

**ENVIRONMENTAL STATEMENT FOR  
THE FINANCIAL YEAR  
2021-2022**

**Submitted By**



**M/s. Jamkhandi Sugars Ltd., Unit I**

**Post: Hirepadasalgi, Nagnur, Tal: Jamkhandi  
Dist: Bagalkot - 587301**

**Jamkhandi Sugars Ltd.,**

**ಜಮಖಂಡಿ ಶುಗರ್ಸ್ ಲಿ. ಜಮಖಂಡಿ.**

**GSTIN No : 29AAACJ8575C1ZD**



**© CUG No. 7022022148 / 149**

**CIN No. U85110KA1993PLC014570**

**JSL/Mfg/Env- Audit-Sugar/2021-22/3sugar/1436**

**Date: 20.06.2022**

**To,**

**The member Secretary  
Karnataka state pollution control Board  
#48 Parisar Bhavan 4<sup>th</sup> and 5<sup>th</sup> Floor,  
Church Street  
Bangalore-560001**

Submitted through: Environmental Officer, Regional Office, KSPCB, Bagalkot.

Subject: - submission of Environment Statement For the financial year 2021-22-Reg.

R/sir,

With reference to above cited subject, we are enclosing herewith the Environment Statement for financial year 2021-22 for our "M/s Jamkhandi Sugars Ltd" located at Hirepadasalgi village, Nagnur Post-587301, Jamkhandi Taluk, Bagalkot District, Karnataka. Kindly acknowledge the receipt, So that we can upload the same in our company website.

Thanking You,

Yours Faithfully,  
**For Jamkhandi Sugars Limited**

**General Manger (W)**



Encl: Two copies of Environmental Statement.

**Jamkhandi Sugars Ltd.,**

**ಜಮಖಂಡಿ ಶುಗರ್ಸ್ ಲಿ. ಜಮಖಂಡಿ.**

**GSTIN No : 29AAACJ8575C1ZD**



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**CIN No. U85110KA1993PLC014570**

**JSL/Mfg/Env- Audit/2021-22/ಶುಗರ್/1437**

**Date: 20.06.2022**

To,

**The Environmental Officer,  
Regional Officer  
Karnataka state pollution control Board  
Sector No.7, Bypass Road, Navanagar,  
Bagalkot -587702**

Sir,

**Subject: - submission of Environment Statement For the financial year 2021-22.**

With reference to above cited subject, we are enclosing herewith the Environment Statement for financial year 2021-22 for our "M/s Jamkhandi Sugars Ltd" located at Hirepadasalgi village, Nagnur Post-587301, Jamkhandi Taluk, Bagalkot District, Karnataka. Kindly acknowledge the receipt, So that we can upload the same in our company website.

Thanking You,

Yours Faithfully,  
**For Jamkhandi Sugars Limited**

  
**General Manger (W)**



Enclosure: - Form V

**ENVIRONMENTAL STATEMENT FORM-V**  
(See rule 14)

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL  
YEAR ENDING 31 ST MARCH 2022**

**PART- A**

i.	Name and address of the owner/ occupier of the industry	<b>V.Sivaprakasam. Managing Director M/s Jamkhandi Sugars Ltd.,(Unit I) Post: Hirepadasalgi, Nagnur, Tal: Jamkhandi Dist: Bagalkot - 587301</b>
<b>Operation or Process</b>		
ii.	Industry category Primary-(STC Code) Secondary- (STC Code)	<b>Primary-(SIC CODE)-2000 Secondary-(SIC CODE)-2061 Category : Red , Size: Large</b>
iii.	Production Category-Units	<b>White crystal sugar with sugar cane crushing capacity of 11500 TCD and 34 MW/hr cogeneration</b>
iv.	Year of establishment	<b>2001</b>
v.	Date of Last Environmental Statement submitted	<b>20.05.2021</b>
vi.	No. of Employees	<b>425 no's</b>

	<i>Crushing season</i>  <i>20120-21</i>	<i>Crushing season</i>  <i>2021-22</i>
<i>Crushing in MT</i>	<i>671946.134</i>	<i>1307881.378</i>
<i>Sugar in MT</i>	<i>55912</i>	<i>105787</i>
<i>Crop day</i>	<i>113</i>	<i>159</i>

## PART-B

### 1) (a) Water Consumption in m<sup>3</sup>/day

Source	During the previous financial year 2020-21	During the current financial year 2021 -22
Process	86	105
Cooling (including washing and boiler feed)	280	550
Domestic	16	70

### b) Water consumption per unit of out-put.

Name of the Product	Process water consumption per unit of Product OutputM3/MT of sugar	
	During the previous financial year 2020-21	During the current financial year 2021-22
Sugar process+cooling	0.73	0.98
Domestic	0.03	0.1

### ii. Raw Material Consumption

Raw Materials	Product	Consumption of raw material per unit of output	
		During the previous financial year 2020-21	During the current financial year 2021-22
Sugar Cane	Crystal white Sugar	12.01	12.3
Lime		0.016	0.012
O.P. Acid		0.00020	0.00013
Sulfur		0.0046	0.0024
Caustic Soda		0.000096	0.00050
Lubricants (Kgs/MT of Sugar cane crushed)		0.082	0.090

## 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	<ul style="list-style-type: none"> <li>• Domestic effluent is treated in septic tank and soak pit.</li> <li>• Effluents from washings are treated in an ETP consisting of collection cum reaction tank, Buffer Tank, UASBR, Aeration Tank I, Secondary clarifier I, Aeration Tank II Secondary Clarifier II, and final collection tank.</li> <li>• Monitoring of the characteristics of effluent washings will be outsourced to KSPCB empanelled laboratories.</li> </ul>		
Air	<ul style="list-style-type: none"> <li>• Emission from 90 TPH boiler, 70 TPH boiler with chimney of 90 mt and 56 mts pass through ESP, Wet scrubber respectively before emitting in to atmosphere</li> <li>• 725 KVA, DG set is equipped with chimney of 20 mts. respectively</li> </ul>		
<ul style="list-style-type: none"> <li>• Monitoring reports are enclosed herewith for your kind perusal</li> </ul>			

