

Tel. : "HIRASUGAR"
Fax No. : 08333 - 273001
E-Mail : hirasugarskv@gmail.com

STD : 08333
Office : 251001
GST No. 29AAAAH0152M1ZP



Shri Hiranyakeshi Sahakari Sakkare Karkhane Niyamit,

Dist : Belagavi)

SANKESHWAR - 591 314.

(Karnataka State

(Railway Station : GHATAPRABHA S.C. Rly.)

ಶ್ರೀ ಹಿರಣ್ಯಕೇಶಿ ಸಹಕಾರಿ ಸಕ್ಕರೆ ಕಾರಖಾನೆ ನಿಯಮಿತ,

ಜಿ. ಬೆಳಗಾವಿ)

ಸಂಕೇಶ್ವರ - 591 314

(ಕರ್ನಾಟಕ ರಾಜ್ಯ)

No 3 9 5 9

No.Env.O/ /22

17 DEC 2022
Date:

To:

Regional Office: Belgaum -2,
Karnataka State pollution Control Board,
Plot No.3224/3, "Hanuman Nivas",
1st Floor, B.K. College Road,
CHIKKODI, Belgaum District - 591 201.

Dear Sir,

Sub: Self Declaration on the Compliance to the Environmental Acts reg..

Ref: 1) Your letter No.KSPCB/ZO-DWD/Sugar & Distillery/2022-23/409

Dtd:15/11/2022,


2) Your Email Dtd: 21/11/2022

3) Your Visit Dtd: 07/12/2022.

With reference to the above subject and reference cited above, we are furnishing the details of the compliance.

Thanking you,

Yours faithfully


Managing Director
Shri H.S.S.K.N., Sankeshwar

COMPLIANCE TO THE ENVIORMENTAL PROVISIONS BY SUGAR AND DISTILLERY INDUSTRY

WASTE WATER MANAGEMENT

No	Compliance	Status of compliance
1	<p>The Boiler blow down and MGF (Multi grade filter) RO-UF rejects from Sugar & Co-gen plant shall be directly taken for recycling (This would reduce the fresh water consumption.)</p> <p>1) Qty of Boiler blow down 2) Qty of MGF rejects</p>	<p>True. We have recycled the Boiler blow down and MGF rejects from Cogeneration unit into spray pond as make up water after equalization and neutralization.</p> <p>- 43m³/day - 62 m³/day</p>
2	<p>The cooling tower blow down of co-gen plant shall be utilized in sub merged belt conveyor and for fly ash quenching. (This would prevent the discharge of effluents into the ETP).</p> <p>1) Qty of Cooling Tower blow down</p>	<p>The Cogeneration plant cooling Tower blow down is taken into the spray pond as make up water.</p> <p>- 56m³/day</p>
3	<p>The treated waste water generated from sugar and Co-generation plant, cooling tower, shall be used on land for irrigation.</p> <p>1) Treated waste water generation</p>	<p>The treated waste water generated from sugar and cogeneration plant, cooling tower are utilized on land for irrigation</p> <p>-1600m³/day</p>
4	<p>No new bore wells shall be dug within the premises.</p>	<p>We have not dug any new bore-well in our factory premises.</p>
5	<p>Whether the Controlled Land application of treated effluent is adopted for utilizing the treated water for irrigation.</p>	<p>We have been following controlled land application for irrigation at a rate of 100-150cum per hectare per day.</p>
6	<p>Furnish the comprehensive irrigation Management plan including the following. Areas to be covered under Irrigation by using treated water in Acres</p>	<p>We are enclosing irrigation management plan along with the signatures of Farmers and the land details.</p>
	<p>Details like Survey Numbers of Land and their area in acres to be covered in the treated water utilization.</p>	
	<p>Written agreement with the farmers to use the treated water in their land for irrigation scheme with extent of land in acres (to be attached separately)</p>	

