



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-327930
Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

Combined Consent Order No. AW-327930 **PCB ID:** 10042 **Date:** 11/11/2021

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act , 1974 and emission under the Air (Prevention and Control of Pollution) Act , 1981

- Ref: 1. Application filed by the applicant/organization on 11/08/2021
2. Inspection of the Industry/organization/by RO, on 06/08/2021
3. Proceedings of the ECM dated 17/09/2021 , held on 07/09/2021

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions conforming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Jamakhandi Sugars Ltd
Address: 66,72,73,74,78,79,80 & 88, Hirepadasalgi Village, Tq:Jamakhandi, Dt:Bagalkot
Industrial Area: Not In I.A, Hirepadasalgi Village,
Taluk: Jamkhandi, District: Bagalkot

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Domestic Purpose	85.000	76.500	Domestic effluent - Septic tank and soak pit
2	Manufacturing Processes	900.000	1605.000	Sugar & co-gen unit: Fresh Water Req. for DM plant 500 KLD + Co-gen cooling tower 400 KLD (The condensate water generated during the process of sugar cane crushing is 7820 KLD which is treated in CPU and reused), Wastewater generation - process effluent from sugar and lab 1030 KLD (treated in ETP) + co-gen effluent 575 KLD (DM reject 400 KLD + Boiler blow down 100 KLD + CPU treated water 75 KLD)

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.		

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty/Month	Unit
1	co-gen power plant	34.0000	MWH
2	sugar cane crushing	345000.0000	M.T

This consent is valid for the period from 01/07/2021 **to** 30/06/2026

To,
Jamakhandi Sugars Ltd
Hirepadasalgi
Village, Tq:Jamakhandi, Dt:Ba
galkot

COPY TO:

- The Environmental Officer, KSPCB, Regional Office Bagalkote for information and necessary action.
2. Master Register.
3. Case file.



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Consent Fee paid : Rs. 1000000

SCHEDULE

TERMS AND CONDITIONS

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

1. The discharge from the premises of the occupier 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/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standards stipulated by the Board in Annexure-I
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

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. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

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

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.



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E. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

- * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- * A “decibel” is a unit in which noise is measured.
- * “A”, in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- * Leq: It is an energy mean of the noise level over a specified period.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

- The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
- The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
- The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
- The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
- 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.
- The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
- The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
- The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
- The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.



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10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.

NOTE:

The Conditions Nil mentioned in the schedule are not applicable.

Additional Conditions:

1. The occupier shall comply with all the additional terms and conditions stipulated in Annexures I, A & B attached here.
2. This consent order contains 11 pages including Annexures.

Chimney No.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	Boiler	70 TPH boiler	57	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,100,50	BAG	SCR	Before commissioning.
2	D.G. Sets	720 KVA DG Set	20	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,100,50	DIE	AEC	Before commissioning.
3	Boiler	90 TPH boiler	90	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,100,50	BAG	ESP	Before commissioning.
4	Boiler	70 TPH boiler	80	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150,100,50	BAG	ESP	Before commissioning.

Note:

- SCR : Scrubber
AEC : Accoustic Enclosures
ESP : E.S.P



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Note:

1. The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
2. The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.
3. There shall be no smell or odour nuisance from the industry.

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, 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 at least 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 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
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 of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

For and on behalf of the
Karnataka State Pollution Control Board

Signature Not Verified

Digitally signed by
Date: 2021.11.11 13:19:57
+05:30

Annexure-I
Additional Conditions

1. This consent for Operation is valid for a period from 01.07.2021 to 30.06.2026.
2. This CFO is issued for production of Crystal Sugar with Sugar-cane crushing of capacity 11500 TCD and Power generation (Co-gen) of capacity 34 MW.
3. The authorities have paid Rs. 10,00,000/- as Consent fee for 5 years based on the CI of Rs. 419.50 Crores. The applicant shall pay the balance fee, if any, after the final Notification of revised consent fee and as per the affidavit submitted by the industry.
4. The applicant shall comply with all the conditions stipulated in the EC issued for expansion of Sugar Plant from 2500 TCD to 5000 TCD and Co generation plant from 12 MW to 27 MW vide SEIAA: 12:IND:2009, Dated: 29.12.2009.
5. The applicant shall comply with all the conditions stipulated in the EC issued by MoEF & CC for expansion of Sugar Plant from 5000 TCD to 11500 TCD and Co generation plant from 27 MW to 34 MW vide J-11011/300/2007 IA-II (I), Dated: 15.02.2021.
6. The Maximum quantity of water consumption, waste water generation for both domestic and industrial activity and the final treatment & Disposal system shall be as below:

