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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ.49, ಚರ್ಚ್‌ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
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/By RPAD/

(This document contains 8 pages including annexure)

Combined Consent order No.PCB/ 276 /HPI/2012/ 1016

Dated: 09 OCT 2013

To,
The Director,
M/s Om Sugars Ltd., BC-132,
Lodge Road, Bobarves Camp,
Belgaum

Sir,

Sub: Consent for Establishment (CFE) to establish of a new sugar unit of sugar cane crushing capacity 2500 TCD and Co-generation plant of 14 MW at Sy No. 2/1, 2/2, 2/3, 3/2, 3/3A, 4/1A, 4/1B, 4/1K, 4/2A/1, 4/2B, 4/3A/1, 4/3A/2, 4/3B, 6A/2B, 4/3A and 37 of Jainapur village, and 190/5B/2 and 190/2A of Thoranagahalli village, Chikkodi Taluk, Belgaum Dist. by M/s. Om Sugars Ltd.- reg.,

- Ref:**
1. Consent for Establishment (CFE) application received at Regional Office, Belgaum on 13-12-2011
 2. Inspection of the site by Regional Officer, Belgaum on 11-01-2012
 3. EC issued to the site vide No. CI 39 SPI 2011, Bangalore dated 23-02-2011
 4. Proceedings of the consent committee meeting held on 25-02-2012
 5. This office letter No. KSPCB/276/HPI/2011-12/193 dated 16-04-2012
 6. Reply furnished to the said letter vide letter No. Nil dated 20-04-2013
 7. Proceedings of the consent committee meeting held on 06-06-2013.
 8. B.O letter No. PCB/276/HPI/2012/3042 dated 07-08-2013
 9. Reply furnished by the industry vide letter No. nil dated 23-09-2013

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With reference to the above, it is to be informed that, 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 Sugar unit of sugar cane crushing capacity 2500 TCD and Co-generation plant of 14 MW at Sy No. 2/1, 2/2, 2/3, 3/2, 3/3A, 4/1A, 4/1B, 4/1K, 4/2A/1, 4/2B, 4/3A/1, 4/3A/2, 4/3B, 6A/2B, 4/3A and 37 of Jainapur village, and 190/5B/2 and 190/2A of Thoranagahalli village, Chikkodi Taluk, Belgaum District by M/s. Om 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.

SENIOR ENVIRONMENTAL OFFICER

3. The applicant shall obtain necessary license/ clearance from other relevant agencies before taking up construction.

4. The Industry shall comply with all the conditions/ guidelines mentioned in the Corporate Responsibilities for Environment Protection (CREP), 2003
5. The applicant shall arrange services like housing facility, water supply, sanitation facilities on a temporary basis at construction site and same shall be maintained without any adverse impact on the environment/water body during construction phase.
6. The applicant shall control the movement of vehicles carrying construction materials in order to avoid noise/dust particles pollution in the surrounding.

I. WATER CONSUMPTION AND WASTE WATER DISCHARGE DETAILS:

1. The total water requirement and the total quantity of wastewater generation shall be as below;

Sl. No.	Source	Consumption in KLPD	Discharge in KLPD
1	Domestic use (Toilet, Canteen)	12	10
2	Industrial Purpose	562(Fresh water- 212 Condensate water-350)	300

2(a) The trade effluent generated from Sugar & cogen plant shall be treated in the effluent treatment plant (ETP) as per the flow sheet submitted by the factory authorities, comprising of the following units.

1. Screen Chamber (1 No's)
2. Oil Separator
3. Monthly wash storage tank
4. Neutralizer/sump
5. Lime preparation tank
6. Nutrient and culture vessels
7. Equalization tank
8. Primary clarifier
9. Aeration tank-1
10. Secondary clarifier-1
9. Aeration tank-2
8. secondary Clarifier-2
9. Collection sump
10. Cleaning day sump
11. Sludge drying beds

b) Effluent from co-gen plant shall be neutralized, settled in clarifier & reused and excess shall be applied on land for irrigation.

2. The industry shall provide impervious holding tank of adequate capacity for storing monthly wash water/and the stored effluent shall be treated in the ETP.
3. The treated effluent shall be used for greenbelt development/ irrigation and shall meet the standards as per **Annexure-I**. The industry submit irrigation management plan within 30 days for using treated effluent.
4. The applicant shall provide adequate storage facility (15 days) for the storage of treated trade effluents to take care of no demand for irrigation. The storage tank shall be impervious.

K. R. Gupta 05/12/13
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5. Industry has to provide a separate drainage system for storm water management & there shall not be mixing of storm water with treated effluent.
6. The applicant shall provide flow meters for measuring inflow & outflow of effluent treatment plant (ETP) and provide separate energy meter for ETP and record readings in a log book for verification of inspecting Officers.
7. The ETP units should be made easily approachable for the inspecting Officers.
8. 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.
9. The applicant shall paint the name and capacity of each unit of ETP.
10. The applicant shall provide lined and closed drains to convey trade effluents to ETP for further treatment and disposal.
11. The industry shall treat the domestic wastewater from the factory in septic tank with soak pit. No overflow from the soak pit allowed. The septic tank and soak pit shall be designed as per IS 2470 Part – I and Part – II.
12. The industry shall not store any effluent in Katcha lagoons under any circumstances.

