

**Jamkhandi Sugars Ltd.,**

**ಜಮಖಂಡಿ ಶುಗರ್ಸ್ ಲಿ. ಜಮಖಂಡಿ.**

**GSTIN No : 29AAACJ8575C1ZD**



© CUG No. 7022022148 / 149

CIN No. U85110KA1993PLC014570

**No: JSL/Mfg/KSPCB/Env't Statement Sugar/2025-26/ 607**

**Date: 13.05.2025**

**To,**

**The Member Secretary**

**Head Office, Karnataka state pollution control Board**

**#49, "Parisara Bhavana" 4<sup>th</sup> and 5<sup>th</sup> Floor,**

**Church Street, Bangalore-560001**

**Subject: - Submission of Environmental Statement For the financial year 2024-25-Reg.**

**R/sir,**

With reference to the above subject, we are enclosing herewith the Environmental Statement for financial year 2024-25 for our "M/s Jamkhandi Sugars Ltd" (Sugar 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 M/s, Jamkhandi Sugars Limited**

**Sr.General Manager(Works)**



**Encl:** Environmental Statement (Form 5) for the year 2024-25 with third party monitoring reports.

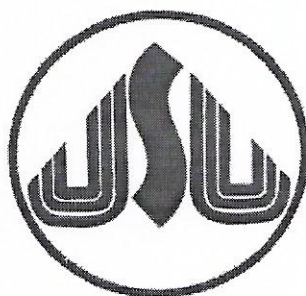
**Copy To:**

1. The Environmental Officer, Regional Office, Karnataka State Pollution Control Board, Sector No 7, Bypass Road, Navanagar, Bagalkot - 587101

2. The Senior Environmental Officer, Zonal Office, Karnataka State Pollution Control Board, Ground floor, Plot No 4, Lakkamanahalli Industrial Area, P.B Road, Dharwad - 580004.

# **ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2024-2025**

**Submitted By**



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

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

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

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL  
YEAR ENDING 31 ST MARCH 2025**

**PART- A**

i.	Name and address of the owner/ occupier of the industry	V.Sivaprakasam. Managing Director M/s Jamkhandi Sugars Ltd.,(Unit I) Post: Hirepadasalgi, Nagnur, Tal: Jamkhandi Dist: Bagalkot - 587301
<b>Operation or Process</b>		
ii.	Industry category Primary-(STC Code) Secondary- (STC Code)	Primary-(STC CODE)-2000 Secondary-(STC CODE)-2061 Category : Red , Size: Large
iii.	Production Category-Units	White crystal sugar with sugar cane crushing capacity of 11500 TCD and 34 MW/hr cogeneration
iv.	Year of establishment	2001
v.	Date of Last Environmental Statement submitted	30.09.2024
vi.	No. of Employees	521 No's

	Crushing season 2023-24	Crushing season 2024-25
Crushing in MT	1139272	876589
Sugar in MT	80315	57929
Crop day	131	103



## PART-B

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

Source	During the previous financial year 2023-24	During the current financial year 2024 -25
Process	138	145
Cooling (including washing and boiler feed)	580	572
Domestic	65	74

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

Name of the Product	Process water consumption per unit of Product Output M3/MT of sugar	
	During the previous financial year 2023-24	During the current financial year 2024-25
Sugar & process cooling	1.17	1.27
Domestic	0.10	0.13

### ii. Raw Material Consumption

Raw Materials	Product	Consumption of raw material per unit of output	
		During the previous financial year 2023-24	During the current financial year 2024-25
Sugar Cane	Crystal white Sugar	14.18	15.13
Lime		0.014	0.012
O.P. Acid		0.00028	0.00016
Sulfur		0.00046	0.00052
Caustic Soda		0.0052	0.0049
Lubricants (Kgs/MT of Sugar cane crushed)		0.0018	0.0021



## PART-C

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

(Parameters as specified in the table)