Sl. No	Sources	Water Consumption in KLD	Waste Water Generation in KLD	Method of Treatment Collection and Disposal
I	Domestic purpose	85	76.5	Shall be disposed to Septic tank followed by soak pit.
II	Process effluent from sugar plant and laboratory	-	1030	Shall be treated in the effluent treatment plant of Capacity 1000 KLD and New Bio- Digester of capacity 1000 KLD and treated water shall be used for irrigation purpose after confirming to the standards as stipulated in Annexure A . The treated water shall be passed through Polishing pond and monthly wash water collection tank before discharging on land for Irrigation.
III	Co-generation Plant Effluent	-	575	Shall be treated in Condensate polishing unit of capacity 1900 KLD and the treated effluent shall be recycled for cooling tower makeup.
IV	D.M. Plant (400 KLD)	500		
V	Boiler blow down (100 KLD)	-		
VI	CPU treated water (75KLD)	-		
VII	Co-gen Cooling Tower	400		
Total:		985	1681.5	

7. The applicant shall treat the domestic sewage in Septic tank followed by soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470, Part -I & Part -II.

8. The applicant shall treat the condensate water in the CPU and the treated CPU effluent shall be recycled back to the process completely.
9. The industry shall treat the trade effluent in the ETP of capacity 1000 KLD and the ETP consisting of anaerobic and extended aeration system. Effluent generated from the process is connected to ETP for the treatment and effluent from Co-gen plant, DM Plant, boiler blow-down, CPU treated water and Co-gen Cooling Tower are connected to CPU of capacity 1900 KLD and treated effluent is recycled for cooling tower makeup.
10. The treated trade effluent shall be used for on land for irrigation in inside and as well as outside the plant premises in an area of 18 Acres after confirming to the standards as per **Annexure-A**.
11. **The treated water generated from sugar plant and Co generation Plant, which is used on land for irrigation in agriculture lands in an area of 18 Acres, shall comply with the following conditions, as per CPCB Guidelines;**
 - The industry shall adopt “Controlled Land application of treated effluent, while utilizing the treated water for irrigation.
 - The industry shall engage an agricultural scientist or tie-up with an agricultural university or institute for advice on the utilization or the rate of application of the treated effluent for irrigation considering the agro-climatic conditions.
 - As seasons and the sowing periods of the crops put restrictions on the utilization of treated effluent for irrigation, the industry shall prepare a comprehensive Irrigation Management Plan (IMP), in consultation with the agricultural scientist or agriculture university / institute and submit to SPCBs / PCCs which should verify the same while issuing Consent to the industry.
 - The industry shall prepare Comprehensive Irrigation Management Plan including following:
 - Areas to be covered under irrigation by using treated water.
 - Details like Survey numbers of land and their area to be covered in the treated water utilization.
 - Written agreement with the farmers to use the treated water in their land for irrigation scheme.
 - The quantity of treated effluent to be used in different periods of the year and crop wise utilization.
 - The treated effluent distribution system and arrangement for low/no demand period.
 - Agronomic plan for effective utilization of land.
 - The command area used for utilization of treated effluent shall be as near as possible to the industry in order to facilitate easy monitoring and effective control on the application of treated effluent.
 - The industry shall construct a distribution network of impervious conduits to cover the irrigated area.
 - The industry shall 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.
 - The treated effluent used for Irrigation shall be analyzed regularly, i.e after every Month. The consolidated analysis results shall be submitted to the Board regularly.
 - The treated effluent samples shall be collected at the point from where the effluent is discharged for irrigation.
 - 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.
 - The industry shall monitor the groundwater quality twice in a year.

