



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 10 pages including annexure)

Combined Consent order No: PCB/113/HP1/2015-16/ 2233

Date: 17 MAR 2016

Consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act, 1974 and emissions under the Air (Prevention and Control of Pollution) Act, 1981.

- Ref:**
1. Application filed by the industry for consent for operation received at Regional Office, Bagalkot on 12.01.2016 (Reg. No. 104589).
 2. Inspection of the Industry by R.O, Bagalkot on 31.12.2015.
 3. Proceedings of Consent Committee Meeting held on 05.02.2016.
 4. Industry letter No: JSL/ADM/KSPCB/2015-16/3827 dt: 24.12.2015.
 5. RO-Bagalkot letter No: KSPCB/EO(BGK)/17cat/IR/2015-16/3232 dt: 13.01.2016.

Consent is hereby granted under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention and Control of Pollution) Act, 1981 (herein after referred as the Water Act and the Air Act respectively) and the Rules and Orders made there under and subject to the terms and conditions as detailed in the schedule annexed to this order.

Consent is granted to **“The Managing Director, M/s. Jamkhandi Sugars Limited, Sy. No: 66, 72, 73, 74, 78, 79, 80 & 88 Hirepadasalgi Village, Naganur Post- 587 301, Jamakhandi Taluk, Bagalkot District”**, authorizing him to operate the Sugar plant at above said premises and to make discharge of effluents and emissions from the premises as mentioned above.

This consent is granted to the industry on receipt of ₹ 2,00,000/- under the Water and Air Acts based on investment of ₹ 261.57 crores as per gross block assets details as on 31-04-2014, submitted by the industry.

Discharge of effluents under the Water Act:

Sl. No.	Description	Permitted Quantity of discharge	Stipulated Standards and place of discharge
1	Trade effluent Sugar Co-generation	500 KLD 646 KLD	Treated trade effluent conforming to the standards specified in Annexure-I , shall be used on industry own land for irrigation.
2	Domestic effluent	27 KLD	Septic tank & Soak pit

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Discharge of air emissions under the Air Act:

Sl. No.	Description of chimney/outlet	Limits specified (refer schedule)
1	90 TPH Boiler (bagasse fired)	As per Annexure-II
2	70 TPH Boiler (bagasse fired)	
3	725 KVA D.G. Set	
4	500 KVA D.G. Set	
5	320 KVA D.G. Set	

The consent is valid for the manufacture of:

Sl. No.	Name of the Product	Quantity Consented Max.
1.	White Crystal Sugar with Sugar Cane Crushing capacity of	5000 TCD
2.	Co-generation	27 MW

THIS CONSENT IS VALID FOR THE PERIOD FROM 01.07.2015 TO 30.06.2016.

Encl: Schedule, Annexure-I & II.

For and on behalf of the
Karnataka State Pollution Control Board


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To,
The Managing Director,
M/s. Jamkhandi Sugar Limited,
Hirepadasalgi Village, Naganur Post-587301,
Jamakhandi Taluk, Bagalkot District.

SCHEDULE
TERMS AND CONDITIONS

(To accompany consent No: PCB/113/HP1/2015-16/

Dated:)

I. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The discharge from the premises of the applicant shall pass through the terminal manhole/ manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act or Rules made there under.
2. The daily quantity of effluent discharge shall not exceed the limits and shall not contain the constituents in excess of the tolerance limits laid down as indicated in the table below. The applicant shall monitor the quality of effluents for the parameters stipulated as per the frequency indicated.