II. 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.

IV. 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 applicant shall maintain port hole, access platforms for carrying out stack sampling with electrical outlet points for sampling the emissions from port holes in all the stacks, as per the guidelines specified in **Annexure-III** to facilitate monitoring of emissions.
3. The industry shall ensure that the ambient air quality in its premises will confirm to the National Ambient Air Quality Standards specified in Environment (Protection) Rules. The applicant shall take all necessary efforts to control odour nuisance caused due to emissions from the industry.
4. The industry shall upgrade/ modify/ replace the control equipments if they are found inadequate to meet the standards stipulated. Prior permission of the Board shall be obtained for the same.
5. The industry should take necessary measures to control odor nuisance.

V. NOISE POLLUTION CONTROL:

The industry shall ensure that the ambient noise levels within its premises will 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.


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VI. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The industry shall collect, treat and dispose-off all solid waste generated from the process other than wastes covered under the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008 in such manner so as not to cause environmental pollution.
2. The factory shall dispose-off all solid waste generated from the process and from the effluent treatment plant in a scientific manner without causing underground and surface water pollution directly or indirectly. The solid waste shall be disposed-off without causing eye sore to the public.
3. Industry should store the press mud, Bagasse & ash in such manner before disposal so as not to cause any pollution.
4. The details of solid waste generation and its disposal shall be as below.

Solid waste	Quantity	Mode of disposal
Press Mud	55 TPD	Shall be disposed to farmers
Wet Boiler Ash	12 TPD	
Dry fly ash	8 TPD	
ETP Sludge	-	Shall be used as manure for green belt development

VII. MOLASSES STORAGE :

1. (a) The applicant shall store the molasses only in steel tanks covered with proper roofing. The tanks shall be provided with dyke walls with adequate height all around.

(b) Adequate number of steel tank shall be provided for molasses containment. Containment of molasses in earthen pits is not allowed.
2. The applicant shall obtain permission from the Board to dispose-off the spoiled molasses and it shall be disposed-off in a manner as laid down by the Board.

VIII. HAZARDOUS WASTE (MANAGEMENT, HANDLING & TRANSBOUNDARY MOVEMENT) RULES, 2008:

1. The applicant shall comply with the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.
2. The quantity of hazardous waste shall not exceed the quantities mentioned in the authorization to be issued under Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.

IX. GENERAL:

1. The industry shall arrange for alternate power supply to run and operate the essential units of effluent treatment plant/ control equipments, in event of break down 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.


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3. The industry shall not commission the proposed plant for trial or regular production unless necessary 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 machineries.
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. A well designed rainwater harvesting shall be put in place. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months and details shall be furnished. Status of implementation shall be submitted to the Regional Office of the Board.
6. 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.
7. 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.
8. The applicant shall comply with all the Rules and guidelines issued from time to time.
9. The Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions.
10. This CFE does not give any right to the Party/ Project Authority/ Industry to forego any legal requirement that is necessary for setting/ operation of the plant.
11. The industry shall furnish point-wise compliance to the conditions given under this consent for establishment within 30 days.
12. The applicant shall display Consent orders, Environmental Clearance, Environmental Statement in the website of the industry and update regularly.

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 consents of the Board for discharge of liquid effluent and the emissions to the air shall have to be obtained before commissioning by remitting prescribed consent fee. The application for consent for operation has to be made 45 days in advance of commissioning for trial production of the plant. Issue of consent will be considered only after completion of effluent treatment plant for domestic and industrial effluent and installing air pollution control equipments as required.

The receipt of this letter may please be acknowledged.

Encl.: Annexure-I to III.

For and On behalf of
Karnataka State Pollution Control Board


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Note:

1. *It is advised to provide all necessary healthcare facilities to employees & local people and shall carry out routine health survey among employees & local people and tests like Spirometry, Pulseoxymetry, Lung function test, etc.*
2. *It is advised to regularly check the health of workers exposed to very high noise levels and suitable measures to avoid any ill effects shall be taken.*
3. *It is advised to take all safety measures to avoid any injury to its employees and local people.*
4. *It is advised to take Environmental clearance from Department of Ecology and Environment, Government of Karnataka*


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ANNEXURE - I

**STANDARDS FOR DISCHARGE OF TREATED TRADE EFFLUENT ON LAND
FOR GARDENING/ IRRIGATION**

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

ANNEXURE - II

Chim. No.	Chimney attached to	Minimum chimney height to be provided above ground level/ above roof level	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)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	2	3			4	7	8
1	80 MT/Hr water tube boiler (Bagasse fired)	75 M AGL with ESP	-	PM	150	ESP	Before commissioning.
2	1250 KVA D.G. Set	30 meters above ground level with acoustic enclosures	-	-	-	Acoustic Enclosures	Before commissioning.



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ANNEXURE - III

LOCATION OF SAMPLING PORTHOLES, THE PLATFORMS, THE ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 3". Arrangements should be made so that the porthole is closed firmly during the period when it is not used for sampling.
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point off 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.

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