



Royal

Environment Auditing & Consultancy Service

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Ref. No. : 71/03/2011-12

Date : 19/03/2012

STACK EMISSION MONITORING RESULTS

Sinter Plant-I

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 4	Stack No. 5	Stack No. 6
01	Date of Sampling	---	Not Running	Not Running	Not Running	Not Running	Not Running	Not Running
02	Time of sampling	Hr.	During Visit	During Visit	During Visit	During Visit	During Visit	During Visit
03	Stack Attached to	---	Sinter Main	Tail End Stack	Fuel	Flux	SMD	PMD
04	Air Pollution Control Measures	---	ESP	ESP	Bag Filter	Bag Filter	---	---
05	Stack Height	Meter	50	32.8	30	30	26.80	19.75
06	Stack Diameter	Meter	2.0	1.30	1.40	0.70	1.25	1.25
07	Stack Temperature	°C	---	---	---	---	---	---
08	Ambient Temperature	°C	---	---	---	---	---	---
09	Average Velocity of Flue Gases	M/Sec.	---	---	---	---	---	---
10	Isokinetic flow rate for P.M. Sampling	LPM	---	---	---	---	---	---
11	Gaseous Sampling Flow Rate	LPM	---	---	---	---	---	---
12	Permissible limits for PM	mg/Nm ³	150	150	150	150	150	150
13	Measured Concentration of PM.	mg/Nm ³	---	---	---	---	---	---
14	Permissible limits for SO ₂	ppm	100	100	100	100	100	100
15	Measured Concentration of SO ₂	ppm	---	---	---	---	---	---
16	Permissible limits for Nox	ppm	50	50	50	50	50	50
17	Measured Concentration of Nox	ppm	---	---	---	---	---	---

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : Stack Monitoring Kit - Vayubodhan make - VSS I
Recalibration is Due on : 06/05/2012

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Ref. No. : 72/03/2011-12

Date : 19/03/2012

STACK EMISSION MONITORING RESULTS

Sinter Plant- II

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 4	Stack No. 5
01	Date of Sampling	---	09-03-2012	09-03-2012	06-03-2012	06-03-2012	09-03-2012
02	Time of sampling	Hr.	16.30	17.30	12.30	14.00	15.15
03	Stack Attached to	---	Sinter Main	Tail End Stack	Flux	SMD	Fuel Screening deduster System (Screening Flux)
04	Air Pollution Control Measures	---	ESP	ESP	Bag Filter	---	Dust Collector
05	Stack Height	Meter	50	32.8	30	26.8	30
06	Stack Diameter	Meter	2	1.3	0.7	1.25	---
07	Stack Temperature	°C	145	115	36	55	36
08	Ambient Temperature	°C	32	32	34	34	33
09	Average Velocity of Flue Gases	M/Sec.	7.6	5.4	6.9	5.7	4.9
10	Isokinetic flow rate for P.M. Sampling	LPM	23	18	28	22	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150	150	150	150
13	Measured Concentration of PM.	mg/Nm ³	136	63	52	29	28
14	Permissible limits for SO ₂	ppm	100	NA	NA	NA	NA
15	Measured Concentration of SO ₂	ppm	22	NA	NA	NA	NA
16	Permissible limits for Nox	ppm	50	NA	NA	NA	NA
17	Measured Concentration of Nox	ppm	38	NA	NA	NA	NA

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : Stack Monitoring Kit - Vayubodhan make - VSS I
Recalibration is Due on : 06/05/2012

NA= Not Applicable

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Ref. No. : 73/03/2011-12

Date : 19/03/2012

STACK EMISSION MONITORING RESULTS

BF Complex

Name of company : Jindal Saw Limited,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 4	PCI Unit
01	Date of Sampling	---	07-03-2012	07-03-2012	07-03-2012	10-03-2012	---
02	Time of sampling	Hr.	9.00	10.30	11.45	13.30	---
03	Stack Attached to	---	Boiler - I	Boiler - II	Dedusting System	Stove Stack	Coal Pulverization
04	Air Pollution Control Measures	---	---	---	Bag Filter	-----	Bag Filter
05	Stack Height	Meter	45	45	33.4		32.00
06	Stack Diameter	Meter	1.380	1.380	1.484	2.250	---
07	Stack Temperature	°C	206	215	46	380.	---
08	Ambient Temperature	°C	30	30	32	33	---
09	Average Velocity of Flue Gases	M/Sec.	9.2	8.6	7.3	10.90	---
10	Isokinetic flow rate for P.M. Sampling	LPM	24	22	29	21	---
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0	---
12	Permissible limits for PM	mg/Nm ³	150	150	150	150	150
13	Measured Concentration of PM.	mg/Nm ³	NIL	NIL	78	20	
14	Permissible limits for SO ₂	mg/Nm ³	40	40	40	100	100
15	Measured Concentration of SO ₂	mg/Nm ³	3.9	2.9	N.D.	N.D.	---
16	Permissible limits for Nox	mg/Nm ³	25	25	25	50	50
17	Measured Concentration of Nox	mg/Nm ³	5.8	6.7	4.9	4	---

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.

