



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

“ಪರಿಸರಭವನ”, 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ.49, ಚರ್ಚ್‌ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

No: PCB/358/ HPI/2015-16/ **03-1990** /By RPAD/

Date: **29 JAN 2016**

To,
The Director,
M/s. Sangamnath Sugars Ltd.,
Sy. No. 219, 221, 221/1A, 221/1B, 222/2, 223/1,
223/2, 224/3, 224/4, 224/5 BK Yaragal Village,
Sindagi Taluk, Vijayapura District.

DEFERRED

Sir,

Sub: Establishment of New Industry to manufacture white crystal sugar with Sugar cane crushing capacity of 3500 TCD and Co-generation power plant of 14 MW at Sy. No. 219, 221, 221/1A, 221/1B, 222/2, 223/1, 223/2, 224/3, 224/4, 224/5 BK Yaragal Village, Sindagi Taluk, Vijayapura District by **M/s. Sangamnath Sugars Ltd-reg**

- Ref: 1. Consent for establishment (CFE) application filed by the industry at Regional Office, Vijayapur on 07.12.2015. (Reg-102805)
2. Inspection of the industry by the Regional Officer, Vijayapur on 08.12.2015.
3. Proceeding of the Consent Committee Meeting (CCM) held on 21.12.2015.

With reference to the above, the Board hereby accords consent for establishment under the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981, for Establishment of New Industry to manufacture white crystal sugar with Sugar cane crushing capacity of 3500 TCD and Co-generation power plant of 14 MW at Sy. No. 219, 221, 221/1A, 221/1B, 222/2, 223/1, 223/2, 224/3, 224/4, 224/5 BK Yaragal Village, Sindagi Taluk, Vijayapura District by **M/s. Sangamnath Sugars Ltd**, subject to the following conditions;

1. This consent for establishment shall be valid for a period of Five Years from the date of issue of this order.
2. The applicant shall not undertake expansion/ diversification without the prior consent of the Board.
3. The applicant shall obtain necessary license/ clearance from other relevant agencies before taking up construction.

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4. The applicant shall obtain environmental clearances from the concerned authority in case the sugar cane crushing capacity exceeds 5000 TCD and/or cogeneration 15 MW and above.

I. WATER CONSUMPTION:

1. The total fresh water consumption & discharge shall be as indicated below;

Sl.No.	Purpose	Water Consumption KLD	Waste water generation in KLD
1	Domestic	30	24
2	Process/washing	1064	280
3	Cooling water	842	105
4	Boiler makeup	90	27
5	Laboratory	5	5
6	Monthly wash	15	15
7	Others	80	48
	Total	2126	504

2. Total water requirement shall be met from Doddahalla natural stream which is situated at a distance of 4.5 Kilo meters from the proposed project site after obtaining requisite permission for the same from the concerned authorities.
3. There shall be no bypass or discharge of effluents either within or outside the factory premises under any circumstances.

II. WATER POLLUTION CONTROL:

1. The domestic effluent shall not exceed 24 KLD. The domestic wastewater shall be treated in septic tank with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be designed as per IS 2470 Part – I and Part – II.
2. Trade effluent generation from the proposed activity shall not exceed 480 KLD. The trade effluent generated from the sugar plant and Cogeneration plant shall be treated in the Effluent treatment plant (ETP) comprising of following units;
 - Bar Screen Chamber- 2.0m x 1.45m x 1.0m,
 - Oil & grease trap- 8.0m x 3.0mx 1.0m,
 - Equalization tank- 9 m x 8 m x 3.5m,
 - Up Flow Anaerobic sludge blanket reactor – 9.5m dia x 6.0m,
 - Extended Aeration tank- 11.63 m x 11.6 m x 4.0+ 0.5 m FB,
 - Secondary Clarifier- 10.3m dia x 3.0m,
 - Multi Grade filter feed tank - 1.75m x 3.0m x 2.0m,
 - Sludge Drying pits – 5.0m x 5.0m x 3.0 m + 0.6 m FB
 - Cleaning day sump- 12m x 10m x 3.6m + 0.6 m FB,
5. The treated effluents from the ETP shall comply with the standards stipulated in Annexure-I and shall be used on industry own land for irrigation/ gardening/ green belt development.
6. The applicant shall provide flow meter separately for the sugar plant and Co-generation power plant. The industry shall provide separate drainage system for storm water management.