- The ground water Samples shall be collected from the monitoring well established for sampling purpose only.
 - The sampling points should be uniformly spread in the command area and near effluent storage area.
 - The industry should carry out the analysis of various prescribed effluent/soil/ground water quality parameters from the NABL/EPA/ SPCBs/PCCs recognized/accredited laboratories.
 - Analysis reports regarding compliance of effluent quality standards and status of soil and ground water quality shall be submitted to SPCBs/PCCs twice in a year, in first week of January and July.
 - In case of observation of any deterioration in the soil and groundwater quality parameters during the assessment by agricultural scientist or agricultural university/institute, the application of treated effluent shall be stopped immediately and the industry should inform the SPCB, accordingly.
 - The industry shall be solely responsible for reclaiming the soil and water quality at their cost in the affected area.
12. Industry shall explore the possibility of treating the sewage by providing STP of required capacity as the total domestic sewage generation is 18 KLD. Industry shall submit the details of source of domestic sewage along with plan of action for providing STP.
 13. The applicant shall not dig the new Bore wells within the premises.
 14. The applicant shall take suitable steps so that there will be reduction of the fresh water consumption as well as waste water generation from the industry.
 15. The applicant shall construct the wind breaking walls to prevent any fugitive emission.
 16. The applicant shall not store untreated/partially treated effluents in the unlined lagoons and the entire effluent shall be treated and used for irrigation following the consent conditions.

B. DISCHARGE OF EMISSIONS UNDER THE AIR ACT:-

- 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-B** 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 Fugitive emission near manufacturing area has to be controlled by adopting advance technology. Progress made in this regard shall be furnished.
- 3 If there is going to be any new air pollution sources in future, the project authorities shall apply and obtain consent for establishment for the same from the Board.

C. HAZARDOUS WASTES (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES 2016:

1. The industry shall apply and obtain authorization under Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2016, and comply with the conditions of the authorization. The applicant shall comply with the terms and conditions stipulated in authorization.
2. The applicant shall dispose the empty raw material cans back to the supplier and shall maintain the manifesto to this process. The details shall be submitted to the Board.
3. The applicant shall sell the boiler ash to the farmers along with press-mud and ETP sludge to use as manure in their lands for green belt development and gardening.

D. GENERAL CONDITIONS

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.

2. The Noise generated in the factory shall be within the prescribed limits of 75 dB (A) leq. During day time and 70 dB (A) leq during night time.
3. There shall not be any complaint against the industry on water, air, noise pollution from the surrounding general public.
4. The applicant shall carryout intensive plantation/ thick vegetation all round, especially towards residential apartment to minimize air & noise pollution. The action taken report shall be submitted to the Board immediately.
5. The applicant shall comply with the noise standards for work zone exposure for industrial workers as per the Factories Act/Noise Pollution (Regulation and Control) Rules, 2000.
6. The Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The applicant shall submit storm water management plan & shall implement the same and submit the action taken report to the Board.
8. Industry shall provide dyke wall of sufficient height for molasses storage tank.
9. The industry shall provide metalled road for transportation of cane along with metalling of lateral roads.
10. The industry shall provide acoustic enclosures to prevent the noise generation to 90 TPH, 70 TPH (2 Nos) boiler.
11. The applicant shall not discharge treated water/untreated water in to the water bodies (if any) at any point of time.
12. The industry shall provide rain water harvesting system within the premises to conserve the Water Source.
13. 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.
14. The applicant shall store the metal scrap, plastic waste, glass wool and other solid waste scientifically in a designated separate shed within the industrial premises and the same shall be handed over to authorized recycler/agency with proper approval from the Board.
15. The applicant shall store the used containers scientifically in a designated separate shed within the industrial premises and the same shall be handed over to authorized recycler/agency with proper approval from the Board.
16. The applicant shall use the press mud and ETP sludge for the preparation of manure and the same shall be handed over to farmers for using in their land.
17. The applicant shall mix the boiler ash with the press mud and sell to farmers as manure and boiler ash shall be handed over to brick industries.
18. All the lagoons shall be constructed above ground level.
19. The applicant shall provide the impervious collection sump to collect the molasses spillages.
20. The applicant shall improve the house keeping within the industrial area.
21. The Yeast Sludge shall be handed over to farmers for using as manure.
22. The incineration Boiler Ash shall be handed over to Brick manufacturers.