Instrument Used : Stack Monitoring Kit - Vayubodhan make - VSS I

Recalibration is Due on : 06/05/2012

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Ref. No. : 74/03/2011-12

Date : 19/03/2012

STACK EMISSION MONITORING RESULTS Pipe Complex

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 4	Stack No. 5
01	Date of Sampling	---	06-03-2012	07-03-2012	07-03-2012	08-03-2012	08-03-2012
02	Time of sampling	Hr.	9.20	10.35	11.10	14.40	15.45
03	Stack Attached to	---	Mg Converter-I	Zn Coating - I	Zn Coating - II	Anneling Furnace - I	Anneling Furnace - II
04	Air Pollution Control Measures	---	Bag Filter	Cyclone Seprater & Bag Filter	Cyclone Seprater & Bag Filter	---	---
05	Stack Height	Meter	30	30	30	32	32
06	Stack Diameter	Meter	0.488	0.584	0.584	1.375	1.375
07	Stack Temperature	°C	49	46	53	181	122
08	Ambient Temperature	°C	29	29	30	32	32
09	Average Velocity of Flue Gases	M/Sec.	15.3	13.40	12.60	9.8	8.6
10	Isokinetic flow rate for P.M. Sampling	LPM	26	23	22	27	28
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0	2.0
h	Permissible limits for PM	mg/Nm3	150	20 (Zn)	20 (Zn)	150	150
13	Measured Concentration of PM	mg/Nm3	56	16 (Zn)	14 (Zn)	46	56
14	Permissible limits for SO2	mg/Nm3	40	40	40	100	100
15	Measured Concentration of SO2	mg/Nm3	N.D.	N.D.	N.D.	2.9	2.5
16	Permissible limits for Nox	mg/Nm3	25	25	25	25	25
17	Measured Concentration of Nox	mg/Nm3	1.8	1.9	1.0	2.5	2.9

Note : Minimum Detectable Limit of SO2 & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : Stack Monitoring Kit - Vayubodhan make - VSS I
Recalibration is Due on : 06/05/2012

N.D= Not Detectable

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Ref. No. : 75/03/2011-12

Date : 19/03/2012

STACK EMISSION MONITORING RESULTS Pipe Complex

Name of company : Jindal Saw Limited,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 4	Stack No. 5
01	Date of Sampling	---	10-03-2012	NOT IN	09-03-2012	09-03-2012	09-03-2012
02	Time of sampling	Hr.	11.00	OPERATION	17.00	13.00	14.30
03	Stack Attached to	---	Core Shop-II	Bitumin Drying Oven - I	Bitumin Drying Oven - II	Barrel Grinding - I	Barrel Grinding - II
04	Air Pollution Control Measures	---	---	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	30	32.8	32.8	16.5	30
06	Stack Diameter	Meter	0.584	1.375	1.375	0.584	0.584
07	Stack Temperature	°C	56	---	170	52	55
08	Ambient Temperature	°C	30	---	29	32	32
09	Average Velocity of Flue Gases	M/Sec.	16.00	---	8.6	15.4	17.7
10	Isokinetic flow rate for P.M. Sampling	LPM	11	---	25	11	12
11	Gaseous Sampling Flow Rate	LPM	2.0	---	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150	150	150	150
13	Measured Concentration of PM.	mg/Nm ³	37	---	138	71	59
14	Permissible limits for SO ₂	mg/Nm ³	40	100	100	100	40
15	Measured Concentration of SO ₂	mg/Nm ³	1	---	3.9	3	3.1
16	Permissible limits for Nox	mg/Nm ³	25	50	50	50	25
17	Measured Concentration of Nox	mg/Nm ³	2.9	---	3	1.6	2.0

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : Stack Monitoring Kit - Vayubodhan make - VSS I
Recalibration is Due on : 06/05/2012