## PART-D

### HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity (L/annum)	
	During the previous Financial Year 2020-21	During the Current Financial Year 2021-22
a) From Process	140Ltrs/ annum used within the premises as lubricants	200 Ltrs/ annum used within the premises as lubricants
b) From Pollution Control facilities		

## PART-E

### SOLID WASTE

SR.NO	Solid waste	Total Quantity			
		During the previous Financial Year 2020-21		During the Current Financial Year 2021-22	
1.					
	a) From Process	Ash	2314 MT	Ash	1767.18 MT
		Press mud	20208 MT	Press mud	26026.8 MT
	b) From Pollution Control facility (Organic Sludge)	ETP sludge 28.0 MT		ETP sludge 40.0 MT	
	c) Quantity recycled or reutilized within the unit	Bagasse = 192892.134 MT		Bagasse = 271875 MT	

## 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 725 KVA, 500 KVA and 320 KVA DG set 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 200 lts /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.

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.

## **PART-H**

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

Industry has commissioned the Incineration boiler of 22 TPH & 23 TPH for utilization of spent wash after multiple effect evaporation in incineration boiler as fuel. Bag filter is installed for emission control for the suspended particulate matter through flue gas.

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**

Any other particulars in respect of environmental protection and abatement of pollution.

Condensate Polishing Unit (RO process) is provided for the treatment of process condensate from MEE and spent less. The RO out let is utilized for cooling tower make up water.

This year additional tree plantation of 1000 trees was carried out for the minimization of fugitive emissions.

**Date: - 20.06.2022**

**Place: - Hirepadasalgi**

**For Jamkhandi Sugars Ltd**



**General manger (W)**





# MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,

E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvallbellary.com



TC-7207

MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000007025F

Issued Date: 14.03.2022

1. Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Name of the location : Near Main Gate
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Sample collected with RDS 460BL/Fine Particulate Sampler
5. Date of Sample Receipt : 09.03.2022
6. Analysis Starting Date : 10.03.2022
7. Analysis Completion Date : 14.03.2022
8. Sample Tested as Received

### RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM <sub>10</sub>	IS-5182(Part-23) – 2006	µg/m <sup>3</sup>	8 hrs	76.22	100
2	Particulate Matter PM <sub>2.5</sub>	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m <sup>3</sup>	8 hrs	27.14	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2) – 2001	µg/m <sup>3</sup>	8 hrs	5.80	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6) - 2006	µg/m <sup>3</sup>	8 hrs	10.57	80

INFERENCE	As per NAAQ Standards
	Report Status :- The analyzed value for above measured parameter is within the limits

Verified by  


Authorized Signature  




- Note : 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.  
4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.  
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,

E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC7207220000007026F

Issued Date: 14.03.2022

1. Name of the Project	:	M/s. Jamkhandi Sugars Ltd., At: Hirepadasalagi, Post: Naganur - 587301, Tq: Jamkhandi, Dist: Bagalkot
2. Name of the location	:	Near Guest House
3. Sample Collected By	:	MSV Analytical Laboratories
4. Particulars of the sample collected	:	Sample collected with RDS 460BL/Fine Particulate Sampler
5. Date of Sample Receipt	:	09.03.2022
6. Analysis Starting Date	:	10.03.2022
7. Analysis Completion Date	:	14.03.2022
8. Sample Tested as Received	:	

## RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM10	IS-5182(Part-23) – 2006	µg/m <sup>3</sup>	8 hrs	71.95	100
2	Particulate Matter PM2.5	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m <sup>3</sup>	8 hrs	25.80	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2) – 2001	µg/m <sup>3</sup>	8 hrs	5.42	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6) - 2006	µg/m <sup>3</sup>	8 hrs	10.31	80

INFERENCE	As per NAAQ Standards
	Report Status :- The analyzed value for above measured parameter is within the limits

Verified by  
*Rameel*

Authorized Signature

*King H. 2*



- Note:
1. The results listed only to the tested samples & applicable parameters,
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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvallabellary.com



MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000007027F

Issued Date: 14.03.2022

- M/s. Jamakhandi Sugars Ltd.,**  
**At: Hirepadasalagi, Post: Naganur - 587301,**  
**Tq: Jamkhandi, Dist: Bagalkot**
- Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
  - Name of the location : Near ETP Plant
  - Sample Collected By : MSV Analytical Laboratories
  - Particulars of the sample collected : Sample collected with RDS 460BL/Fine Particulate Sampler
  - Date of Sample Receipt : 09.03.2022
  - Analysis Starting Date : 10.03.2022
  - Analysis Completion Date : 14.03.2022
  - Sample Tested as Received

## RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM10	IS-5182(Part-23) – 2006	µg/m <sup>3</sup>	8 hrs	67.19	100
2	Particulate Matter PM2.5	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m <sup>3</sup>	8 hrs	35.62	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2) – 2001	µg/m <sup>3</sup>	8 hrs	5.70	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6) - 2006	µg/m <sup>3</sup>	8 hrs	10.55	80

<b>INFERENCE</b>	<b>As per NAAQ Standards</b> <b>Report Status :- The analyzed value for above measured parameter is within the limits</b>
------------------	--

Verified by  
*Ramesh*

Authorized Signature  
*Ramesh*



- Note : 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.  
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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,

