

4) Fuel Consumption

Fuel Name	Consent quantity	Actual Quantity	UOM
--NA--	0	0	MT/A
Coal	25900	16057	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) Quantity	Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
SPENT WASH	480	IN INCREATION	0	0	NA

[B] Air (Stack)

Pollutants Detail	Quantity of Pollutants discharged (kL/day) Quantity	Concentration of Pollutants discharged(Mg/NM3) Concentration	Percentage of variation from prescribed standards with reasons %variation	Standard	Reason
SPM	2.88	45	0	0	NA

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
	0	5130	Kg/Annum
	0	5130	Kg/Annum

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
	0	0	Kg/Annum
	0	0	Kg/Annum

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
NA	NA	NA	Kg/Annum

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
COMPOST	0	12500	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
	NA	NA	Kg/Annum
	NA	NA	Kg/Annum

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
	5130	Kg/Annum	WITHIN LIMITS
	5130	Kg/Annum	WITHIN LIMITS

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
FLY ASH	100	MT/A	WITHIN LIMITS

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)
MULTIPAL EVAPORATEOR	10	0	0	2	1500	1500
GREEN BELT AND	0	0	0	0	3.0	1.0

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)
Provision of multiple evaporator and incineration	plantation tree and no storage of spent wash	1500

[B] Investment Proposed for next Year

Detail of measures for Environmental Protection	Environmental Protection Measures	Capital Investment (Lacks)
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Green Belt Addition

reduction pf spent wash zld

5.0 investment (lacks)Green belt
addition Reduction

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

Particulars

Provision of spent wash reduction through multiple evaporator, followed by incineration boiler with ESP and stack . Green belt of about 2 acres

Name & Designation

Sandeep Misra DGM

कळ फाटा येथे एटीएम मशीन फोडण्याचा यत्न केल्याचे दिसून येत आहे.

मो. 8888836821

वरील जाहिरातीच्या उरकमेवर ५ % जोडणी करू देणारा धावा लागेल.

♦ पर्यावरण अनुमतीबाबतची सूचना ♦

प्रस्तावाच्या अनुषंगाने कळविण्यात येते की, पर्यावरण आणि वन मंत्रालयाने पर्यावरण अनुमती प्रस्ताव मंजूर केलेला आहे. कृपया याबाबतच्या मंजूरी पत्राच्या प्रती महाराष्ट्र राज्य प्रदूषण नियंत्रण मंडळ या पोर्टलवर दि. १०/०८/२०१७ च्या क्र. जे-११०११/३०४/२०१६-अवर II (I) या पत्रानुसार उपलब्ध करण्यात आलेल्या आहेत. तसेच <http://moef.mca.gov.in> या मंत्रालयाच्या वेबसाईट पोर्टलवरती देखील पाहता येतील.

श्री दत्त साखर कारखाना, आसुर्ले-पोर्ले
(प्रोप्रा. डालमिया भारत शुगर अँड इंडस्ट्रीज लि.) ता. पन्हाळ, जि. कोल्हापूर, (महाराष्ट्र) ४१६ २२१

हायकूचा श्वास हरवला!

कारणाचेच धोषीय श्वास

आपला श्वासोच्छ्वास कसा काय चालतो हे आपण ज्ञानाच्या अंधारातून बाहेर काढण्यासाठी श्वासोच्छ्वास यंत्रणेची कार्यप्रणाली समजावून घ्यावी. श्वासोच्छ्वास यंत्रणेची कार्यप्रणाली समजावून घ्यावी. श्वासोच्छ्वास यंत्रणेची कार्यप्रणाली समजावून घ्यावी.

कारणाचेच धोषीय श्वास

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कारणाचेच धोषीय श्वास

पर्यावरण अनुमतीबाबतची सूचना

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