Reg. No. 08/14570/1993/ dt. 26-7-1993

Jamkhandi Sugars Ltd., Unit -II ಜಮಐಂಡಿ ಶುಗರ್ ನಿಯಮಿತ, ಫಟಕ - II

28 Unit-1 : OFF : 7022022148,149

Unit-II: OFF: 240257 / 259 STD: 08359

E-mail: ceo@jamkhandisugars.com

At Post: NAD KD - 586 217. Tq: INDI Dist: VIJAYAPUR - KARNATAKA

• GST No. : 29AAACJ8575C1ZD • PAN NO. : AAACJ8575C • CIN NO : U85110KA1993PLC014570

Ref.: JSL-2/ETP/ENV/ENV.statement/2024-25/

Date: 23/04/2025

To,

The Environmental officer, Regional office; vijayapur Plot No-86, Harakari layout, Vajra Hanuman Nagar Bagalkot road Vijayapur -585101

Sub: Submission of Environmental statement for the season 2024-2025

Sir,

With reference to above subject, we are herewith submitting the Environmental statement for the season 2024-2025 w.r.t. For our M/s JAMKHANDI SUGARS LIMITED UNIT-2 Locate at Nad K.D. Taluk;Indi, Dist;Vijayapur..

Kindly acknowledge the receipt of the same.

Thanking You

Yours Faithfully,

For Jamkhandi Sugars Ltd unit-2 Nad K.D

FOI JAMKHANDI SUGARS LTD. UNIT-II

Chief Executive Officer G, Madhav Raju

15. DU ...

Chief Executive Officer

SUGARS LTO-LIVIT-II WHY NOO!

REGD. OFFICE: AT: HIREPADASALAGI POST: NAGANUR - 587 301. Tq. Jamkhandi Dist.: Bagalkot State Karnataka

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ENVIRONMENTAL STATEMENT FOR THE SEASON 2024-25

M/s. Jamkhandi Sugars Ltd., Unit II

Post: Nad K D, Ta: Indi, Dist: Vijayapur - 586217



1.0 Environmental Statement - An Overview

Like financial auditing which is conducted every year to have an accountability of the financial inflows and outflows, profit etc., environmental statement is a new concept, which would give the accountability of the issues related to the environment. This would help in comparing the data gathered together in the subsequent years of raw material consumption and water consumption and this would help in reducing the same to the best possible extent.

Environmental statement is an exercise of self - assessment to minimize the generation of wastes and pollution potential.

Environmental statement is a technique being introduced for integrating the interest of the industry and the environment, so that these could be mutually supportive. This technique is basically a part of industries internal procedures in meeting their responsibilities towards a better environment. Also the policy statement for abatement of pollution by the Government of India provides for submission of environment statement by all concerned industries, which would subsequently evolve into an environmental statement.

1.1. Objectives

The environmental statement helps in pollution control, improved production safety and health and conservation of natural resources and hence its overall objectives can be stated as achievement of sustainable development.

1.1.1. The Objectives of an Environmental Statement in an Industry are:

- A. To determine the mass balance of various materials used and the performance of various process equipment so as to identify usage of materials in excess than required. To review the conversion efficiency of process equipment and accordingly fix up norms for equipment/operation performance and minimization of wastes.
 - a) To identify the areas of water usage and wastewater generation and to determine the characteristics of wastewater.
 - b) To determine the solid wastes and hazardous wastes generated, their sources, quantities and characteristics.
- B. To determine the possibility of wastes minimization, recovery and re-cycling of wastes.

C. To determine the performance of the existing waste treatment/control system so as to modify or install additional or alternative control equipment accordingly.

1.1.2. The submission of an Environmental Statement is applicable to the following:

- a) Those who require consent under Water (Prevention and Control of Pollution), Act, 1974.
- b) Those who require consent under Air (Prevention and Control of Pollution), Act, 1981.
- c) Those who require authorization under Hazardous Wastes (Management and Handling) Rules, 1989.