E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvallabellary.com



MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC7207220000007028F

Issued Date: 14.03.2022

- Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Name of the location : 90 TPH Boiler
- Sample Collected By : MSV Analytical Laboratories
- Particulars of the sample collected : Stack Sampler
- Date of Sample Receipt : 09.03.2022
- Analysis Starting Date : 10.03.2022
- Analysis Completion Date : 14.03.2022
- Sample Tested as Received

### GENERAL DETAILS

Date of Monitoring	09.03.2022
Fuel Used	Bagasse
Stack Temperature (°C)	139
Velocity (m/s)	8.10
Height (m)	90
Diameter (m)	3.0

### RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm <sup>3</sup>	70.25	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm <sup>3</sup>	12.78	100
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm <sup>3</sup>	24.12	50

INFERENCE	As per KSPCB Standards
	Report Status :- The analyzed value for above measured parameter is within the limits

Verified by  
*Ramesh*

Authorized Signature  
*Kavya S. R.*



- Note: 1. The results listed only to the tested samples & applicable parameters,  
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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvallbellary.com



MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC7207220000007029F

Issued Date: 14.03.2022

- Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Name of the location : 70 TPH Boiler
- Sample Collected By : MSV Analytical Laboratories
- Particulars of the sample collected : Stack Sampler
- Date of Sample Receipt : 09.03.2022
- Analysis Starting Date : 10.03.2022
- Analysis Completion Date : 14.03.2022
- Sample Tested as Received

### GENERAL DETAILS

Date of Monitoring	09.03.2022
Fuel Used	Bagasse
Stack Temperature (°C)	138
Velocity (m/s)	7.80
Height (m)	56
Diameter (m)	3

### RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm <sup>3</sup>	99.38	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm <sup>3</sup>	12.84	100
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm <sup>3</sup>	29.10	50

INFERENCE	As per KSPCB Standards
	Report Status :- The analyzed value for above measured parameter is within the limits

Verified by  
*Ramesh*

Authorized Signature

*L. S. S. S.*



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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvallbellary.com



MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000007030F

Issued Date: 14.03.2022

- Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Name of the location : 70 TPH New Boiler
- Sample Collected By : MSV Analytical Laboratories
- Particulars of the sample collected : Stack Sampler
- Date of Sample Receipt : 09.03.2022
- Analysis Starting Date : 10.03.2022
- Analysis Completion Date : 14.03.2022
- Sample Tested as Received

### GENERAL DETAILS

Date of Monitoring	09.03.2022
Fuel Used	Bagasse
Stack Temperature (°C)	134
Velocity (m/s)	7.66
Height (m)	80
Diameter (m)	3.5

### RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm <sup>3</sup>	65.32	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm <sup>3</sup>	11.40	100
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm <sup>3</sup>	21.67	50

INFERENCE	As per KSPCB Standards
	Report Status :- The analyzed value for above measured parameter is within the limits

Verified by

*Ramesh*

Authorized Signature

*Kavya*



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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,

E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/A/F/17/04

## NOISE LEVEL MONITORING REPORT

Test Report No: TC720722000007031F

Issued Date: 14.03.2022

- Name of the Project : M/s. Jamkhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Sample Collected By : MSV Analytical Laboratories
- Particulars of the sample collected : Noise meter
- Date of Monitoring : 09.03.2022
- Report Date : 14.03.2022
- Method Adopted : Instrument Manual Method

S.No	Sample Location	Time Frequency	RESULTS			KSPCB limits in dB(A) Leq
			Min in dB(A) Leq	Max in dB(A) Leq	Avg. in dB(A) Leq	
Day Time						
1	Boiling House	02.10pm to 02.25pm	69.7	73.6	71.7	75 (6.00am to 10.00pm)
2	Mill Station	02.35pm to 02.50pm	72.8	74.4	73.6	
3	Sugar House	03.00pm to 03.15pm	70.6	74.5	72.6	
4	Central Fugal	03.30pm to 03.45pm	70.8	73.1	72.0	
5	Turbine	04.00pm to 04.15pm	69.1	72.7	70.9	

INFERENCE	As per KSPCB Standards, Report Status :- In the all locations Noise level is within the limits
-----------	---

Verified by

Authorized Signature



- Note :
- The results listed only to the tested samples & applicable parameters,
  - Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
  - This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
  - Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
  - Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



# MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/17/04

## NOISE LEVEL MONITORING REPORT

Test Report No: TC720722000007032F

Issued Date: 14.03.2022

- Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Sample Collected By : MSV Analytical Laboratories
- Particulars of the sample collected : Noise meter
- Date of Monitoring : 09.03.2022
- Report Date : 14.03.2022
- Method Adopted : Instrument Manual Method

S.No	Sample Location	Time Frequency	RESULTS			KSPCB limits in dB(A) Leq
			Min in dB(A) Leq	Max in dB(A) Leq	Avg. in dB(A) Leq	
Night Time						
1	Boiling House	10.15pm to 10.30pm	64.6	67.0	65.8	70 (10.00pm to 6.00am)
2	Mill Station	10.35pm to 10.50pm	63.0	65.8	64.4	
3	Sugar House	10.55pm to 11.10pm	61.5	64.9	63.2	
4	Central Fugal	11.15pm to 11.30pm	64.1	66.7	65.4	
5	Turbine	11.35pm to 11.50pm	67.7	68.9	68.3	

INFERENCE	As per KSPCB Standards, Report Status :- In the all locations Noise level is within the limits
-----------	---

Verified by  
*Ramesh*

Authorized Signature  
*K. S. S. S.*



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Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No** : Mob : 94498 03895, (0) : 08392-255169,

**E-mail** : msvbellary2018@gmail.com, labmsv@gmail.com **Website** : www.msvbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No:MSVAL/2022/2856