No	Compliance	Status of compliance
	<p>The quantity of treated effluent to be used in different periods of the year and crop wise utilization.</p> <p>1) Qty of treated waste water used in different crops</p> <p>a) Sugar Cane</p> <p>b) Maize</p> <p>c) Jowar</p>	<p>The treated effluent 1600 cum per day is utilized on 102 acres of land from the start of crushing season to the end of crushing season is applied on various crops like Sugar Cane, Maize, Jowar etc.</p> <p>- 1300m³/day -86 Acres</p> <p>- 200m³/day – 10 Acres</p> <p>-100m³/day. - 6 Acres</p>
	<p>The treated effluent distribution system and arrangement for low/no demand period.</p>	<p>The treated effluent is stored in 15 days storage tank.</p>
	<p>Agronomic plan for effective utilization of land.</p>	<p>The Agronomic plan shall be prepared and got approved by the competent authority.</p>
7	<p>To construct impervious lined storage tank of minimum 15 days capacity for storage of treated effluent during low/no demand, based on the irrigation Management Plan.</p> <p>1) Storage capacity</p>	<p>We have constructed 15 days storage capacity.</p> <p>-24000m³</p>
8	<p>The Physico-chemical characteristics of the soil under irrigation with treated effluent should be monitored twice in a year to assess conditions in summer and post monsoon seasons. In order to determine the deterioration of soil quality. The consolidated analysis results shall be submitted to the Board regularly.</p>	<p>We shall monitor regularly the soil under irrigation of waste water twice in a year and submit to the Board office.</p>
9	<p>The industry shall monitor the ground water quality twice in a year including the waste water parameters.</p>	<p>The ground water quality as well as waste water parameters regularly twice in a year.</p>
10	<p>To treat sugar mill condensate in Sugar mill Condensate Polishing Unit and the treated effluent shall be reused in Co-generation cooling tower make up water and in distillery section. Whether the CPU is installed?.</p>	<p>We are installing Condensate Polishing Unit and treated effluent shall be re-used in Cogeneration Cooling Tower as well as in distillery section as make-up water. CPU unit is almost 60% Completed</p>

FOR DISTILLERY.

No	Compliance	Status of compliance
1	The industry shall install the Evaporation system to evaporate the Spent wash generated from distillery. Minimum of 95% of Water to be recycled. Or The spent wash shall be concentrated and incinerated and particulate matter shall be controlled through electro static precipitator.	The evaporation system for spent wash shall be installed and condensate 95% of water shall be recycled.
2	The distillery condensate shall be treated in distillery Condensate Polishing Unit and the treated effluent shall be reused in Co-generation cooling tower make up water and in distillery section.	The Condensate polishing unit shall be installed for Distillery unit and the condensate shall be recycle as make up water in cooling tower and Fermenter, molassis storage tanks cooling water.
3	All the lagoons shall be made impervious.	All the lagoons are made impervious.
4	The applicant shall not store the spent wash in unlined lagoons or pass on land or into water body (stream, lake, nala etc) to avoid surface or sub-surface water pollution.	Spent wash is not stored in un-lined lagoons, on land or into inland water bodies.
5	The Applicant shall obtain permission from the Board to dispose-off the spoiled molasses and shall be disposed-off in the manner as specified by the Board in the permission letter.	We shall take the permission from the Board for the spoiled molasses if any and disposed off in the manner specified by the Board.

THE MANAGEMENT OF COMPOST YARD.

No	Compliance	Status of compliance
1	The Applicant shall provide garland canal and leachate pit for compost yards and the stored leachate shall be treated in the ETP/used back for composting.	Garland canal and leachate pit are provided for compost yard and collected leachate is recycled back for composing.
2	Dyke wall shall be provided for the molasses storage tanks.	Dyke wall is provided all molasses storage tanks.
3	The applicant shall provide Piezometers all round the compost yard.	Pizometers are provided around the compost yard and regularly monitored.
4	The press-mud, boiler ash, yeast sludge, lime sludge and ETP sludge shall be mixed to convert the same to compost and shall be given as manure to member farmers as per KSPCB norms.	The Press-mud, boiler ash, yeast sludge, lime sludge and ETP sludge are mixed together and converted to Compost and sold to the Farmers as per KSPCB norms.

5	<p>Monthly utilization of raw material for composting</p> <p>1) Press mud</p> <p>2) Spent wash</p>	<p>- 8750 MT</p> <p>- 21875m³</p>
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MONITORING AND REPORTING.