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 &amp; 70 TPH Boiler with chimney of 90 mts, 57 mts &amp; 80 mts pass through ESP &amp; Wet scrubber respectively before emitting in to atmosphere</li><li>720 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 2023-24	During the Current Financial Year 2024-25
a) From Process	136 Ltrs/ Annum used within the premises as lubricants	212 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 2023-24		During the Current Financial Year 2024-25	
1.					
	a) From Process	Ash	3524.65 MT	Ash	2857.71 MT
		Press mud	20962.00 MT	Press mud	18033.00 MT
	b) From Pollution Control facility (Organic Sludge)	ETP sludge 42 MT		ETP sludge 38 MT	
	c) Quantity recycled or reutilized within the unit	Bagasse = 234978.44 MT		Bagasse = 190514.00 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 720 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 212 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

#### 1. 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.



## 2. 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.

## 3. Solid Waste Reuse

Bagasse 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 20 Lakhs this year. This includes the cost of chemicals, machinery repairs, and replacement of parts, manpower.

## **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 growing more trees in the premises.

Date: - 13.05.2025

Place: - Hirepadasalgi



For Jamkhandi Sugars Ltd

Sr.General Manager(Works)





# MSV Analytical Laboratories

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

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

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 : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



TC- 4071

MSVAL/AA/RF/01/00

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : 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 sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 12.02.2025
7. Date of Sample Receipt : 13.02.2025
8. Sample Code : 4857
9. Analysis Starting Date : 13.02.2025
10. Analysis Completion Date : 17.02.2025
11. Report Issue Date : 17.02.2025
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Ambient Air ULR No: TC407125000003312F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM <sub>10</sub>	IS-5182(Part-23)	µg / m <sup>3</sup>	72.36	100
2	Particulate Matter PM <sub>2.5</sub>	IS-5182(Part-24)	µg / m <sup>3</sup>	29.14	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2)	µg / m <sup>3</sup>	7.23	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6)	µg / m <sup>3</sup>	13.57	80

INFERENCE	As per NAAQS Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will be 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 : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



TC- 4071

MSVAL/AA/RF/01/00

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Name of the location : Near Sugar House
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 12.02.2025
7. Date of Sample Receipt : 13.02.2025
8. Sample Code : 4859
9. Analysis Starting Date : 13.02.2025
10. Analysis Completion Date : 17.02.2025
11. Report Issue Date : 17.02.2025
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Ambient Air ULR No: TC407125000003314F

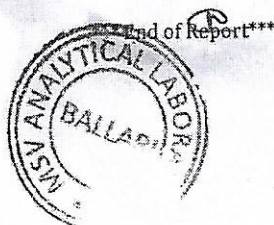
S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM <sub>10</sub>	IS-5182(Part-23)	µg / m <sup>3</sup>	68.21	100
2	Particulate Matter PM <sub>2.5</sub>	IS-5182(Part-24)	µg / m <sup>3</sup>	21.45	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2)	µg / m <sup>3</sup>	6.59	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6)	µg / m <sup>3</sup>	12.38	80

INFERENCE	As per NAAQS Standards, Report Status :- The analyzed values for above measured parameter are within the limits
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Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters.  
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



TC- 4071

MSVAL/AA/RF/01/00

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Name of the location : Near ETP Plant
3. Sample Collected By : MSV Analytical Laboratories
4. Particulars of the sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 12.02.2025
7. Date of Sample Receipt : 13.02.2025
8. Sample Code : 4860
9. Analysis Starting Date : 13.02.2025
10. Analysis Completion Date : 17.02.2025
11. Report Issue Date : 17.02.2025
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Ambient Air ULR No: TC407125000003315F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM <sub>10</sub>	IS-5182(Part-23)	µg / m <sup>3</sup>	76.60	100
2	Particulate Matter PM <sub>2.5</sub>	IS-5182(Part-24)	µg / m <sup>3</sup>	29.23	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2)	µg / m <sup>3</sup>	7.84	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6)	µg / m <sup>3</sup>	13.92	80

INFERENCE	As per NAAQS Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



Note : 1. The results listed only to the tested samples & applicable parameters.  
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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



