



SHIVA TEST HOUSE

Tel. : 0612 – 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in



ISO 18001:2007
OHSAS Certified

RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986,
BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL

TEST REPORT

Ref. No. *JSM/TR/12-13/441(a)* Dt : **18.01.2013** Your Work Order No. *VERBAL* Dt : **02.01.2013**

[a]	Name and address of the Client	M/s JAY SHREE SUGAR MILL P.O.: Majhaulia W.Champaran – 845 454	
[b]	Report to be submitted to	<i>Executive Director</i>	
[c]	Details of Sample	<i>Untreated Effluent Sample</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on 28.12.11	
[e]	No. & Type of Container	Plastic Bottle	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	28.12.11	
Sl. No.	Parameters	Method of Test	Result(in mg/l.) except pH, Colour
1.	Colour	IS 3025 (Part-4)	Passes Test
2.	pH	IS 3025 (Part-11)	6.46
3.	Suspended Solids	IS 3025(Part-17)	274.0
4.	Total Dissolved Solids	IS 3025 (Part-16)	1640.0
5.	Oil & Grease	IS 3025 (Part-39)	1.8
6.	B.O.D.(3 days at 27 ⁰ C)	IS 3025 (Part-44)	260.0
7.	C.O.D.	APHA 5220 B	756.0
8.	Sulphate as SO ₄	IS 3025 (Part-24)	132.0
9.	Chloride as Cl	IS 3025 (Part-32)	230.0
10.	Dissolved Phosphate as P	IS 3025 (Part-31)	3.2
11.	Ammonical Nitrogen as N	IS 3025 (Part-34)	22.0
12.	Total Kjeldahl Nitrogen as N	IS 3025 (Part-34)	45.0



Dy. Quality Manager

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TEST REPORT

Ref. No. <i>JSM/TR/12-13/441(b)</i> Dt : 18.01.2013 Your Work Order No. <i>VERBAL</i> Dt : 02.01.2013				
[a]	Name and address of the Client		M/s JAY SHREE SUGAR MILL P.O.: Majhulia W.Champaran – 845 454	
[b]	Report to be submitted to		<i>Executive Director</i>	
[c]	Details of Sample		<i>Filter Tank backwash Treated Effluent Sample</i>	
[d]	Sample Collected by		SHIVA TEST HOUSE on 28.12.11	
[e]	No. & Type of Container		Plastic Bottle	
[f]	Items required to be tested		As per request	
[g]	Whether any specific Method of Test has been suggested by the party		No	
[h]	Date of receiving the sample		28.12.11	
S. N.	Parameters	Method of Test	Limit (mg/l.) as per Board's Standard	Result(in mg/l.) except pH, Colour
1	Colour	IS 3025 (Part-4)	Not Specified	Passes Test
2	pH	IS 3025 (Part-11)	5.5 to 9.0	6.98
3	Suspended Solids	IS 3025(Part-17)	200.00	52.0
4	Total Dissolved Solids	IS 3025 (Part-16)	2100.00	630.0
5	Oil & Grease	IS 3025 (Part-39)	10.00	< 1.0
6	B.O.D.(3 days at 27 ⁰ C)	IS 3025 (Part-44)	100.00	26.0
7	C.O.D.	APHA 5220 B	Not Specified	130.0
8	Sulphate as SO ₄	IS 3025 (Part-24)	1000.00	54.0
9	Chloride as Cl	IS 3025 (Part-32)	1000.00	120.0
10	Dissolved Phosphate as P	IS 3025 (Part-31)	5.00	1.0
11	Ammonical Nitrogen as N	IS 3025 (Part-34)	50.00	15.0
12	Total Kjeldahl Nitrogen as N	IS 3025 (Part-34)	100.00	32.0



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TEST REPORT

Ref. No. <i>JSM/TR/12-13/441(c)</i> Dt : 18.01.2013 Your Work Order No. <i>VERBAL</i> Dt : 02.01.2013			
[a]	Name and address of the Client	M/s JAY SHREE SUGAR MILL P.O.: Majhulia W.Champaran – 845 454	
[b]	Report to be submitted to	<i>Executive Director</i>	
[c]	Details of Sample	<i>Monitoring of Stack Emission</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on 28.12.11	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	28.12.11	
	Parameters	Method of Test	Results
1.	Type of Fuel		Bagasse
2.	Stack Connected to		Boiler No. 9 having Steam generation capacity 32.0 T / hr.
3.	Stack No.		I
4.	Height of Stack above ground level (as reported)		30.00 M.
5.	Dia of Stack at Top (as reported)		1.55 M.
6.	Material of Construction		M.S.
7.	Ambient Temperature, °C		15.0
8.	Flue Gas Temperature, °C		120.0
9.	Velocity, m/sec.	IS 11255 (Part-3)	8.4
10.	Sampling Point		10.00 M.
			Concentration (mg / NM³)
			Limit as per EPA Notification
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	132.0 500.00 mg / NM ³ (12% CO ₂)
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	12.6 Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	22.0 Not Specified



[Signature]

