



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.
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NABET / EIA / 1619 / RA 0057 valid upto June 12, 2019,
NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2019

TEST REPORT STACK EMISSIONS

Report Ref. No.	SEC/Stack/Sugar-VV/02-21
Report Date	02 March 2021
Name of industry	Vishwaraj Sugar Industries Ltd.
Address	Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.
Start Date of commencement of Sampling	16 February 2021
Start Time of commencement of Sampling	10:00 am
End Date of commencement of Sampling	16 February 2021
End Time of commencement of Sampling	10:30 am
Retention period of the remnant sample	30 days

PARTICULARS OF STACK

Stack attached to boiler	70 & 80 TPH
Stack Diameter	Outside – 4.23m & Inner – 3.63m.
Stack Height	73.00 m
Stack Temperature	124°C
Stack Velocity of Flue Gases	9.4 m/s
Type of Fuel	Bagasse

POLLUTION PARAMETER RESULTS

Parameter	Results	Limits	Units	Method Used
Particulate Matter (PM)	97	150	mg/Nm ³	IS 11255m(Part 1):1985, Reaffirmed 2003
SO ₂	30	80	mg/Nm ³	IS-11255 (Part 2): 1985 Reaffirmed 2009
NO _x	46	80	mg/Nm ³	IS-11255 (Part 7): 2005 Reaffirmed 2012

Note: The test report shall not be reproduced except in full without written approval of the laboratory.

Analyzed By



Authorized Signatory
Technical Manager/ Quality Manager



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TEST REPORT STACK EMISSIONS

Report Ref. No.	SEC/Stack/Distillery-VV/02-21
Report Date	02 March 2021
Name of industry	Vishwaraj Sugar Industries Ltd.
Address	Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.
Start Date of commencement of Sampling	16 February 2021
Start Time of commencement of Sampling	11:30 am
End Date of commencement of Sampling	16 February 2021
End Time of commencement of Sampling	12:00 pm
Retention period of the remnant sample	30 days
<u>PARTICULARS OF STACK</u>	
Stack attached to boiler	10 & 12 TPH
Stack Diameter	0.90 m.
Stack Height	43.00 m
Stack Temperature	138°C
Stack Velocity of Flue Gases	8.4 m/s
Type of Fuel	Coal/Biogas

POLLUTION PARAMETER RESULTS

Parameter	Results	Limits	Units	Method Used
Particulate Matter (PM)	52	150	mg/Nm ³	IS 11255m(Part 1):1985, Reaffirmed 2003
SO ₂	22	80	mg/Nm ³	IS-11255 (Part 2): 1985 Reaffirmed 2009
NOx	37	80	mg/Nm ³	IS-11255 (Part 7): 2005 Reaffirmed 2012

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AMBIENT AIR QUALITY REPORT

Report Ref. No. : SEC/AA-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV-AA
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Ambient Air
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab

Sr. No.	Sampling Station	Limits	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)
			< 100µg/m ³	< 60µg/m ³	< 80µg/m ³	< 80µg/m ³
	Method of Testing		IS 5182 (Part 23): 2006	SEC/QAL/SOP/ AIR/PM2.5/03	IS 5182 (Part 2): 2001	IS 5182 (Part 6): 2006
1.	Near Factory Main Gate		72	28	08.00	10.00
2.	Near Distillery Gate		75	32	10.00	12.00

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TEST REPORT

Report Ref. No. : SEC/W-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV1
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Digester Inlet	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	2.71	IS:3025 (P-11) 1983
2	C.O.D	mg/l	1,42,276	IS:3025 (P-58) 2006
3	B.O.D	mg/l	58,510	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,61,870	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	91,430	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	70,440	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	10,661	IS:3025 (P-32) 1988
8	Sulphates	mg/l	11,971	IS:3025 (P-24) 1986
9	Potassium	mg/l	16,600	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By

Note:

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2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



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Technical Manager/ Quality Manager