TC- 4071

MSVAL/AA/RF/01/00

## ANALYSIS REPORT OF AMBIENT AIR QUALITY

1. Name and Address of Industry : M/s. Jamakhandi 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 sampling Equipments : Sample collected with FDS GTI-131& RDS APM-460
5. Duration of Monitoring : 8 Hours
6. Date of Monitoring : 12.02.2025
7. Date of Sample Receipt : 13.02.2025
8. Sample Code : 4858
9. Analysis Starting Date : 13.02.2025
10. Analysis Completion Date : 17.02.2025
11. Report Issue Date : 17.02.2025
12. Sampling Protocol : IS 5182: Part 14: 2019

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Ambient Air ULR No: TC407125000003313F

S.No	Parameter	Protocols	Units	Result in Avg.	Standards
1	Particulate Matter PM <sub>10</sub>	IS-5182(Part-23)	µg / m <sup>3</sup>	58.33	100
2	Particulate Matter PM <sub>2.5</sub>	IS-5182(Part-24)	µg / m <sup>3</sup>	20.15	60
3	Sulphur Dioxide as SO <sub>x</sub>	IS-5182(Part-2)	µg / m <sup>3</sup>	4.87	80
4	Oxides of Nitrogen as NO <sub>x</sub>	IS-5182(Part-6)	µg / m <sup>3</sup>	10.64	80

INFERENCE	As per NAAQS Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory



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



TC- 4071

MSVAL/SE/RF/01/00

## ANALYSIS REPORT FOR SOURCE EMISSION

1. Name and Address of the Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Stack ID : 90 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Monitoring : 12.02.2025
5. Date of Sample Receipt : 13.02.2025
6. Sample Code : 4861
7. Analysis Starting Date : 13.02.2025
8. Analysis Completion Date : 17.02.2025
9. Report Issue date : 17.02.2025

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Stack emission ULR No: TC407125000003316F

## GENERAL DETAILS

Instrument Used for Sampling	Sample collected with GTI-121
Fuel Used	Bagasse
Ambient Temperature (°C)	31
Stack Temperature (°C)	144
Velocity (m/s)	9.26
Height (m)	90
Diameter (m)	3.0
Cross sectional area (m <sup>2</sup> )	7.0717

## RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS-5182(Part-23)	mg/Nm <sup>3</sup>	73.16	150
Sulphur dioxide	IS-5182(Part-23)	mg/Nm <sup>3</sup>	13.91	100
Nitrogen dioxide	IS-5182(Part-23)	mg/Nm <sup>3</sup>	34.50	50

INFERENCE	As per KSPCB Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinnna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



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



MSVAL/SE/RF/01/00

## ANALYSIS REPORT FOR SOURCE EMISSION

1. Name and Address of the Industry : M/s. Jamkhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Stack ID : 70 TPH Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Monitoring : 12.02.2025
5. Date of Sample Receipt : 13.02.2025
6. Sample Code : 4862
7. Analysis Starting Date : 13.02.2025
8. Analysis Completion Date : 17.02.2025
9. Report Issue date : 17.02.2025

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Stack emission ULR No: TC407125000003317F

## GENERAL DETAILS

Instrument Used for Sampling	Sample collected with GTI-121
Fuel Used	Bagasse
Ambient Temperature (°C)	31
Stack Temperature (°C)	132
Velocity (m/s)	8.47
Height (m)	56
Diameter (m)	3
Cross sectional area (m <sup>2</sup> )	7.0717

## RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS-5182(Part-23)	mg/Nm <sup>3</sup>	64.11	150
Sulphur dioxide	IS-5182(Part-24)	mg/Nm <sup>3</sup>	11.23	100
Nitrogen dioxide	IS-5182(Part-2)	mg/Nm <sup>3</sup>	26.62	50

INFERENCE	As per KSPCB Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



- Note: 1. The results listed only to the tested samples & applicable parameters,  
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# MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL  
(Certified by ISO 14001:2015, ISO 45001:2018, ISO 9001:2015, ISO 22000:2018)  
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