For and on behalf of the KSPCB


SENIOR ENVIRONMENTAL OFFICER

ANNEXURE -A

Standards for using the treated trade effluent on land for irrigation/green belt development

Sl. No	Characteristics	Standards
1	pH	5.5 to 8.5
2	BOD, mg/l , (3 days at 270 C)	100
3	TSS, mg/l	100
4	Oil and Grease-mg/l	10
5	Total Dissolved Solids-mg/l	2100
6	Colour and odour	See Note

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

TABLE

HYDRAULIC LOADING APPLICABLE FOR DIFERENT 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


SENIOR ENVIRONMENTAL OFFICER

The Air pollution sources, Chimney height and the control equipments provided by the industry shall be as below and the Air pollution sources mentioned in the main consent at Page No: 4 shall be replaced with this Annexure-B

Sl. No.	Chimney Attached to	Minimum Chimney Height to be Provided	Constituents to be controlled in the emission.	Tolerance limits Mg/NM3	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.	Remarks
1	90 TPH Boiler (Co-gen)	90 m AGL	PM	150	With ESP	At All Times	1. The emission rate of all chimneys shall be reported within 30 days. 2. Details of D.G. Sets if any like KVA rating fuel consumption in Kg/hr., Chimney height above roof level and dia to be furnished within 30 days. D.G. Sets and other noise generating machinery to be provided with Silencers /Mufflers to reduce the noise pollution.
2	70 TPH Boiler (Sugar)	57 m AGL	PM	150	With Wet Scrubber*	At All Times	3. There shall be no smell or odour nuisance from the industry.
3	70 TPH Boiler (Sugar)	80 m AGL	PM	150	With Wet Scrubber*	At All Times	4. There shall be no other sources of air pollution.
4	720 KVA DG Set	20 m ARL	SO2	---	With Acoustic Enclosure.	At All Times	

* Industry shall explore the possibility of upgrading the wet scrubber into ESP and submit the action plan along with CFE application to obtain necessary approval from the Board.

[Handwritten Signature]

SENIOR ENVIRONMENTAL OFFICER

Itanabandi Sugar
Sugar Division



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Consent No. AW-327932
Valid upto: 30/06/2026

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Combined Consent Order No. AW-327932 **PCB ID:** 28996 **Date:** 11/11/2021

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- Ref: 1. Application filed by the applicant/organization on 11/08/2021
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Location:

Name of the Industry: Jamkhandi Sugars Limited, (Distillery Division)
Address: Sy No's 66, 72, 73, 74, 78, 79, 80 & 88, Hirepadasalagi
Industrial Area: Not In I.A, Hirepadasalagi Village,
Taluk: Jamkhandi, District: Bagalkot

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Domestic Purpose	10.000	8.000	Treated in septic tank and soak pit
2	Manufacturing Processes	900.000	0.000	Distillery unit: fresh water requirement 900 KLD + CPU reuse water 1445 KLD, Wastewater generation - spent lees 207 KLD + boiler blow down 35 KLD + cooling tower bleed 75 KLD + lab washing 20 KLD + MEE condensate 1072 KLD + DM reject 35 KLD (Total 1445 KLD reused back to process). Maximum fresh water consumption and wastewater generation taken for worst case scenario in the various feed stock combinations process. Plant will work on the principle of ZLD.

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.		

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty/Month	Unit
1	distillery captive powerplant	4.7000	MWH
2	distillery unit	4500.0000	KLT

This consent is valid for the period from 01/07/2021 **to** 30/06/2026

To,
Jamkhandi Sugars Limited, (Distillery Division)
Jamkhandi Sugars Limited,
Hirepadasalagi Village,
Jamkhandi Taluk, Bagalkot
Dist



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-327932
Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax:080-25586321
email id: ho@kspcb.gov.in

Industry Colour: RED Industry Scale: LARGE

(This document contains 5 pages including annexure & excluding additional conditions)

COPY TO:

The Environmental Officer, KSPCB, Regional Office Bagalkote for information and necessary action.

2. Master Register.
3. Case file.

Consent Fee paid : Rs. 750000

SCHEDULE

TERMS AND CONDITIONS

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

1. The discharge from the premises of the occupier 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/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standards stipulated by the Board in Annexure-I
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

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. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.



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

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.

E. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

* dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

* A “decibel” is a unit in which noise is measured.

* “A”, in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

* Leq: It is an energy mean of the noise level over a specified period.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. 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.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims whatsoever to the continuation or renewal of this consent after expiry of the validity of consent.



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10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.

NOTE:

The Conditions A(2b,3b) mentioned in the schedule are not applicable.