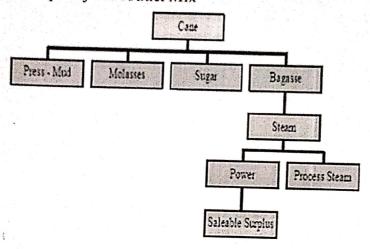
2.0. General Information

Name of the Industry	M/s. Jamkhandi Sugars 1td .,Unit II
Registered office Address	Jamkhandi Sugars Ltd At:Hirepadasangi, Post: Nagnur,
	Tal: Jamkhandi Dist: Bagalkot -587301
Factory Address	M/s Jamkhandi Sugars Ltd., Unit II Post: Nad K D, Tal: Indi,
	Dist: - Vijayapura ,586217
Name, Designation and	Mr G.Madhav Raju , Chief Executive Officer
Address of the contact	M/s. Jamkhandi Sugars ltd .,Unit II
Person regarding pollution	Sugar plant Size: Large Category: Red
Type of Industry	3500 TCD sugar plant and 27 MW co gen
.onsenia maer	AW-329096 Valid upto:30/06/2026 dated:07/01/2022 PCB ID:10535



3.0. PROCESS FLOW DIAGRAM

Product, Production Capacity & Product Mix

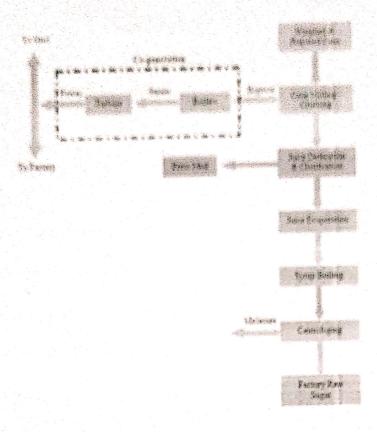


Product mix

Expansion Product Mix

Sl.No	Product	Quantity
1	Sugar cane	3500 TCD
2	Power	27.0 MW





Generic flow diagram of integrated sugar complex

Sugar manufacturing process

Sugar cane is the raw material for manufacture of sugar. Juice is extracted from the sugar cane, which is then processed to recover sugar. Bagasse, which is the left out fibre material after extraction of juice from sugar cane, is used as fuel in boiler to produce steam. Steam is used for generation of electric power and exhaust steam is used for evaporation of water in the juice.

The flow diagram of sugar manufacturing process is given in figure below. A brief description of the process is given below.

Crushing of Sugar cane

Sugar cane is harvested and dressed in the fields and then supplied to factories through lorries, tractor-trailers or bullock carts. Crushing takes place mainly in two stages; first preparation and then milling. Preparation is done in leveller, cutter and fibrizer. The prepared cane is then crushed by passing through mills. Hot water is added in the course of crushing as imbibitions water for better extraction of juice from sugar cane-After crushing, the bagasse is sent to boiler as fuel and juice is sent for purification & recovery of sugar.

Tuice Clarification

The weighed quantity of juice is primarily heated to 70-75°C in juice heaters and then treated with sulphur and lime. Then the treated juice is again heated to 100-102° C in another set of juice heaters. The hot juice is sent to clarifier. Clarified juice is decanted out and sent for evaporation in a set of multiple effect evaporate bodies. The juice of 15° Brix is concentrated in the evaporators to syrup of 60° Brix.