TC- 4071

MSVAL/SE/RF/01/00

## ANALYSIS REPORT FOR SOURCE EMISSION

1. Name and Address of the Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Stack ID : 70 TPH New Boiler
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Monitoring : 12.02.2025
5. Date of Sample Receipt : 13.02.2025
6. Sample Code : 4863
7. Analysis Starting Date : 13.02.2025
8. Analysis Completion Date : 17.02.2025
9. Report Issue date : 17.02.2025

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Stack emission ULR No: TC407125000003318F

## GENERAL DETAILS

Instrument Used for Sampling	Sample collected with GTI-121
Fuel Used	Bagasse
Ambient Temperature (°C)	31
Stack Temperature (°C)	136
Velocity (m/s)	8.69
Height (m)	80
Diameter (m)	3.5
Cross sectional area (m <sup>2</sup> )	9.6254

## RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS-5182(Part-23)	mg/Nm <sup>3</sup>	56.58	150
Sulphur dioxide	IS-5182(Part-24)	mg/Nm <sup>3</sup>	11.26	100
Nitrogen dioxide	IS-5182(Part-2)	mg/Nm <sup>3</sup>	25.12	50

INFERENCE	As per KSPCB Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



Note: 1. The results listed only to the tested samples & applicable parameters,  
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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, (0) : 08392-255169,

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



TC- 4071

MSVAL/SE/RF/01/00

## ANALYSIS REPORT FOR SOURCE EMISSION

1. Name and Address of the Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Stack ID : 720 KVA DG Set
3. Sample Collected By : MSV Analytical Laboratories
4. Date of Monitoring : 12.02.2025
5. Date of Sample Receipt : 13.02.2025
6. Sample Code : 4864
7. Analysis Starting Date : 13.02.2025
8. Analysis Completion Date : 17.02.2025
9. Report Issue date : 17.02.2025

Discipline: Chemical Group: Atmospheric Pollution Sub Group: Stack emission ULR No: TC407125000003319F

### GENERAL DETAILS

Instrument Used for Sampling	Sample collected with GTI-121
Fuel Used	Diesel
Ambient Temperature (°C)	31
Stack Temperature (°C)	132
Velocity (m/s)	8.68
Height (m)	20
Diameter (m)	0.3
Cross sectional area (m <sup>2</sup> )	0.0707

### RESULTS

Parameters	Protocol	Unit	Result	Standard
Particulate Matter	IS-5182(Part-23)	mg/Nm <sup>3</sup>	41.57	150
Sulphur dioxide	IS-5182(Part-24)	mg/Nm <sup>3</sup>	10.60	100
Nitrogen dioxide	IS-5182(Part-2)	mg/Nm <sup>3</sup>	19.41	50

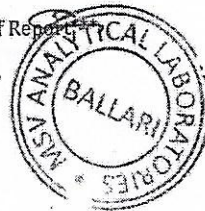
INFERENCE	As per KSPCB Standards,
	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



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, (0) : 08392-255169,

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



TC- 4071

MSVAL/AN/RF/01/00

## AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of Sample Collected : Noise meter
4. Date of Monitoring : 12.02.2025
5. Report Issue Date : 17.02.2025
6. Method Adopted : IS 9989: 2020

Discipline: Chemical

Group: Atmospheric Pollution

Sub Group: Ambient Noise

ULR NO: TC407125000003320F

S.No	Sample Location	Sample Code	Time Frequency	Results (Day time)			
				Maximum in dB(A) Leq	Minimum in dB(A) Leq	Leq. in dB(A)	Permissible limits in dB(A) Leq
1	Near Boiling House	4865	02.05pm to 02.20pm	69.4	65.1	66.9	75 (6.00am to 10.00pm)
2	Near Mill Station	4866	02.30pm to 02.45pm	70.0	66.4	68.5	
3	Near Sugar House	4867	02.55pm to 03.10pm	66.5	62.9	64.6	
4	Near Central Fugal	4868	03.20pm to 03.35pm	72.6	70.4	71.1	
5	Near Turbine	4869	03.45pm to 04.00pm	71.8	69.9	70.8	