Additional Conditions:

1. The occupier shall comply with all the additional terms and conditions stipulated in Annexures I & A attached here.
2. This consent order contains 9 pages including Annexures.

Chimney No.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	Boiler	23 TPH incinerator or - common chimney	80	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150, 100, 50	COA	ESP	Before commissioning.
2	Boiler	22 TPH incinerator or - common chimney	80	PM(mg/NM3), SO2 (PPM), NOx(PPM)	150, 100, 50	COA	FIL	Before commissioning.

Note:

ESP : E.S.P

FIL : Bag Filter



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Note:

1. The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
2. The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.
3. There shall be no smell or odour nuisance from the industry.

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, 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 at least 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 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
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 of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

For and on behalf of the
Karnataka State Pollution Control Board

Signature Not Verified

Digitally signed by
Date: 2021.11.11 13:24:54
+05:30

Annexure-I
Additional Conditions

1. **This consent for Operation is valid for a period from 01.07.2021 to 30.06.2026.**
2. **This CFO is issued for production of RS/ENA/Ethanol-60 KLPD and Captive power plant from 2.2 MW.**
3. The authorities have paid Rs. 10,00,000/- as Consent fee for 5 years based on the CI of Rs. 165.27 Crores. The applicant shall pay the balance fee, if any, after the final notification of revised consent fee and as per the affidavit submitted by the industry.
4. The applicant shall comply with all the conditions stipulated in the EC issued from MoEF & CC on 09.04.2009 for establishment of 60 KLD and 2.2 MW Co generation plant vide J-11011/300/2007 IA-II (I).
5. The applicant shall comply with all the conditions stipulated in the EC issued from MoEF & CC on 15.02.2021 for establishment of 150 KLD using Multi fee stock of C- heavy Molasses/ B- Heavy Molasses and Sugar Syrup with Co generation plant from 2.2 MW to 4.7 MW vide J-11011/300/2007 IA-II (I).
6. The water consumption after the proposed Expansion activity for both domestic and industrial activity shall be as below:

Sl. No.	Particulars	Consumption in KLD
1.	Fresh water	900
2.	Reuse from distillery CPU	1445
3.	Domestic purpose	10
Total water requirement		2355

- The waste water generation after the proposed Expansion activity for both domestic and industrial activity shall be as below:

Sl. No.	Particulars	Waste water generation in KLD
1.	Spent lees	207
2.	MEE condensate	1072
3.	DM plant Regen	35
4.	Boiler blow-down	35
5.	Cooling tower bleed	75
6.	Lab washing	20
7.	Domestic purpose	8
Total		1445

7. Industry shall comply with the treatment method described in the below table for raw spent wash, concentrated spent wash, spent lees, MEE condensate, boiler blow down and cooling tower bleed.

Sl. No.	Effluents	Capacity of treatment units	Treatment method
1.	Distillery unit		
	Raw spent wash	<ul style="list-style-type: none"> • Existing MEE – 1015 m³/day • 22 and 23 TPH incineration boiler • CPU with 3 stage 	<ul style="list-style-type: none"> • The spent wash shall be concentrated in MEE and the Concentrated spent wash shall be used as fuel in incineration boiler to achieve ZLD in terms of managing spent wash • MEE condensate, spent lees,
	Concentrated spent wash		
	Spent lees		
	MEE condensate		
	Boiler blow down		
	Cooling tower bleed		

Samalchandi Distillery

	Miscellaneous	RO plant of capacity 15m ³ /hr.	boiler blow down, cooling tower bleed, laboratory wastewater shall be treated in CPU and the treated water shall be reused for cooling tower and dilution of molasses /sugarcane juice.
2.	Domestic Sewage	-	Shall be disposed to septic tank followed by soak pit.

8. The industry shall treat the concentrated spent wash in MEE of capacity 1015 m³/day. Concentrated spent wash is used as fuel in incineration boiler MEE condensate, spent lees, boiler blow down, cooling tower bleed, laboratory wastewater in treated in CPU with 3 stage RO plant of capacity 15m³/hr and reused for cooling tower and dilution of molasses/sugarcane juice.
9. Industry shall explore the possibility of treating the sewage by providing STP of required capacity as the total domestic sewage generation is 8 KLD. Industry shall submit the details of source of domestic sewage along with plan of action for providing STP.
10. The applicant shall not dig the new Bore wells within the premises.
11. The applicant shall take suitable steps so that there will be reduction of the fresh water consumption as well as waste water generation from the industry.