Crystallization

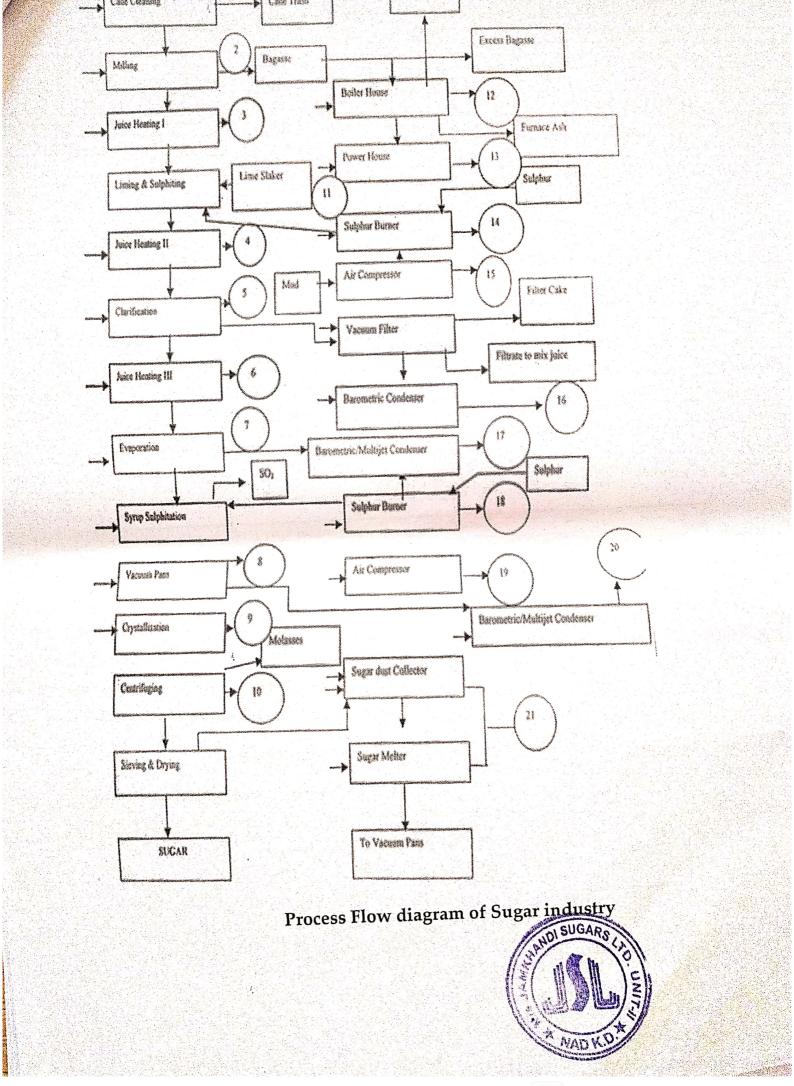
The syrup is sent to pan floor for further concentration in vacuum pans. The syrup collected in supply tanks is taken to pans for boiling where the syrup concentrates and attains super saturation stage. In such a condition sugar grains are formed in the syrup. The syrup mass with sugar particles is called massecuite. The massecuite is dropped in crystallizers and cooled to complete the crystallization.

Curing or Centrifuging

Massecuite is taken into the high speed centrifugal machine. Sugar crystals are separated from mother liquor and sent to driers. Non crystallisable matter from the massecuite called molasses, is drained out from the centrifuge. The molasses is weighed and sent to storage tank.

Drying, Grading and Bagging

Sugar is dried in the vibrating hopper and graded by passing through standard sieves. The graded sugar is bagged, weighed for 50 Kgs net, stitched, numbered and stacked in sugar godown.



ENVIRONMENTAL STATEMENT FORM-V (See rule 14)

ENVIRONMENTAL STATEMENT FOR THE SEASON 2024-2025

PART- A

i.	Name and address of the owner/ occupier of the industry	Mr .G.Madhav Raju , CEO M/s Jamkhandi Sugars Ltd., Unit II Post: Nad K D, Tal: Indi, Dist: Vijayapur - 586217
Operati	on or Process	
ii.	Industry category Primary-(STC Code) Secondary- (STC Code)	Primary Category : Red , Size: Large
iii.	Production Category-Units	White crystal sugar with sugar cane crushing capacity of 3500 TCD 27 MW Co - gen
	Year of establishment	2012
iv. v.	Date of Last Environmental Statement submitted	17/04/2024
vi.	No. of Employees	368

PART-B

	Process water consumption per unit of Product Output		
Name of the Products	During the previous financial year,2023-24 KLD/day	During the current financial year 2024-25, KLD	
	376	219	
Sugar	724	512	

Water and Raw Material Consumption

i. Water Consumption in m³/d

	2023-24	2024-25	
Water Consumption Process	376+724=1100(including	219+512=731(including fresh water& condensate water)	
Cooling (including washing and boiler feed)	fresh water& condensate water)		
Domestic	18	24	



Water Consumption per unit of output ii. Raw Material

Consumption

Name of the Raw Material	Name of the Product	Consumption of Raw material per unit output		
	*100 u.g	During the previous Season 2023-24	During the Current Season 2024-25	
Sugar cane	Sugar	10.23MT	10.36 MT	
Lime		0.016MT	0.012 MT	
Sulphur	D	0.006MT	0.006 MT	
* Industry may	Power	0.0022 MT	0.0024 MT	

Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART-C Pollution discharged to environment/unit of output (Parameters as specified in the consent issued)