Issued Date: 14.03.2022

- Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Sample Type : Borewell Water- Main Gate
- Sample Collected By : MSV Analytical Laboratories
- Particulars of Sample : Grab sample
- Sample description/condition : Good/Satisfactory
- Date of sample Receipt : 09.03.2022
- Analysis Starting date : 10.03.2022
- Analysis Completion Date : 14.03.2022
- Sample Tested as Received

## RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
<b>Physical Parameters</b>					<b>REQUIREMENT</b>	
1	Colour, Max	IS: 3025 (Part 4) - 1983 (RA:2017)	Hazen Units	<5	5	15
2	Total dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017,2540 C	mg/L	1062.0	500	2000
3	pH @ 25 <sup>o</sup> C	APHA 23 <sup>rd</sup> Edition-2017,4500 H+	-	7.24	6.5 - 8.5	6.5 - 8.5
4	Turbidity, Max	APHA 23 <sup>rd</sup> EDITION-2017, 2530 B	NTU	1.10	1	5
<b>Chemical Parameters</b>					<b>REQUIREMENT</b>	
5	Total Alkalinity as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2320 B	mg/L	196.5	200	600
6	Total Hardness as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2340 C	mg/L	270.8	200	600
7	Nitrate Nitrogen (as NO <sub>3</sub> N), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 NO <sub>3</sub>	mg/L	3.12	45	No relaxation
8	Chloride (as Cl), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-Cl <sup>-</sup> ,B	mg/L	114.6	250	1000
9	Sulphate (as SO <sub>4</sub> ), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 So <sub>4</sub>	mg/L	51.22	200	400
10	Calcium (as Ca), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500 Ca <sup>2+</sup> ,B	mg/L	62.54	75	200
11	Magnesium (as Mg), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Mg, B	mg/L	27.81	30	100
12	Fluoride (as F), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-F,D	mg/L	0.34	1.0	1.5
13	Iron (as Fe), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Fe <sup>2+</sup> ,B	mg/L	BDL	1.0	No relaxation
<b>Bacteriological Parameters</b>					<b>REQUIREMENT</b>	
14	Total coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	
15	Fecal Coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	

BDL - Below Detectable Limit, (Colour- <1 Hazen Units), ND - Not Detected IN 100ml Sample

INFERENCE	As per IS 10500:2012 Standards, Report Status: - The analyzed values for above measured parameters are within the limits.
-----------	--

Verified by

*Ramesh*



Authorized Signature

*K. S. Srinivas*

- Note: 1. The results listed only to the tested samples & applicable parameters,  
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(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,

E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.com

MSVAL/A/F/18/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/2857

Issued Date: 14.03.2022

- Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Sample Type : Krishna River Water
- Sample Collected By : MSV Analytical Laboratories
- Particulars of Sample : Grab sample
- Sample description/condition : Good/Satisfactory
- Date of sample Receipt : 09.03.2022
- Analysis Starting date : 10.03.2022
- Analysis Completion Date : 14.03.2022
- Sample Tested as Received

## RESULTS

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable Limit	Permissible limit
<b>Physical Parameters</b>					<b>REQUIREMENT</b>	
1	Colour, Max	IS: 3025 (Part 4) - 1983 (RA:2017)	Hazen Units	<5	5	15
2	Total dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017,2540 C	mg/L	578.0	500	2000
3	pH @ 25 <sup>o</sup> C	APHA 23 <sup>rd</sup> Edition-2017,4500 H+	-	7.12	6.5 - 8.5	6.5 - 8.5
4	Turbidity, Max	APHA 23 <sup>rd</sup> EDITION-2017, 2530 B	NTU	1.86	1	5
<b>Chemical Parameters</b>					<b>REQUIREMENT</b>	
5	Total Alkalinity as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2320 B	mg/L	102.4	200	600
6	Total Hardness as CaCO <sub>3</sub> , Max	APHA 23 <sup>rd</sup> EDITION-2017, 2340 C	mg/L	198.6	200	600
7	Nitrate Nitrogen (as NO <sub>3</sub> N), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 NO <sub>3</sub>	mg/L	2.58	45	No relaxation
8	Chloride (as Cl), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-Cl, B	mg/L	67.19	250	1000
9	Sulphate (as SO <sub>4</sub> ), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500 So <sub>4</sub>	mg/L	60.32	200	400
10	Calcium (as Ca), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500 Ca, B	mg/L	49.80	75	200
11	Magnesium (as Mg), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Mg, B	mg/L	18.0	30	100
12	Fluoride (as F), Max	APHA 23 <sup>rd</sup> EDITION-2017, 4500-F, D	mg/L	0.29	1.0	1.5
13	Iron (as Fe), Max	APHA 23 <sup>rd</sup> EDITION-2017, 3500-Fe, B	mg/L	BDL	1.0	No relaxation
<b>Bacteriological Parameters</b>					<b>REQUIREMENT</b>	
14	Total coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	
15	Fecal Coliforms	IS : 1622-1981 (Reaffirmed 2014)	MPN/100ml	ND	ND	

BDL - Below Detectable Limit, (Colour- <1 Hazen Units, Iron-0.05mg/L), ND - Not Detected IN 100ml Sample

INFERENCE

As per IS 10500:2012 Standards,

Report Status: - The analyzed values for above measured parameters are within the limits.