### INFERENCE

As per KSPCB Standards,

Report Status :- The Noise level for the all locations is within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



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E-mail : msvabellary2018@gmail.com, labmsv@gmail.com, Website : www.msvabellary.com



TC- 4071

MSVAL/AN/RF/01/00

## AMBIENT NOISE LEVEL MONITORING REPORT

1. Name of the industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Collected By : MSV Analytical Laboratories
3. Particulars of Sample Collected : Noise meter
4. Date of Monitoring : 12.02.2025
5. Report Issue Date : 17.02.2025
6. Method Adopted : IS 9989: 2020

Discipline: Chemical

Group: Atmospheric Pollution

Sub Group: Ambient Noise

ULR NO: TC407125000003321F

S.No	Sample Location	Sample Code	Time Frequency	Results (Night time)			
				Maximum in dB(A) Leq	Minimum in dB(A) Leq	Leq. in dB(A)	Permissible limits in dB(A) Leq
1	Near Boiling House	4870	10.15pm to 10.30pm	58.1	56.4	57.2	70 (10.00pm to 6.00am)
2	Near Mill Station	4871	10.40pm to 10.55pm	59.3	57.1	58.5	
3	Near Sugar House	4872	11.15pm to 11.30pm	54.0	50.5	52.7	
4	Near Central Fugal	4873	11.40pm to 11.55pm	61.7	59.6	60.4	
5	Near Turbine	4874	12.05pm to 12.20am	63.8	61.3	62.3	

### INFERENCE

As per KSPCB Standards,

Report Status :- The Noise level for the all locations is within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



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



TC- 4071

MSVAL/W/RF/01/00

## ANALYSIS REPORT OF WATER QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Marked as : Treated water
3. Name of the location : Effluent Treatment Plant
4. Sample Collected By : MSV Analytical Laboratories
5. Sample quantity : Pet Bottle, 2 Liter.
6. Sample Description/condition : Water/Good
7. Date of Sample Collection : 12.02.2025
8. Date of sample receipt : 13.02.2025
9. Sample Code : 4875
10. Analysis Starting Date : 13.02.2025
11. Analysis Completion Date : 17.02.2025
12. Report Issue Date : 17.02.2025

Discipline: Chemical

Group: Pollution & Environment

Sub Group: Waste Water

ULR NO: TC407125000003322F

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT	Tolerance Limits (As per KSPCB Consent standards for Land for Irrigation)
1	Color	IS : 3025(part-4)	Hazen	<5	-
2	pH @ 25°C	4500 H+ B APHA 23 <sup>rd</sup> Edition	-	7.35	5.5 - 8.5
3	Oil & Grease	5520 D APHA 23 <sup>rd</sup> Edition	mg/L	<1.0	Max 10
4	Bio-chemical Oxygen Demand (3 days at 27°C)	IS-3025(part 44)	mg/L	38.0	Max 100
5	Chemical Oxygen Demand	5230 B APHA 23 <sup>rd</sup> Edition	mg/L	140.0	-
6	Total Suspended solids	2540 F APHA 23 <sup>rd</sup> Edition	mg/L	23.0	Max 100
7	Total Dissolved solids	2540 C APHA 23 <sup>rd</sup> Edition	mg/L	1136.0	Max 2100
8	Chloride as Cl	4500 Cl B APHA 23 <sup>rd</sup> Edition	mg/L	81.10	-

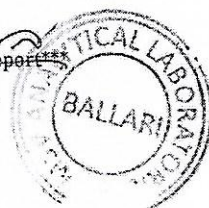
INFERENCE	As per KSPCB Standards
	Report Status: - The analyzed values for above measured parameters are within the limits.