Sl. No	Description of the effluents	Daily quantity of discharge in KL	Tolerance Limits	Frequency of monitoring
1	2	3	4	5
1	Trade effluent -Sugar -Co-generation	500 KLD 646 KLD	Please refer Annexure-I	Once in 15 days.
2	Domestic effluent	27 KLD	Septic tanks and soak pits	-

3. The applicant shall ensure that the waste water generation is always less than or equal to 100 lts/ton of cane crushed.
4. The applicant shall ensure that the operation of 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 as per Annexure-I from day one of the operation of mill. The application of treated effluent for agriculture shall be controlled so as to avoid either flooding of land or ground water contamination.
5. The applicant shall provide flow meters for measuring inflow & outflow of effluent treatment plant (ETP) and provide separate energy meter for ETP and record hourly readings in a log book for verification of inspecting Officers.
6. The ETP site and the entire premises shall be always kept clean. The ETP site, inspection chambers, Outlets, flow measuring points should be made easily approachable to the inspecting Officers.
7. The industry shall display the approved flow sheet in the ETP area on a board along with discharge standards stipulated in the consent order.
8. The applicant shall display the treated effluent parameters, as per the latest analysis report of the treated trade effluent, at the ETP location.
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 treatment and disposal.
11. The applicant shall provide adequate storage capacity for treated effluent to take care of no demand for irrigation (15 days holding capacity). The storage tank shall be impervious.


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12. The industry should provide alternate power supply to the ETP for its continuous operation.
13. Industry has to provide a separate drainage system for storm water management & there shall not be mixing of storm water with treated effluent.
14. 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.

II. MOLASSES STORAGE

1. (a) The applicant shall store the molasses only in steel tanks covered with proper roofing.
(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.

III. DISCHARGE OF EMISSIONS UNDER THE AIR ACT:

1. The discharge of emissions from the premises of the applicant shall pass through the stacks/ chimneys mentioned in **Annexure-II** to the consent, 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. The stacks/ chimneys heights shall be as per **Annexure-II**.
2. The applicant shall operate the air pollution control equipment as specified in the **Annexure-II**, continuously so as to ensure that the emission does not exceed the limits specified. The operation of the control equipment shall be synchronized with the operation of the emission source.
3. The applicant 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 chimneys/ stacks and other sources of emissions within 30 days from the date of receipt of this consent order so as to collect the sample of emissions by the Board or the applicant at any time in accordance with the provision of the Acts & rules made there under
4. 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.
5. The applicant shall treat and dispose any liquid effluents produced in the course of control of air pollution by scrubbing, conditioning etc., of flue gases in accordance with the provisions of the Water (Prevention and Control of Pollution) Act, 1974. The details of such discharges shall be quantified and monitored immediately after commissioning and details of collection, treatment and disposal shall be furnished to the Board.


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IV. SELF MONITORING AND REPORTING:

1. The applicant shall at his own cost get the treated trade effluent samples collected from the place specified and analyze the same once in a month for the parameters indicated in **Annexure-I** and report submitted once in a month along with the quantity of water used, waste water generated, treated, and discharged, product manufactured, etc., in a compiled statement to the concerned Regional Office.
2. The applicant shall at his own cost get the samples of emissions collected and get them analyzed once a month for the parameters indicated from the sampling port holes provided
3. The applicant shall carryout the ambient air quality monitoring and submits the report to the Regional Office of the Board. The AAQM stations shall be carried out in all the established stations as per the requirement under the National Ambient Air Quality Monitoring Standards stipulated in Environmental (Protection) Rules, 1986. Monitoring shall include the parameters, PM_{2.5}, PM₁₀ sulphur-di-oxide, Nitrogen Oxide The industry shall furnish statistical analysis for annual average of pollutants at all the locations as per Ambient Air Quality standards Notification once in a year.
4. The applicant shall regularly monitor the ground water of the wells situated in agricultural where treated trade effluent is used for irrigation for water quality parameters and submit report.
5. **(a) The applicant shall 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.**
(b) The applicant monitor the treated effluent through on line continuous effluent quality monitoring system at the out let 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 .
(c) 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
6. The applicant shall;
 - a) Submit the monitoring results as under;
 - i) Data monitored as per prescribed schedule shall be submitted to the Regional Office every month.
 - ii) A compiled data of all monitoring conducted as per schedule during the consent period shall be submitted in hard copy along with Consent application

V. ENVIRONMENTAL STATEMENT

The applicant shall submit the Environmental Statement every year for the period ending 31st March in Form V of Rule as per Rule 14 of Environment (Protection) Rule, 1986 on or before 30th September.

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

The applicant shall comply with the Hazardous Waste (Management, Handling & Transboundary Movement) Rules, 2008.