Verified by

*Ramesh*



Authorized Signature

*Long*

Note: 1. The results listed only to the tested samples & applicable parameters,

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,

E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/14/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No:TC7207220000007041F

Issue Date: 14.03.2022

- Name of the Project : M/s. Jamkhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Sample Type : Treated water (ETP)
- Sample Collected By : MSV Analytical Laboratories
- Particulars of Sample Collected : Grab Sample
- Sample description/condition : Good/Satisfactory
- Date of sample Receipt : 09.03.2022
- Analysis Starting date : 10.03.2022
- Analysis Completion Date : 14.03.2022
- Sample Tested as Received

## RESULTS

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT	TOLERANCE LIMITS AS PER KSPCB CONSENT
1	Color	IS : 3025(part-4) : 1983 (RA 2017)	Hazen	<5	-
2	Oil & Grease, Max	APHA 23 <sup>rd</sup> Edition-2017, 5520 D	mg/L	BDL	10
3	pH @ 25° C	APHA 23 <sup>rd</sup> Edition-2017, 4500 H <sup>+</sup> , B	-	6.40	5.5-8.5
4	Bio-chemical Oxygen Demand (3 days at 27°C), Max	IS-3025:1993(part 44) (RA 2009)	mg/L	38.0	100
5	Chemical Oxygen Demand	IS-3025:2006(part 58)	mg/L	120.0	-
6	Chloride as Cl	APHA 23 <sup>rd</sup> Edition-2017, 4500-Cl	mg/L	198.4	-
7	Total Dissolved solids, Max	APHA 23 <sup>rd</sup> Edition-2017, 2540 C	mg/L	1260.0	2100
8	Total Suspended solids, Max	APHA 23 <sup>rd</sup> Edition-2017, 2540 F	mg/L	26.0	100

BDL: Below detectable limit, ( Oil & Grease – 1.0 mg/L)

<b>INFERENCE</b>	As per KSPCB Consent Standards, Report Status: - The analyzed values for above measured parameters are within the limits.
------------------	--

Verified by  
*Ramesh*

Authorized Signature

*[Signature]*



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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvlabellary.com



MSVAL/A/F/14/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No:TC7207220000007042F

Issue Date: 14.03.2022

1. Name of the Project : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Type : Untreated water (ETP)
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of Sample Collected : Grab Sample
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 09.03.2022
7. Analysis Starting date : 10.03.2022
8. Analysis Completion Date : 14.03.2022
9. Sample Tested as Received

## RESULTS

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT
1	Color	IS : 3025(part-4) : 1983 (RA 2017)	Hazen	<10
2	pH @ 25 <sup>o</sup> C	APHA 23 <sup>rd</sup> Edition-2017, 4500 H <sup>+</sup> , B	-	5.22
3	Oil & Grease	APHA 23 <sup>rd</sup> Edition-2017, 5520 D	mg/L	4.0
4	Bio-chemical Oxygen Demand (3 days at 27 <sup>o</sup> C)	IS-3025:1993(part 44) (RA 2009)	mg/L	925.0
5	Chemical Oxygen Demand	IS-3025:2006(part 58)	mg/L	2716.0
6	Chloride as Cl	APHA 23 <sup>rd</sup> Edition-2017, 4500-Cl	mg/L	414.6
7	Total Dissolved solids	APHA 23 <sup>rd</sup> Edition-2017, 2540 C	mg/L	3752.0
8	Total Suspended solids	APHA 23 <sup>rd</sup> Edition-2017, 2540 F	mg/L	122.0

Verified by

*Ramesh*

Authorized Signature

*[Signature]*



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E-mail : msv.lab01@gmail.com, labmsv@gmail.com, Website : www.msvlabellary.com



MSVAL/A/F/14/03

## ANALYSIS REPORT OF SOIL

Test Report No:TC7207220000007043F

Issue Date: 14.03.2022

1. Name of the Project	:	M/s. Jamakhandi Sugars Ltd., At: Hirepadasalagi, Post: Naganur - 587301, Tq: Jamkhandi, Dist: Bagalkot
2. Sample Type	:	Soil Sample-ETP Garden
3. Sample Collected By	:	MSV Analytical Laboratories
4. Particulars of Sample Collected	:	-
5. Sample description/condition	:	Good/Satisfactory
6. Date of sample Receipt	:	09.03.2022
7. Analysis Starting date	:	10.03.2022
8. Analysis Completion Date	:	14.03.2022
9. Sample Tested as Received	:	

## RESULTS

SL.NO.	PARAMETERS	UNIT	PROTOCOL	RESULT
1	pH	-	IS 2720(Part 26) : 1987	7.96
2	Electrical Conductivity	ms/m	IS 14767 : 2000	0.622
3	Total Organic Carbon	%	IS 2720(Part 23) : 1972 (RA 2010)	0.315
4	Available Nitrogen	mg/kg	Lab SOP: MSV/SOP/S-03, Dt:5.1.2018	72.6
5	Available Phosphorous	mg/kg	Lab SOP: MSV/SOP/S-06, Dt:5.1.2018	52.8
6	Potassium as K <sub>2</sub> O	mg/kg	Lab SOP: MSV/SOP/S-11, Dt:5.1.2018	86.5

Verified by

Authorized Signature



- Note :
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**ENVIRONMENTAL STATEMENT FOR  
THE FINANCIAL YEAR  
2021-2022**

**Submitted By**



**M/s. Jamkhandi Sugars Ltd., Distillery Division**

**Post: Hirepadasalgi, Nagnur, Tal: Jamkhandi  
Dist: Bagalkot – 587301**

**Jamkhandi Sugars Ltd.,**

**ಜಮಖಂಡಿ ಶುಗರ್ಸ್ ಲಿ. ಜಮಖಂಡಿ.**

**GSTIN No : 29AAACJ8575C1ZD**



**© CUG No. 7022022148 / 149**

**CIN No. U85110KA1993PLC014570**

**JSL/Mfg/Env- Audit/2021-22/Distillery/1438**

**Date: 20.06.2022**

To,

**The Environmental Officer,  
Regional Officer  
Karnataka state pollution control Board  
Sector No.7, Bypass Road, Navanagar,  
Bagalkot -587702**

Sir,

**Subject: - submission of Environment Statement For the financial year 2021-22.**

With reference to above cited subject, we are enclosing herewith the Environment, Statement for financial year 2021-22 for our "M/s Jamkhandi Sugars ltd" Distillery Division located at Hirepadasalgi village, Nagnur Post-587301, Jamkhandi Taluk, Bagalkot District, Karnataka. Kindly acknowledge the receipt, So that we can upload the same in our company website.