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



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

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



TC- 4071

MSVAL/W/RF/01/00

## ANALYSIS REPORT OF WATER QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Marked as : Untreated water
3. Name of the location : Effluent Treatment Plant
4. Sample Collected By : MSV Analytical Laboratories
5. Sample quantity : Pet Bottle, 2 Liter.
6. Sample Description/condition : Water/Good
7. Date of Sample Collection : 12.02.2025
8. Date of sample receipt : 13.02.2025
9. Sample Code : 4876
10. Analysis Starting Date : 13.02.2025
11. Analysis Completion Date : 17.02.2025
12. Report Issue Date : 17.02.2025

Discipline: Chemical

Group: Pollution & Environment

Sub Group: Waste Water

ULR NO: TC40712500003323F

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT
1	Color	IS : 3025(part-4)	Hazen	<10
2	pH @ 25°C	4500 H+ B APHA 23 <sup>rd</sup> Edition	-	6.52
3	Oil & Grease	5520 D APHA 23 <sup>rd</sup> Edition	mg/L	3.0
4	Bio-chemical Oxygen Demand (3 days at 27°C)	IS-3025(part 44)	mg/L	596.0
5	Chemical Oxygen Demand	5230 B APHA 23 <sup>rd</sup> Edition	mg/L	1710.0
6	Total Suspended solids	2540 F APHA 23 <sup>rd</sup> Edition	mg/L	236.0
7	Total Dissolved solids	2540 C APHA 23 <sup>rd</sup> Edition	mg/L	1652.0
8	Chloride as Cl	4500 Cl B APHA 23 <sup>rd</sup> Edition	mg/L	175.2

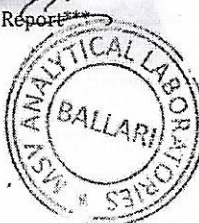
Analysed by

Authorized Signatory

B.Chinna Lingana Gouda

Chief executive of the laboratory

\*\*\* End of Report \*\*\*



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

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



TC- 4071

MSVAL/W/RF/01/00

## ANALYSIS REPORT OF WATER QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Marked as : Treated water
3. Name of the location : Effluent Treatment Plant
4. Sample Collected By : MSV Analytical Laboratories
5. Sample quantity : Pet Bottle, 2 Liter.
6. Sample Description/condition : Water/Good
7. Date of Sample Collection : 12.02.2025
8. Date of sample receipt : 13.02.2025
9. Sample Code : 4875
10. Analysis Starting Date : 13.02.2025
11. Analysis Completion Date : 17.02.2025
12. Report Issue Date : 17.02.2025

Discipline: Chemical

Group: Pollution & Environment

Sub Group: Waste Water

ULR NO: TC407125000003322F

S.NO	PARAMETERS	PROTOCOL	UNIT	RESULT	Tolerance Limits (As per KSPCB Consent standards for Land for Irrigation)
1	Color	IS : 3025(part-4)	Hazen	<5	-
2	pH @ 25°C	4500 H+ B APHA 23 <sup>rd</sup> Edition	-	7.35	5.5 - 8.5
3	Oil & Grease	5520 D APHA 23 <sup>rd</sup> Edition	mg/L	<1.0	Max 10
4	Bio-chemical Oxygen Demand (3 days at 27°C)	IS-3025(part 44)	mg/L	38.0	Max 100
5	Chemical Oxygen Demand	5230 B APHA 23 <sup>rd</sup> Edition	mg/L	140.0	-
6	Total Suspended solids	2540 F APHA 23 <sup>rd</sup> Edition	mg/L	23.0	Max 100
7	Total Dissolved solids	2540 C APHA 23 <sup>rd</sup> Edition	mg/L	1136.0	Max 2100
8	Chloride as Cl	4500 Cl B APHA 23 <sup>rd</sup> Edition	mg/L	81.10	-

INFERENCE

As per KSPCB Standards

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

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



Note : 1. The results listed only to the tested samples & applicable parameters,  
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TC- 4071

MSVAL/W/RF/01/00

## ANALYSIS REPORT OF WATER QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Marked as : Borewell Water
3. Name of the location : Main Gate
4. Sample Collected By : MSV Analytical Laboratories
5. Sample quantity : Pet Bottle, 2 Liter.
6. Sample Description/condition : Good/satisfactory
7. Date of Sample Collection : 12.02.2025
8. Date of sample receipt : 13.02.2025
9. Sample Code : 4877
10. Analysis Starting Date : 13.02.2025
11. Analysis Completion Date : 17.02.2025
12. Report Issue Date : 17.02.2025