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7. The industry shall provide monthly wash tank for sugar plant of adequate capacity and effluent shall be taken for treatment in the ETP.
8. The applicant shall provide lined drains to convey trade effluents to ETP for further treatment and disposal. Storm water shall not allowed to mix these effluents.
9. If the treatment plants do not achieve the effluent standards stipulated in Annexure-I or if it is found to be inadequate, then the industry shall have to modify the units so as to meet the standards, with prior consent of the Board.
10. The discharge from the premises of the applicant shall pass through terminal manhole/ manholes where from the Board shall be free to collect samples at any time in accordance with the provisions of the Act or Rules made there under
11. There shall be no bypass or discharge of effluents either within or outside the factory premises under any circumstances.
12. The applicant shall ensure continuous and effective operation and maintenance of pollution control systems.
13. The applicant shall regularly monitor the ground water of the wells situated in agricultural fields where treated trade effluent is used for irrigation for water quality parameters and submit report.
14. The ETP site and the entire premises shall be always kept clean. The ETP site, inspection chamber, Outlets, flow measuring points should be made easily approachable to the inspecting officers.
15. The applicant shall ensure that the waste water generation from sugar unit is less than or equal to 100 lts/ ton of cane crushed.
16. The applicant shall provide adequate storage capacity for treated effluent to take care of no demand for irrigation (15 days holding capacity). The storage tanks shall be impervious.
17. The industry should provide alternate power supply to the ETP or its continuous operation.
18. The factory authorities shall display the approved flow sheet in the ETP area on a board along with discharge standards stipulated in the consent order.
19. The applicant shall display the treated effluent parameters, as per the latest analysis report of the treated trade effluent, at the ETP location. The applicant shall also paint the name and capacity of each unit of ETP
20. The applicant shall ensure that the operation of treated effluent treatment plant shall be started at least one month before starting of cane crushing to achieve desired MLSS so as to meet the prescribed standards from day one of the operation of mill.


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21. The applicant shall discharge the treated effluents only to the place mentioned in the Consent order. The application of treated effluent for agriculture shall be controlled so as to avoid either flooding of land or ground water contamination.
22. The applicant shall furnish the ownership of land to the Board within 15 days with the location map of irrigation land showing the Sy. Nos. and a list of land with Sy. Nos. if applied on private agricultural lands with prior approval from the land owners.
23. The applicant shall monitor the treated effluent through on line continuous effluent quality monitoring system at the outlet of sugar plant ETP for the measurement of parameters flow, pH, COD, BOD, TSS and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers
24. Once in a month by 5th, the max, min & Avg values and also the number of time, the exigencies recorded shall be submitted to R.O

I. WATER CESS:

The industry shall comply with the provisions of Water (Prevention and Control of Pollution) Cess Act, 1977, by installing water meters, filing water cess returns in Form-I and other provisions as contained in the said Water (Prevention and Control of Pollution) Cess Act, 1977 and 2003.

II. AIR POLLUTION CONTROL:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/ chimneys mentioned in Annexure-II, where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under.
2. The industry shall upgrade/ modify/ replace the control equipment's if they are found inadequate to meet the standards stipulated. Prior permission of the Board shall be obtained for the same.
3. The industry shall provide port holes for sampling the emissions and access platforms for carrying out stack sampling and provide electrical outlet points and other arrangements for all stacks/chimneys and other sources of emissions so as to collect samples of emissions by the Board or the applicant at any time in accordance with the provisions of the Act and Rules made therein.
4. The applicant shall install and maintain the on line continuous stack emission monitoring system for measurement of emissions parameter like PM and monitoring data shall be connected & up loaded to KSPCB and CPCB's servers.

III. SOLID WASTE:

The solid waste collected in the factory premises as sweepings, wastage from packaging, empty containers, residue, sludge including those from air pollution control equipments shall be disposed off scientifically to the satisfaction of the Board, so as not to cause fugitive emissions, dust problems or water pollution problems through leaching etc., of any kind.


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Sl. No.	Type of wastes	Quantity in TPD	Mode of disposal approved
1	Bagasse	674	Used as fuel to boiler
2	Press mud	140	Used in bio-composting/land filling
3	Boiler ash	14.4	
4	Molasses	140	Sold to distillery
5	ETP sludge	0.03	Used for composting and re-use on land for development of greenery & also handed over to farmers for using as manure

IV. NOISE POLLUTION CONTROL:

1. The industry shall ensure that the ambient noise levels within its premises shall not exceed the limits i.e. 75 dB (A) Leq during day time and 70 dB (A) Leq during night time as specified in the Environment (Protection) Rules.