Thanking You,

Yours Faithfully,  
**For Jamkhandi Sugars Limited**

**General Manger (W)**



Enclosure: - Form V

**Jamkhandi Sugars Ltd.,**

**ಜಮಖಂಡಿ ಶುಗರ್ಸ್ ಲಿ. ಜಮಖಂಡಿ.**

**GSTIN No : 29AAACJ8575C1ZD**



**© CUG No. 7022022148 / 149**

**CIN No. U85110KA1993PLC014570**

**JSL/Mfg/Env- Audit-Sugar/2021-22/Distillery/1435 .**

**Date: 20.06.2022**

**To,**

**The member Secretary  
Karnataka state pollution control Board  
#48 Parisar Bhavan 4<sup>th</sup> and 5<sup>th</sup> Floor,  
Church Street  
Bangalore-560001**

Submitted through: Environmental Officer, Regional Office, KSPCB, Bagalkot.

Subject: - submission of Environment Statement For the financial year 2021-22-Reg.

R/sir,

With reference to above cited subject, we are enclosing herewith the Environment Statement for financial year 2021-22 for our "M/s Jamkhandi Sugars ltd" located at Hirepadasalgi village, Nagnur Post-587301, Jamkhandi Taluk, Bagalkot District, Karnataka. Kindly acknowledge the receipt, So that we can upload the same in our company website.

Thanking You,

Yours Faithfully,  
**For Jamkhandi Sugars Limited**

  
**General Manger (W)**



Encl: Two copies of Environmental Statement.



**ENVIRONMENTAL STATEMENT FORM-V**  
**(See rule 14)**

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL**  
**YEAR ENDING 31 ST MARCH 2021**

**PART- A**

i.	Name and address of the owner/ occupier of the industry	<b>V.Sivaprakasam.</b> <b>Managing Director</b> <b>M/s Jamkhandi Sugars Ltd.Distillery</b> <b>Division</b> <b>Post: Hirepadasalgi, Nagnur,</b> <b>Tal: Jamkhandi</b> <b>Dist: Bagalkot - 587301</b>
<b>Operation or Process</b>		
ii.	Industry category Primary-(STC Code) Secondary- (STC Code)	<b>Primary-(SIC CODE)-2000</b> <b>Secondary-(SIC CODE)-2061</b> <b>Category : Red , Size: Large</b>
iii.	Production Category-Units	<b>60 + 90 KLPD Total spirit</b>
iv.	Year of establishment	<b>December-2017</b>
V	Date of Last Environmental statement submitted.	<b>20.05.2021</b>
VI	No. of Employees	<b>64</b>

## PART-B

### Water and Raw Material Consumption

#### 1. Water Consumption (cum/day)

Operation	During the Previous financial year 2020-21	During the current financial year 2021-22
Process	532	590
Cooling (including washing and boiler feed)	115	120
Domestic	04	06

#### 2. PRODUCTS

Name of the Product	Process water consumption per unit of Product Output (KL/KL of Sprit Produced)	
	During the previous financial year 2020-21	During the current financial year 2021-22
Rectified Spirit	3.04	5.8

#### 3. Raw Material Consumption:

Raw Material	Product	Consumption of raw material per unit of output	
		During the previous financial year 2020-21	During the current financial year 2021-22
Molasses	Rectified Spirit	1.664	3.07
Yeast used kg		0.0012	0.00058
Urea		--	--
DAP		--	--
Antifoam kg		0.0099	0.00047
Bleaching power		--	----
Steam/KL		4.847	533
Power (KWH/KL)		450	510
	By -Product		
	Fusel oil	NIL	Nil

Product	Total quantity produced in liters 2020-21	Total quantity produced in liters 2021-22
Rectified Spirit	<b>12118734</b>	<b>31324659.00</b>
Extra Neutral Alcohol	<b>5090340</b>	<b>253925.00</b>
Impure Alcohol	<b>358094</b>	<b>14758.00</b>
Ethanol	<b>10826943</b>	<b>29788888.00</b>
Fusel Oil	<b>Nil</b>	<b>Nil</b>

### PART-C

#### **Pollution discharged to environment / unit of output**

(Parameters as specified in the consent issued)

Pollutants	Quantity KL/Day	Concentration	Concentration Discharged (Mass/Day)	Percentage of variation prescribed standards with reasons
Waste water( <b>BOD</b> )	430	Nil	NA	Spent wash generated after Multiple effect Evaporation is utilized in incineration Boiler
AIR -Stack -1		Copy Enclosed		

## PART-D

### HAZARDOUS WASTE

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

Hazardous Waste	Total Quantity (T/annum)	
	During the previous Financial Year 2020-21	During the Current Financial Year 2021-22
c) From Process	NIL	NIL
d) From Pollution Control facilities		

## PART-E

### SOLID WASTE

SR.NO	Solid waste	Total Quantity	
		During the previous Financial Year 2020-21	During the Current Financial Year 2021-22
1	From Process (by products) a) Yeast Sludge	1169	3050
II	From Pollution Control facility a) Ash	3400	4300
III	c) Quantity recycled or reutilized within the unit	Ash sold to brick manufactures.	Ash sold to brick manufactures.

## 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.

Hazardous waste: Not Applicable.

## 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. 1200 KL/Day spent wash is concentrated two stage evaporation is utilized in the incineration boiler.

## **PART-H**

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

Industry has commissioned the Incineration boiler of 22 TPH & 23 TPH for utilization of spent wash after multiple effect evaporation in incineration boiler as fuel. Bag filter is installed for emission control for the suspended particulate matter through flue gas.

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**

Any other particulars in respect of environmental protection and abatement of pollution.