Pollutants	Discharge of pollutants (Kg/day)	Concentration of Pollutants discharged mg/volume	Reasons
Water	 Effluents from consisting of tank, pressure Monitoring washings will laboratories. 	effluent is treated in some washings are treated collection cum aeration sand filter and final color the characteristic be outsourced to KSP	ated in an ETF on tank, settling ollection tank. es of effluent CB empanelled
All	emitting in to a	120 TPH boiler with h ESP followed by ba atmosphere set is also equipped w	g filters before



PART-D

HAZARDOUS WASTE

(As specified under the Hazardous Waste (Management and Handling Rules, 1989))

Hazardous Waste	Total Quantity (Kg)		
	During the Previous Financial Year 2023-24	During the Current Financial Year 2024-25	
a) From Process	0.220 KL/ annum used	0.165 KL/ annum used	
b) From Pollution Control facilities	within the premises as lubricants	within the premises as lubricants	

PART-E

SOLID WASTES

Total Quantity (Kg)			
During the Previous Financial Year 2023 - 2024		During the Current Financial Year 2024-25	
Ash	22.8 TPD	Ash	13.1 TPD
Press	113 TPD	Press	93.5 TPD
mud			10
ETP sludge= 50 kg/day		ETP sludge = 40 kg/day	
Bagasse = 1099 TPD		Bagasse = 850 TPD	
	Financial 20 Ash Press mud ETP slu kg/	During the Previous Financial Year 2023 - 2024 Ash 22.8 TPD Press 113 TPD mud ETP sludge= 50 kg/day	During the Previous Financial Year 2023 - 2024 Ash 22.8 TPD Ash Press 113 TPD Press mud ETP sludge= 50 ETP sludge kg/day Buring the Previous Financial Fi

PART-F

Please specify the characterization (in terms of Composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

The Hazardous waste generation is from D.G. Set of capacities 320 KVA in the form of used oil and is classified under Category No.5.1 according to Hazardous Wastes (Management & Handling) Amended rules 2003. The quantity is approximately 100 liters per annum. The quantity solely depends on the usage of D.G. Sets (more usage when there is no power supply). This is stored securely in sealed barrels in the premises and used as a lubricant in the mill gear, Carrier chains as lubrication.

The ash is mixed with press mud and sold as manure to member farmers.



PART G

Impact of the pollution control measures taken on the conservation of natural resources and consequently on the cost of production

A. Impact of pollution abatement on conservation

a. Cleaner Effluents

During the manufacturing process, wastewater is generated from various sections viz. process, washing area, domestic activity.,

The consumption of fresh water is kept in control because of production planning, maintaining dedicated production facility and optimization of wash water amount.

b. Resource Conservation & Recovery

Proper production planning and quality management techniques have resulted in lesser consumption of raw material which has resulted in lesser wastage of raw material, which earlier used to reach E.T.P.

c. Solid Waste Reuse

Baggasse generated as a byproduct from the sugar industry is reused as fuel for captive power plant.

The sludge generation from E.T.P. is partly used as manure in the plant premises. The remaining sludge is given free of cost to member farmers to use as manure.

B. Impact of pollution abatement on the cost of production

The expenditure incurred on the maintenance and running of the ETP works out to be 14.0 lakhs rupees this year. This includes the cost of chemicals, machinery repairs, machinery repairs, replacement of parts, labor etc & power required during season our own source. In the startup &after closure of crushing season KPTCL power used & the cost of it will be Rs 8.0 lakhs.

PART-H

Additional measures/investment proposal for environmental protection including abatement of pollution, prevention of pollution

The company has already adopted various quality systems and improved manufacturing discipline. This has resulted in material conservation and waste reduction this year.

The industry has reduced its fuel consumption this year considerably compared to previous year. The indirect benefits are lesser emission of pollutants, maintenance of ambient air quality and energy conservation.

PART-I

MISCELLANEOUS

Any other particulars in respect of environmental protection and abatement of pollution_

The industry shall try to utilize all the treated effluent optimally for factory lawns & growing more trees in the premises.

Thanks & Regards

For JAMKHANDI SUGARS LTD. UNIT-II

3. Plum mi

GShief Executive Officer

CHIEF EXECUTIVE OFFICER

Gamkhandi Sugars Ltd. Unit 11 NAD KD I Indi - Tq I Bijapur - Dist Karnataka-State I India I Pin -586209 E-mail ceo@jamkhandisugars.com