***END of Test Report ***



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TEST REPORT

Report Ref. No. : SEC/W-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV2
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Digester Outlet	

Sr. No.	Test Parameter	Unit	Result	Standards	Test Method
1	pH	-	7.52	---	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	7350	>6000	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	3490	< 3000	APHA 22 nd Edition-2012, 5560 C
4	C.O.D	mg/l	36,670	35000-50000	IS:3025 (P-58) 2006
5	B.O.D	mg/l	5310	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	mg/l	65,170	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	37,120	35000-45000	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	28,050	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	6108	6000 – 8000	IS:3025 (P-32) 1988
10	Sulphates	mg/l	4539	4000 – 6000	IS:3025 (P-24) 1986
11	K	mg/l	12,500	---	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By

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3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



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TEST REPORT

Report Ref. No. : SEC/W-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV3
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Lagoon No. – 01	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	3.53	IS:3025 (P-11) 1983
2	C.O.D	mg/l	37,805	IS:3025 (P-58) 2006
3	B.O.D	mg/l	17,940	IS:3025 (P-44) 1993
4	Total Solids	mg/l	53,670	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	29,380	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	24,290	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	4886	IS:3025 (P-32) 1988
8	Sulphates	mg/l	3721	IS:3025 (P-24) 1986
9	Potassium	mg/l	9200	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By

Note:

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3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



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***END of Test Report ***



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TEST REPORT

Report Ref. No. : SEC/W-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV4
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Lagoon No. - 02	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	2.82	IS:3025 (P-11) 1983
2	C.O.D	mg/l	1,46,341	IS:3025 (P-58) 2006
3	B.O.D	mg/l	61,310	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,82,160	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	97,650	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	84,510	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	8329	IS:3025 (P-32) 1988
8	Sulphates	mg/l	7166	IS:3025 (P-24) 1986
9	Potassium	mg/l	13,800	IS:3025 (P-45) 1993

Remarks:

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3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



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TEST REPORT

Report Ref. No. : SEC/W-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV5
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Distillery CPU Inlet	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	7.21	IS:3025 (P-11) 1983
2	C.O.D	mg/l	9350	IS:3025 (P-58) 2006
3	B.O.D	mg/l	3810	IS:3025 (P-44) 1993
4	Total Solids	mg/l	24,670	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	13,980	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	10,670	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	5108	IS:3025 (P-32) 1988
8	Sulphates	mg/l	8706	IS:3025 (P-24) 1986
9	Potassium	mg/l	9100	IS:3025 (P-45) 1993

Remarks:

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3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



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TEST REPORT

Report Ref. No. : SEC/W-VV/02-21	End of Analysis : 27 February 2021
Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV6
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Distillery CPU Outlet	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	6.98	IS:3025 (P-11) 1983
2	C.O.D	mg/l	8943	IS:3025 (P-58) 2006
3	B.O.D	mg/l	3690	IS:3025 (P-44) 1993
4	Total Solids	mg/l	21,570	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	12,130	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	9440	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	5774	IS:3025 (P-32) 1988
8	Sulphates	mg/l	6358	IS:3025 (P-24) 1986
9	Potassium	mg/l	8700	IS:3025 (P-45) 1993

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3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



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Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi - 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV7
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Inlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	5.56	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	2148	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	890	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2530	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	410	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	220	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	191	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	10	mg/l	IS:3025 (P-39) 1991 (RA 2003)

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4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



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Name of Industry/Customer: Vishwaraj Sugar Industries Ltd.	Report Date : 02 March 2021
Address: A/p. Bellad-Bagewadi – 591305, (Tq)- Hukkeri, (Dst)- Belgaum.	Lab ID/Sample Ref. No. : VV8
Date of Collection / Sampling : 16 February 2021	Nature of Sample: Water
Date of Receipt : 16 February 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 February 2021	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Outlet	

Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.85	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	124	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	47	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	490	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	52	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	90	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	164	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

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4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



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Technical Manager/ Quality Manager

***END of Test Report ***