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TEST REPORT

Ref. No. <i>JSM/TR/12-13/441(d)</i> Dt : 18.01.2013 Your Work Order No. <i>VERBAL</i> Dt : 02.01.2013			
[a]	Name and address of the Client	M/s JAY SHREE SUGAR MILL P.O.: Majhulia W.Champaran – 845 454	
[b]	Report to be submitted to	<i>Executive Director</i>	
[c]	Details of Sample	<i>Monitoring of Stack Emission</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on 28.12.11	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	28.12.11	
	Parameters	Method of Test	Results
1.	Type of Fuel		Bagasse
2.	Stack Connected to		Horse Shoe Type Boiler No. 10 having Steam generation capacity 40.0 T / hr.
3.	Stack No.		II
4.	Height of Stack above ground level (as reported)		40.00 M.
5.	Dia of Stack at Top (as reported)		2.55 M.
6.	Material of Construction		M.S.
7.	Ambient Temperature, °C		15.0
8.	Flue Gas Temperature, °C		124.0
9.	Velocity, m/sec.	IS 11255 (Part-3)	9.2
10.	Sampling Point		16.00 M.
			Concentration (mg / NM³)
			Limit as per EPA Notification
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	124.6 500.00 mg / NM ³ (12% CO ₂)
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	11.2 Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	20.8 Not Specified



[Signature]

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TEST REPORT

Ref. No. <i>JSM/TR/12-13/441(e)</i> Dt : 18.01.2013 Your Work Order No. <i>VERBAL</i> Dt : 02.01.2013			
[a]	Name and address of the Client	M/s JAY SHREE SUGAR MILL P.O.: Majhulia W.Champaran – 845 454	
[b]	Report to be submitted to	<i>Executive Director</i>	
[c]	Details of Sample	<i>Monitoring of Stack Emission</i>	
[d]	Sample Collected by	SHIVA TEST HOUSE on 28.12.11	
[e]	No. & Type of Container	<i>Thimble & Glass Impinger</i>	
[f]	Items required to be tested	As per request	
[g]	Whether any specific Method of Test has been suggested by the party	No	
[h]	Date of receiving the sample	28.12.11	
	Parameters	Method of Test	Results
1.	Type of Fuel		Bagasse
2.	Stack Connected to		Spreader Stroker Type Boiler No. 11 having Steam generation capacity 40.0 T / hr.
3.	Stack No.		III
4.	Height of Stack above ground level (as reported)		40.00 M.
5.	Dia of Stack at Top (as reported)		2.50 M.
6.	Material of Construction		R.C.C.
7.	Ambient Temperature, °C		15.0
8.	Flue Gas Temperature, °C		117.0
9.	Velocity, m/sec.	IS 11255 (Part-3)	10.2
10.	Sampling Point		16.00 M.
			Concentration (mg / NM³)
			Limit as per EPA Notification
11.	Particulate Matter (P.M.)	IS 11255 (Part-1)	118.0 500.00 mg / NM ³ (12% CO ₂)
12.	Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	14.2 Not Specified
13.	Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	18.6 Not Specified



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Ref. No. <i>JSM/TR/12-13/441(f)</i> Dt : 18.01.2013 Your Work Order No. <i>VERBAL</i> Dt : 02.01.2013					
a. Name and Address of the Client			M/s JAY SHREE SUGAR MILL P.O.: Majhaulia W.Champaran – 845 454		
b. Report to be submitted to			<i>Executive Director</i>		
c. Details of Sample			<i>Monitoring of Ambient Air Quality</i>		
d. Sample collected by			<i>Shiva Test House on 27/28.12.11</i>		
e. No. & Type of Container			<i>Filter Paper & Glass Impinger</i>		
f. Items required to be tested			<i>As per request</i>		
g. Whether any specific Method of Test has been suggested by the Party			NO		
h. Date of Receiving the sample			28.12.11		
Parameters	Method of Test	Sampling Station			
		Near Store	Near Cooling Tower	Near Guest House	Limit as per National Ambient Air Quality Standards (NAAQS), Nov.'2009
Concentration in $\mu\text{g} / \text{M}^3$					
Respirable Suspended Particulate Matter (PM ₁₀)	IS 5182 (Part-23)	84.2	67.4	62.2	100.00
		69.3	60.9	53.0	
		60.7	52.3	41.5	
Sulphur Dioxide as SO ₂	IS 5182 (Part-2)	17.6	15.2	13.7	80.00
		16.1	14.6	12.1	
		14.0	13.1	11.1	
		12.7	13.2	10.6	
		11.9	10.6	9.0	
Nitrogen Dioxide as NO ₂	IS 5182 (Part-6)	10.4	10.2	7.8	80.00
		25.0	21.0	19.5	
		22.8	20.1	17.2	
		20.0	18.0	15.8	
		18.0	18.4	15.3	
Average Value		17.0	14.7	13.4	
		14.8	14.2	11.1	
		71.4	60.2	52.2	
PM ₁₀		13.8	12.8	10.7	
SO ₂		19.6	17.7	15.4	
NO ₂					



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