No	Compliance	Status of compliance
1	Shall get the samples of bio-methanated spent wash and analysed once in 15 days for pH, BOD, COD, EC and total volatile solids.	Not applicable, as we do not have bio-digester for spent wash treatment.
2	Monthly extract of daily product manufactured, no.of days of operation & effluent discharge shall be submitted duly certified by Excise Superintendent shall be submitted to the Board.	Monthly extract of daily product and number of days of operation of the distillery shall be submitted from the excise superintendent certification.
3	The industry shall analyse finished compost from each cycle for the parameters moisture, organic carbon, P, N, K, and C/N ratio.	Compost shall be analyzed for finished compost from each cycle the parameters of moisture organic carbon, P, N, K, and C/N ratio and the reports shall be submitted to the Board.
4	The spent wash stored in the lagoons shall be analyzed every 15 days for pH, EC, FDS, Na, K, Ca, Mg, Cl, SO ₄ , PO ₄ , BOD, and TKN.	The spent wash stored in the lagoons shall be analyzed for pH, EC, FDS, Na, K, Ca, Mg, Cl, SO ₄ , PO ₄ , BOD, and TKN and report shall be submitted to the Board once in 15 days.
5	The monitoring of soil, effluent and ground water and crop yield shall be as per MoU signed with UAS.	We have not yet signed the MoU with UAS and shall get analyzed by accredited laboratory.
6	The Distillery should maintain data regarding quantity of spent wash used for OTCLA and details of land (Sy.No. Village name etc.) where spent wash is applied on land.	Not applicable.
7	The industry shall provide online effluent monitoring system and the data shall be connected to CPCB and SPCB server as per CPCB directions.	Already provided.
8	The industry shall provide online emission monitoring system and the data shall be connected to CPCB and SPCB server as per CPCB directions.	Already provided.

No	Compliance	Status of compliance
9	Distilleries shall provide continuous Ambient Air quality monitoring (CAAQM) stations and the results shall be connected to CPCB and SPCB server as per CPCB directions.	Request not to impose the condition of Continuous Ambient Air quality monitoring for distillery unit as emissions are minor as compare to other industry such as fertilizer, cement and chemical industry etc.

GENERAL CONDITIONS.

No	Compliance	Status of compliance
1	The applicant shall construct the wind breaking walls to prevent the spread of fugitive emission before the start of next crushing seasons.	Already provided.
2	Industry shall metal all the internal roads to control the fugitive emissions due to vehicular movement.	Shall be undertaken in a phased manner.
3	The applicant shall carryout intensive plantation/ thick vegetation all round to minimize air & noise pollution the action taken report shall be submitted to the Board immediately.	Green belt shall be developed in 33% of total area and action plan shall be submitted shortly
4	The Industry shall provide rain water harvesting system within the premises to conserve the water source.	We have completed for main factory building and office building work shall be taken up during this financial year.
5	The Applicant shall always ensure that the bagasse & boiler ash shall not be stored in an open land, which may cause dust nuisance in the surrounding area during wind blow.	Bagasse is stored near Boiler for daily consumption fly ash is not stored and utilizing in composting on a daily basis.
6	The industry shall provide separate energy meter to the ETP and flow meter to inlet and outlet of ETP.	The energy meter is provided in ETP and flow meter is provided at outlet as per CPCB/SPCB norms.


Managing Director
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DATA FURNISHED FOR SUGAR & DISTILLERY INDUSTRY

Sl.No.	Particulars	Per day	Remarks
1	Consumption of Fresh water	100 cum	It is estimated that for every 1000T of cane crushed. 100 KL of water is consumed.
2	Source of water	Hiranyakeshi River	For Borewells, permission is required to be obtained from the state Ground water authority.
3	Total Waste water generated	800 cum	It is estimated that for every 1000T of cane crushed . 650 T of waste water is generated from the Juice.
4	Molasses produced	320 Ton	It is estimated that for every 1000T of cane crushed . 45 T of Molasses is produced.
5	Press-mud generated	320 Ton	It is estimated that for every 1000T of cane crushed. 35T of Press-mud is generated
6	Bagasse generated	2240 Ton	It is estimated that for every 1000T of cane crushed. 300 T of Bagasse is generated
7	Ash generated of Bagasse used	33.6 Ton	It is estimated that for every 1000T of cane crushed. 2.25T of Ash is generated from the Bagasse used.


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