V. GENERAL:

1. The industry shall arrange for alternate power supply to run and operate the essential units of effluent treatment plant/ control equipments, in the event of breakdown of regular supply from Electricity Board. The industry shall provide separate energy meters to the water and air pollution control systems wherever appropriate.
2. The industry shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
3. The industry shall not commission the proposed plant for trial or regular production unless necessary water & air pollution control equipments are installed to the satisfaction of the Board. The industry shall ensure that the treatment plant and control equipments are completed and commissioned simultaneously along with construction of the factory and erection of machinery.
4. The industry shall not change or alter (a) raw materials or manufacturing process, (b) change the products or product mix (c) the quality, quantity or rate of discharge/emissions and (d) install/ replace/ alter the water or air pollution control equipments without the prior approval of the Board.
5. The industry shall immediately report to the Board of any accident or unforeseen act or event resulting in release of discharge of effluents or emissions or solid wastes etc. in excess of the standards stipulated. And the industry shall immediately take appropriate corrective and preventive actions under intimation.
6. The industry is liable to reinstate or restore, damaged or destroyed elements of environment at his cost, failing which, the applicant/ occupier as the case may be shall be liable to pay the entire cost of remediation or restoration in advance an amount equal to the cost estimated by Competent Agency or Committee.
7. The applicant shall comply with all the Rules and guidelines issued from time to time.

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8. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
9. This CFE does not give any right to the Party/ Project Authority/ Industry to forgo any legal requirement that is necessary for setting / operation of the plant.
10. The industry shall furnish point wise compliance to the conditions given under this consent for establishment within 30 days.

Please note that this is only consent for establishment issued to you to proceed with the formalities for establishment of the industry and does not give any right to proceed with trial/ regular production. For this purpose, separate consent of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained by remitting prescribed consent fee. The application for consent has to be made 45 days in advance of commissioning for trial production of the plant.

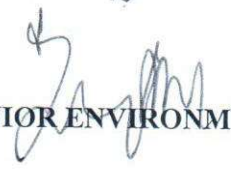
The receipt of this letter may please be acknowledged.

FOR AND ON BEHALF OF
KARNATAKA STATE POLLUTION CONTROL BOARD

Sd/-
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Copy to;

1. The Senior Environmental Officer, Dharwad for information.
2. The Environmental Officer, KSPCB, Regional Office, Vijayapur for information.
3. Master file
- ✓ 4. Case file.


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ANNEXURE – I

Sl. No.	Parameters	Tolerance limits.
1.	Colour and Odour.	See Note.
2.	Suspended Solids mg/l.Max.	100
3.	pH value.	6 to 8.5
4.	Oil and Grease mg/l. Max.	10
5.	Bio-chemical Oxygen Demand, mg/l. (3 days at 27°C) max.	100

Note: All efforts should be made to remove colour and unpleasant odour as far as practicable.

TABLE

HYDRAULIC LOADING APPLICABLE FOR DIFFERENT SOILS

Sl. No.	Soil Texture.	Loading rate in M ³ /Hec/day.
1.	Sandy	225 to 280
2.	Sandy Loam.	170 to 225
3.	Loam.	110 to 170
4.	Clay Loam.	055 to 110
5.	Clayey.	035 to 055


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ANNEXURE – II

Chimney	Chimney Attached to	Minimum Chimney Height to be Provided above ground level (AGL)/ roof level (ARL) in m	Rate of emission Nm ³ /Hr.	Constituents to be controlled in the emission.	Tolerance limits Mg/ Nm ³	Air Pollution Control equipment to be installed, in addition to Chimney height as per Col (3)
1	2	3	4	5	6	7
1.	85TPH boiler (Bagasse)	54 M AGL	-	PM	-	Electrostatic precipitator
2	1000 KVA DG set	30 M AGL (individual chimney)	-	NO _x NMHC	710 ppmv 100	Acoustic enclosure
3	1000 KVA DG set		-	PM CO	75 150	

Note: The Noise level shall not exceed 75 dB(A) leq. During day time (6 AM to 9 PM) and 70 dB Emission limits in (g/Kw-hr)


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