Discipline: Chemical

Group: Water

Sub Group: Ground Water

ULR NO: TC407125000003324F

Discipline: Chemical		Group: Water		Sub group: Drinking		IS 10500-2018	
S.No	Parameters	Protocol	Unit	Result	Acceptable limit	Permissible limit	
Physical Parameters							
1	Color	IS 3025 (Part-4)	Hazen	<1.0	Max 5	Max 15	
2	pH @ 25°C	IS 3025 (Part 11)	---	7.16	6.5-8.5	No Relaxation	
3	Total dissolved solids	IS 3025 (Part 16)	mg/L	623.0	Max 500	Max 2000	
4	Turbidity	IS 3025 (Part 10)	NTU	0.15	Max 1	Max 5	
Chemical Parameters							
5	Total Alkalinity	IS 3025: (Part 23)	mg/L	234.1	Max 200	Max 600	
6	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21)	mg/L	375.8	Max 200	Max 600	
7	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34)	mg/L	3.64	Max 45	No relaxation	
8	Chloride (as Cl)	IS 3025 (Part 32)	mg/L	78.6	Max 250	Max 1000	
9	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24)	mg/L	49.2	Max 200	Max 400	
10	Calcium (as Ca)	IS 3025 (Part 40)	mg/L	106.3	Max 75	Max 200	
11	Magnesium (as Mg)	IS 3025 (Part 46)	mg/L	26.74	Max 30	Max 100	
12	Fluoride (as F)	IS 3025 (Part 60)	mg/L	0.71	Max 1.0	Max 1.5	
13	Iron (as Fe)	3120 B APHA 23 <sup>rd</sup> Edition	mg/L	0.06	Max 0.3	No relaxation	

### INFERENCE

As per IS 10500-2018 Standards,

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

Analysed by

*CA*

Authorized Signatory

*B. Chinnna Lingana Gouda*

B.Chinnna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



- Note: 1. The results listed only to the tested samples & applicable parameters,  
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5. 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 45001:2018, ISO 9001:2015, ISO 22000:2018)

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, (0) : 08392-255169,

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



TC- 4071

MSVAL/W/RF/01/00

## ANALYSIS REPORT OF WATER QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Marked as : River Water
3. Name of the location : Krishna River
4. Sample Collected By : MSV Analytical Laboratories
5. Sample quantity : Pet Bottle, 2 Liter.
6. Sample Description/condition : Good/satisfactory
7. Date of Sample Collection : 12.02.2025
8. Date of sample receipt : 13.02.2025
9. Sample Code : 4878
10. Analysis Starting Date : 13.02.2025
11. Analysis Completion Date : 17.02.2025
12. Report Issue Date : 17.02.2025

Discipline: Chemical

Group: Water

Sub Group: Surface Water

ULR NO: TC407125000003325F

Discipline: Chemical		Group: Water		Sub Group: Surface Water		IS 10500-2018	
S.No	Parameters	Protocol	Unit	Result	Acceptable limit	Permissible limit	
Physical Parameters							
1	Color	IS 3025 (Part-4)	Hazen	<1.0	Max 5	Max 15	
2	pH @ 25°C	IS 3025 (Part 11)	---	7.38	6.5-8.5	No Relaxation	
3	Total dissolved solids	IS 3025 (Part 16)	mg/L	430.0	Max 500	Max 2000	
4	Turbidity	IS 3025 (Part 10)	NTU	0.87	Max 1	Max 5	
Chemical Parameters							
5	Total Alkalinity as CaCO <sub>3</sub>	IS 3025: (Part 23)	mg/L	193.1	Max 200	Max 600	
6	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21)	mg/L	296.5	Max 200	Max 600	
7	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34)	mg/L	2.13	Max 45	No relaxation	
8	Chloride (as Cl)	IS 3025 (Part 32)	mg/L	96.27	Max 250	Max 1000	
9	Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24)	mg/L	41.51	Max 200	Max 400	
10	Calcium (as Ca)	IS 3025 (Part 40)	mg/L	75.22	Max 75	Max 200	
11	Magnesium (as Mg)	IS 3025 (Part 46)	mg/L	26.35	Max 30	Max 100	
12	Fluoride (as F)	IS 3025 (Part 60)	mg/L	0.52	Max 1.0	Max 1.5	
13	Iron (as Fe)	3120 B APHA 23 <sup>rd</sup> Edition	mg/L	<0.01	Max 0.3	No relaxation	