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VII. STORM WATER MANAGEMENT

1. Storm water shall not be allowed to mix the trade and/ or sewage effluent on the up stream of the terminal manholes where the flow measuring devices will be installed.
2. 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.

VIII. SOLID WASTE MANAGEMENT:

Solid waste shall be disposed as follows;

Sl. No.	Type of wastes	Quantity in MT/day	Mode of disposal approved
1	Bagasse	1400	Shall be used as fuel for captive power generation
2	Molasses	200	Shall be sold to distilleries
3	Press mud	200	Shall be mixed with boiler ash and given to farmers as manure
4	Bottom crate ash	25	Shall be mixed with press mud and given to farmers as manure
5	Dry fly ash		

IX. WATER CESS:

The applicant shall provide water meters at all the intake points as under Section (5) of Water Cess Act and shall file the Water Cess returns regularly and also pay the cess assessed with the time stipulated.

X. GENERAL:

1. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
2. This consent for discharging sewage and/ or trade effluents from the factory shall not be taken or construed as the Board's permission to continue to discharge the sewage and/ or trade effluents from the factory into the place (as mentioned in this consent Order) which pollutes the water there-in endangering the life and property of the persons using the said water before, during or after the periods indicated in the Terms and Conditions of this Consent Order
3. The applicant shall not change or alter either the quality or quantity or rate of emission or install/ replace or alter the air pollution control equipment, change in raw material or manufacturing process resulting in change in quality and/ or quantity of emissions without the prior permission of the Board
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.

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5. The applicant shall promptly comply with all orders and instructions issued from time to time by the Board or any other officers of the Board duly authorized in this behalf.
6. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/ effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact
7. The applicant shall not store any raw materials on naked ground. The applicant shall construct impervious dyke walls/tank form for storage tanks constructed above ground level.
8. The applicant shall display flow diagram of the pollution control system at the site.
9. The applicant shall appoint a qualified environmental engineer/ scientist for environment management in the factory and also establish an environmental cell.
10. Applicant shall maintain the Environmental Management System in conformity with ISO 14001:2004 standards.
11. The applicant shall comply with the guidelines under Corporate Responsibilities for Environment Protection (CREP) 2003 issued by Ministry of Environmental Forests and CPCB.
12. An inspection book shall be opened and made available to the Board Officers during their visit to the factory.
13. The applicant shall maintain register recording the ambient air quality, stack monitoring and analysis report of treated effluents. The register shall be open for inspection by the Board Officers at all time.
14. The applicant shall provide alternate power supply sufficient to operate all pollution control equipments utilized by the applicant to maintain compliance with the terms and conditions of this consent.
15. The entire premises shall be always kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
16. The applicant shall display the consent granted in a prominent place for perusal of the inspecting Officers of the Board.
17. The applicant is heirs, legal representatives or assigns shall have no claims what so ever to the continuation or renewal of this consent after expiry of the period of consent.
18. 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.
19. The applicant shall plant and maintain adequate number of trees in and around the industry to arrest the dust emissions escaping into the surrounding area and improve the environment and aesthetic appearance of the industry and the surrounding
20. 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.


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21. The applicant shall make an application for consent at least 120 days before expiry of this consent.
22. Industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Office.

For and on behalf of the
Karnataka State Pollution Control Board


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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 Height to be Provided above ground level (AGL)/ roof level (ARL) in m	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	5	6	7
1.	90 TPH Boiler (bagasse fired)	90 M AGL	Particulate Matter	150	ESP
2.	70 TPH Boiler (bagasse fired)	56 M AGL	Particulate Matter	150	Wet scrubber
3.	725 KVA D.G. Set	20 M AGL	-	-	Acoustic measure
4.	500 KVA D.G. Set	7 M ARL	-	-	Acoustic measure
5.	320 KVA D.G. Set	5 M ARL	-	-	Acoustic measure

Note: The Noise level shall not exceed 75 dB(A) leq. During day time (6 AM to 9 PM) and 70 dB (A) leq. during night time (9 PM to 6 AM).


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