Condensate Polishing Unit (RO process) is provided for the treatment of process condensate from MEE and spent less. The RO out let is utilized for cooling tower make up water.

This year additional tree plantation of 1000 trees was carried out for the minimization of fugitive emissions.

**Date: - 20.06.2022**

**Place: - Hirepadasalgi**

**For Jamkhandi Sugars Ltd**



A handwritten signature in blue ink, consisting of stylized, overlapping loops and lines.

**General manger (W)**



# MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL

(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1<sup>st</sup> & 2<sup>nd</sup> Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,

E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



FMSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000009775F

Issued Date: 18.04.2022

- M/s. Jamakhandi Sugars Ltd.,(Distillery Unit)**  
**At: Hirepadasalagi, Post: Naganur - 587301,**  
**Tq: Jamkhandi, Dist: Bagalkot**
- Name of the Project : At: Hirepadasalagi, Post: Naganur - 587301, Tq: Jamkhandi, Dist: Bagalkot
  - Name of the location : Near Main Gate
  - Sample Collected By : MSV Analytical Laboratories
  - Particulars of the sample collected : Sample collected with RDS 460BL/Fine Particulate Sampler
  - Date of Sample Receipt : 13.04.2022
  - Analysis Starting Date : 14.04.2022
  - Analysis Completion Date : 18.04.2022
  - Sample Tested as Received

### RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM <sub>10</sub>	IS-5182(Part-23) – 2006	µg/m <sup>3</sup>	8 hrs	90.45	100
2	Particulate Matter PM <sub>2.5</sub>	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m <sup>3</sup>	8 hrs	38.06	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2) – 2001	µg/m <sup>3</sup>	8 hrs	5.31	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6) - 2006	µg/m <sup>3</sup>	8 hrs	10.44	80

<b>INFERENCE</b>	<b>As per NAAQ Standards</b> <b>Report Status :- The analyzed value for above measured parameter is within the limits</b>
------------------	--

Verified by

*Ramesh*

Authorized Signature

*Ramesh*



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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.  
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/16/03

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000009776F

Issued Date: 18.04.2022

1. Name of the Project	:	M/s. Jamakhandi Sugars Ltd., (Distillery Unit)
2. Name of the location	:	At: Hirepadasalagi, Post: Naganur - 587301,
3. Sample Collected By	:	Tq: Jamkhandi, Dist: Bagalkot
4. Particulars of the sample collected	:	Near CPU Unit
5. Date of Sample Receipt	:	MSV Analytical Laboratories
6. Analysis Starting Date	:	Sample collected with RDS 460BL/Fine Particulate Sampler
7. Analysis Completion Date	:	13.04.2022
8. Sample Tested as Received	:	14.04.2022
	:	18.04.2022

## RESULTS

S.NO	PARAMETERS	PROTOCOLS	UNITS	DURATION OF MONITORING	RESULTS	NAAQ STANDARDS
1	Particulate Matter PM10	IS-5182(Part-23) – 2006	µg/m <sup>3</sup>	8 hrs	76.85	100
2	Particulate Matter PM2.5	LAB SOP: MSVAL/SOP/A/05, Dt: 2.7.2012	µg/m <sup>3</sup>	8 hrs	21.47	60
3	Sulphur Dioxide as SOx	IS-5182(Part-2) – 2001	µg/m <sup>3</sup>	8 hrs	5.19	80
4	Oxides of Nitrogen as NOx	IS-5182(Part-6) - 2006	µg/m <sup>3</sup>	8 hrs	10.32	80

INFERENCE	As per NAAQ Standards Report Status :- The analyzed value for above measured parameter is within the limits
-----------	--

Verified by

*Ramul*

Authorized Signature

*Ramul*



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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



TC-7207

MSVAL/A/F/18/03

## ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000009777F

Issued Date: 18.04.2022

1. Name of the Project : M/s. Jamkhandi Sugars Ltd.,(Distillery Unit)  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Name of the location : 22+23 TPH Boiler(Common Chimney)
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sample collected : Stack Sampler
5. Date of Sample Receipt : 13.04.2022
6. Analysis Starting Date : 14.04.2022
7. Analysis Completion Date : 18.04.2022
8. Sample Tested as Received

### GENERAL DETAILS

Date of Monitoring	13.04.2022
Fuel Used	Coal + Bagasse+ Conc. Spent wash
Stack Temperature (°C)	131
Velocity (m/s)	7.93
Height (m)	80
Diameter (m)	3.5

### RESULTS

PARAMETERS	PROTOCOL	UNIT	RESULT	KSPCB STANDARDS
Particulate Matter	IS-11255(Part 1) - 1985	mg/Nm <sup>3</sup>	87.15	150
Sulphur dioxide	IS-11255(Part 2) - 1985	mg/Nm <sup>3</sup>	12.39	-
Nitrogen dioxide	IS-11255(Part 7) - 2005	mg/Nm <sup>3</sup>	23.24	-

INFERENCE	As per KSPCB Standards
	Report Status :- The analyzed value for above measured parameter is within the limits

Verified by

Authorized Signature



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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/17/04

## NOISE LEVEL MONITORING REPORT

Test Report No: TC720722000009778F

Issued Date: 18.04.2022

1. Name of the Project : M/s. Jamkhandi Sugars Ltd.,(Distillery Unit)  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of the sample collected : Noise meter
4. Date of Monitoring : 13.04.2022
5. Report Date : 18.04.2022
6. Method Adopted : Instrument Manual Method