### INFERENCE

As per IS 10500-2018 Standards,

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

Analysed by

Authorized Signatory

B.Channa Lingana Gouda

Chief executive of the laboratory

\*\*\* End of Report \*\*\*



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



TC- 4071

MSVAL/S&R/RF/01/00

## ANALYSIS REPORT OF SOIL QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Marked as : Soil Sample
3. Name of the location : MohamadShab Navaldar, Sy no - 76 B,  
Hirepadasalagi
4. Sample Collected By : MSV Analytical Laboratories
5. Sample quantity : 1 Kg Bag
6. Sample Description/condition : Good/satisfactory
7. Date of Sample Collection : 12.02.2025
8. Date of sample receipt : 13.02.2025
9. Sample Code : 4879
10. Analysis Starting Date : 13.02.2025
11. Analysis Completion Date : 17.02.2025
12. Report Issue Date : 17.02.2025

Discipline: Chemical Group: Soil & Rock Sub Group: Soils ULR NO: TC407125000003326F

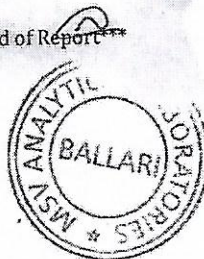
S.NO	PARAMETERS	UNIT	PROTOCOL	RESULT
1	pH	-	IS 2720(Part 26)	7.16
2	Electrical Conductivity	µs/cm	IS 14767: 2021	254.0
3	Total Organic Carbon	%	IS 2720:2020	0.38
4	Available Nitrogen	Kg/ha	IS 14684:2019	236.1
5	Available Phosphorous	Kg/ha	Lab SOP: MSVAL/SOP/S-06	31.6
6	Potassium as K <sub>2</sub> O	Kg/ha	IS 9497:2020	166.3

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



Note: 1. The results listed only to the tested samples & applicable parameters,  
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TC- 4071

MSVAL/S&R/RF/01/00

## ANALYSIS REPORT OF SOIL QUALITY

1. Name and Address of Industry : M/s. Jamakhandi Sugars Ltd.,  
At: Hirepadasalagi, Post: Naganur - 587301,  
Tq: Jamkhandi, Dist: Bagalkot
2. Sample Marked as : Press Mud
3. Name of the location : -
4. Sample Collected By : Customer
5. Sample quantity : 1 Kg Bag
6. Sample Description/condition : Good/satisfactory
7. Date of Sample Collection : 12.02.2025
8. Date of sample receipt : 13.02.2025
9. Sample Code : 4925
10. Analysis Starting Date : 13.02.2025
11. Analysis Completion Date : 17.02.2025
12. Report Issue Date : 17.02.2025

Discipline: Chemical

Group: Soil & Rock

Sub Group: Soils

ULR NO: TC407125000003354F

S.NO	PARAMETERS	UNIT	PROTOCOL	RESULT
1	pH	-	IS 2720(Part 26)	6.82
2	Electrical Conductivity	µs/cm	IS 14767: 2021	41.0
3	Total Organic Carbon	%	IS 2720:2020	1.96
4	Available Nitrogen	%	IS 14684:2019	1.71
5	Available Phosphorous	%	Lab SOP: MSVAL/SOP/S-06	2.89
6	Potassium as K <sub>2</sub> O	%	IS 9497:2020	0.65

Analysed by

*[Signature]*

Authorized Signatory

*[Signature]*

B.Chinna Lingana Gouda  
Chief executive of the laboratory

\*\*\* End of Report \*\*\*



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