B. DISCHARGE OF EMISSIONS UNDER THE AIR ACT:-

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-A** 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. Fugitive emission near manufacturing area has to be controlled by adopting advance technology. Progress made in this regard shall be furnished.
3. If there is going to be any new air pollution sources in future, the project authorities shall apply and obtain consent for establishment for the same from the Board.

C. HAZARDOUS WASTES (MANAGEMENT, HANDLING & TRANSBOUNDRY MOVEMENT) RULES 2016:

1. The industry shall apply and obtain authorization under Hazardous Wastes (Management, Handling & Transboundry Movement) Rules 2016, and comply with the conditions of the authorization. The applicant shall comply with the terms and conditions stipulated in authorization.
2. The applicant shall dispose the empty raw material cans back to the supplier and shall maintain the manifesto to this process. The details shall be submitted to the Board.
3. The applicant shall sell the boiler ash to the farmers along with press-mud and ETP sludge to use as manure in their lands for green belt development and gardening.

D. GENERAL CONDITIONS

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The Noise generated in the factory shall be within the prescribed limits of 75 dB (A) leq. During day time and 70 dB (A) leq during night time.
3. There shall not be any complaint against the industry on water, air, noise pollution from the surrounding general public.

4. The applicant shall comply with the noise standards for work zone exposure for industrial workers as per the Factories Act/Noise Pollution (Regulation and Control) Rules, 2000.
5. The applicant shall carryout intensive plantation/ thick vegetation all round, especially towards residential apartment to minimize air & noise pollution. The action taken report shall be submitted to the Board immediately.
6. The Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The applicant shall submit storm water management plan & shall implement the same and submit the action taken report to the Board.
8. The applicant shall not discharge treated water/untreated water in to the water bodies (if any) at any point of time.
9. The applicant shall construct the wind breaking walls to prevent the spread of fugitive emission before the start of next crushing season.
10. Industry shall provide dyke wall of sufficient height for molasses storage tank.
11. Industry shall provide garland drains all around spent wash/ spent lee storage tank and the same shall be connected to collection tank with pumping back system to lined storage lagoon.
12. The Ash from the incineration boiler shall be handled in a closed system to prevent fugitive emission.
13. The Spent wash shall be treated using concentration and drying to form potash rich manure so that the same can be distributed to farmers.
14. The process organic residue and spent carbon, shall be sent to Cement other suitable industries for incinerations in their kilns.
15. The ETP sludge, process inorganic & evaporation salt shall be disposed of to TSDF after obtaining necessary authorisation.
16. The raw materials shall be stored in the closed shed/silos to prevent fugitive dust pollution in the surrounding area.
17. The CO₂ generated from the process shall be bottled/made solid ice and the same shall be sold to authorized vendors after obtaining necessary permission.
18. Continuous online (24X7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data shall be transmitted to the CPCB and SPCB server.
19. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises to measure the quantity of treated effluent. Log book shall be maintained for verification of inspecting authorities.
20. The boiler ash, yeast sludge and ETP sludge shall be mixed to convert the same to compost and shall be given as manure to member farmers.

For and on behalf of the KSPCB



SENIOR ENVIRONMENTAL OFFICER



The Air pollution sources, Chimney height and the control equipments provided by the industry shall be as below and the Air pollution sources mentioned in the main consent at Page No: 4 shall be replaced with this Annexure-A

Sl. No.	Chimney Attached to	Minimum Chimney Height to be Provided	Constituents to be controlled in the emission	Tolerance limits Mg/NM3	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.	Remarks
1	22 TPH Incineration Boiler	80 m AGL	PM	150	With Bag Filter	At All Times	1. The emission rate of all chimneys shall be reported within 30 days. 2. Details of D.G. Sets if any like KVA rating fuel consumption in Kg/hr, Chimney height above roof level and dia to be furnished within 30 days. D.G. Sets and other noise generating machinery to be provided with Silencers /Mufflers to reduce the noise pollution. 3. There shall be no smell or odour nuisance from the industry. 4. There shall be no other sources of air pollution.
2	23 TPH Incineration Boiler	80 m AGL	PM	150	With ESP	At All Times	


 SENIOR ENVIRONMENTAL OFFICER