S.No	Sample Location	Time Frequency	RESULTS			KSPCB limits in dB(A) Leq
			Min in dB(A) Leq	Max in dB(A) Leq	Avg. in dB(A) Leq	
Day Time						
1	Near Main Gate	03.20pm to 03.35pm	71.6	72.9	72.3	75 (6.00am to 10.00pm)
2	Near Evaporation Section	03.40pm to 03.55pm	72.3	73.4	72.9	
3	Near Distillation Section	04.05pm to 04.20pm	68.1	72.1	70.1	
4	Near Laboratory	04.30pm to 04.45pm	66.7	70.1	68.4	
5	Near Ware House	05.00pm to 05.15pm	70.3	72.8	71.6	

INFERENCE	As per KSPCB Standards, Report Status :- In the all locations Noise level is within the limits
-----------	---

Verified by

*Ramul*

Authorized Signature

*Ramul*



- Note :
1. The results listed only to the tested samples & applicable parameters,
  2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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TC-7207

MSVAL/A/F/17/04

## NOISE LEVEL MONITORING REPORT

Test Report No: TC720722000009778F

Issued Date: 18.04.2022

- Name of the Project : M/s. Jamakhandi Sugars Ltd.,(Distillery Unit)  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Sample Collected By : MSV Analytical Laboratories
- Particulars of the sample collected : Noise meter
- Date of Monitoring : 13.04.2022
- Report Date : 18.04.2022
- Method Adopted : Instrument Manual Method

S.No	Sample Location	Time Frequency	RESULTS			KSPCB limits in dB(A) Leq
			Min in dB(A) Leq	Max in dB(A) Leq	Avg. in dB(A) Leq	
Night Time						
1	Near Main Gate	10.00pm to 10.15pm	64.3	67.1	65.7	70 (10.00pm to 6.00am)
2	Near Evaporation Section	10.20pm to 10.35pm	67.4	68.4	67.9	
3	Near Distillation Section	10.40pm to 10.55pm	66.9	68.7	67.8	
4	Near Laboratory	11.05pm to 11.20pm	60.1	66.6	63.4	
5	Near Ware House	11.30pm to 11.45pm	63.7	67.5	65.6	

INFERENCE	As per KSPCB Standards, Report Status :- In the all locations Noise level is within the limits
-----------	---

Verified by  
*Ramesh*

Authorized Signature

*Ramesh*



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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com Website : www.msvalbellary.com

MSVAL/A/F/14/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No:MSVAL/2022/4261

Issue Date: 18.04.2022

1. Name of the Project : M/s. Jamakhandi Sugars Ltd.,(Distillery Unit)  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Type : Raw Spent Wash
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of Sample Collected : Grab
5. Sample description/condition : Good/Satisfactory
6. Date of sample Receipt : 13.04.2022
7. Analysis Starting date : 14.04.2022
8. Analysis Completion Date : 18.04.2022
9. Sample Tested as Received

## RESULTS

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT
1	pH @ 25 <sup>o</sup> C	APHA 23 <sup>rd</sup> Edition-2017, 4500 H <sup>+</sup> , B	-	4.23
2	Chloride as Cl	APHA 23 <sup>rd</sup> Edition-2017, 4500-Cl	mg/L	16710.0
3	Total solids	APHA 23 <sup>rd</sup> Edition-2017, 2540 C	mg/L	150400.0
4	Total Volatile solids	IS-3025(part 22)	mg/L	59290.0
5	Total Inorganic solids	IS-3025(part 18)	mg/L	112680.0
6	Bio-chemical Oxygen Demand (3 days at 27 <sup>o</sup> C)	IS-3025:1993(part 44) (RA 2009)	mg/L	57180.0
7	Chemical Oxygen Demand	APHA 23 <sup>rd</sup> Edition-2017, 5230 B	mg/L	141440.0
8	Sulphate as SO <sub>4</sub>	APHA 23 <sup>rd</sup> Edition-2017, 4500-SO <sub>4</sub>	mg/L	12540.0
9	Potash as K	APHA 23 <sup>rd</sup> EDITION-2017, 3500-K	mg/L	14890.0

Verified by

Authorized Signature



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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com Website : www.msvalbellary.com



MSVAL/A/F/14/03

## ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/4262

Issue Date: 18.04.2022

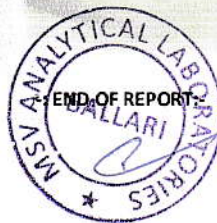
- Name of the Project : M/s. Jamakhandi Sugars Ltd., (Distillery Unit)  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
- Sample Type : Concentrated Spent Wash
- Sample Collected By : MSV Analytical Laboratories
- Particulars of Sample : Grab  
Collected
- Sample description/condition : Good/Satisfactory
- Date of sample Receipt : 13.04.2022
- Analysis Starting date : 14.04.2022
- Analysis Completion Date : 18.04.2022
- Sample Tested as Received

## RESULTS

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT
1	pH @ 25° C	APHA 23 <sup>rd</sup> Edition-2017, 4500 H <sup>+</sup> , B	-	4.83
2	Chloride as Cl	APHA 23 <sup>rd</sup> Edition-2017, 4500-Cl	mg/L	20642.8
3	Total solids	APHA 23 <sup>rd</sup> Edition-2017, 2540 C	mg/L	132580.0
4	Total Volatile solids	IS-3025(part 22)	mg/L	55800.0
5	Total Inorganic solids	IS-3025(part 18)	mg/L	110820.0
6	Bio-chemical Oxygen Demand (3 days at 27° C)	IS-3025:1993(part 44) (RA 2009)	mg/L	50430.0
7	Chemical Oxygen Demand	APHA 23 <sup>rd</sup> Edition-2017, 5230 B	mg/L	122890.0
8	Sulphate as SO <sub>4</sub>	APHA 23 <sup>rd</sup> Edition-2017, 4500-SO <sub>4</sub>	mg/L	7430.0
9	Potash as K	APHA 23 <sup>rd</sup> EDITION-2017, 3500-K	mg/L	8110.0

Verified by

Authorized Signature



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