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Ref. No. : 76/03/2011-12

Date : 19/03/2012

STACK EMISSION MONITORING RESULTS

Pipe Complex

Name of company : Jindal Saw Limited,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3	Stack No. 4
01	Date of Sampling	---	08-03-2012	06-03-2012	08-03-2012	06-03-2012
02	Time of sampling	Hr.	12.00	10.15	---	9.15
03	Stack Attached to	---	Core Cleaning & Dusting	Core Shop-I	Shot Blasing (Coating Plant)	Sand Reclamation
04	Air Pollution Control Measures	---	Bag Filter	---	Cyclone Seprater & Bag Filter	Bag Filter
05	Stack Height	Meter	30	30	30	32
06	Stack Diameter	Meter	0.588	0.584	0.588	---
07	Stack Temperature	°C	38	34	55	60
08	Ambient Temperature	°C	32	30	33	29
09	Average Velocity of Flue Gases	M/Sec.	8.6	13.1	13.76	12.5
10	Isokinetic flow rate for P.M. Sampling	LPM	16	24	24	21
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150	150	150
13	Measured Concentration of PM	mg/Nm ³	46	43	98	40
14	Permissible limits for SO ₂	mg/Nm ³	40	40	100	40
15	Measured Concentration of SO ₂	mg/Nm ³	N.D.	N.D.	3.1	NIL
16	Permissible limits for Nox	mg/Nm ³	25	25	50	25
17	Measured Concentration of Nox	mg/Nm ³	N.D.	2.0	0.92	NIL

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.

N.D= Not Detectable

Instrument Used : Stack Monitoring Kit - Vayubodhan make - VSS I

Recalibration is Due on : 06/05/2012

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Ref. No. : 80/03/2011-12

Date : 19/03/2012

WORK ZONE NOISE LEVEL MEASUREMENT

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Date of Sampling : 5th to 10th March 2012

Sr. No.	Location of Sampling	Results Avg. in dB(A)
01.	Inside Control Room of Sinter Plant	65.0
02.	Nr. Stock House of BF	71.3
03.	Inside Control Room of BF	66.0
04.	Inside Control Room of Blower House	69.2
05.	Inside Control of Cast House	66.4
06.	Inside Control Room of CPP	68.2
07.	Inside Control Room of Annealing Furnace of DISP	67.1
08.	Inside Laboratory of BF	69.3
09.	Inside Laboratory of DISP	70.2
10.	Inside ID & OD Control Room of JCO Plant	71.4
11.	Inside Control Room – Mill area of Spiral Plant	72.3
12.	Inside Spiral – 1	65.8
13.	Nr. Pipe cutting Area of Spiral Plant	72.1
14.	Inside JCO Plant	73.0
15.	Nr. JCO Press	76.0
16.	Inside DISP Plant	75.2
17.	Inside Coating Plant	69.4

Instruments used : Sound level meter, Model : SL - 4001 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Recalibration is Due On : 04/04/2012

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Ref. No. : 81/03/2011-12

Date : 19/03/2012

AMBIENT NOISE LEVEL MEASUREMENT

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Date of Sampling: 10th March 2012

Sr. No.	Location of Sampling	Results in dB(A) (Day Time)	Results in dB(A) (Night Time)
	Permissible Limits	75.0	70.0
01.	Nr. Admin. Building	67.0	64
02.	Nr. Old Colony	66.8	64.3
03.	Nr. LPG Yard	65.4	64.9
04.	Nr. Sinter Plant	70.2	66.1
05.	Nr. R. O. Plant	69.7	67.8
06.	Nr. Gate No. 2	64.4	62.9
07.	Nr. New Colony	71.5	65.7

Instruments used : Sound level meter, Model : SL - 4001 (Lutron Make)

Range : A - 30 to 80 dB, B-50 to 100 dB, C-80 to 130 dB.

Recalibration is Due On : 04/04/2012

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Ref. No. : 83/03/2011-12

Date : 19/03/2012

REPORT OF EFFLUENT ANALYSIS

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Source Of Sample Collection : Domestic Effluent After Treatment

Date of Sample Collection : 10th March 2012

Sr. No.	Parameters	Unit	GPCB limits	STP Inlet	STP Outlet
01.	pH	pH Unit	-----	6.35	7.50
02.	BOD (3 Days at 27°C)	Mg/L	20	170	17
03.	Suspended Solids	Mg/L	30	109	16
04.	Residual Chlorine	Mg/L	Min. 0.5	----	0.55

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Ref. No. : 77/03/2011-12

Date : 19/03/2012

STACK EMISSION MONITORING RESULTS Pipe Complex- SDP

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_1/2/3/7

Sr. No.	Particulars	Unit	Stack No. 1	Stack No. 2	Stack No. 3
01	Date of Sampling	---	10-03-2012	10-03-2012	10-03-2012
02	Time of sampling	Hr.	14.00	15.00	16.30
03	Stack Attached to	---	Mg Converter -II	Zn Coating - III	Zn Coating - IV & V
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	30	---	---
06	Stack Diameter	Meter	0.488	---	---
07	Stack Temperature	°C	44	45	52
08	Ambient Temperature	°C	32	32	31
09	Average Velocity of Flue Gases	M/Sec.	15.1	10.4	12.40
10	Isokinetic flow rate for P.M. Sampling	LPM	27	18	21
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	20 (Zn)	20 (Zn)
13	Measured Concentration of PM.	mg/Nm ³	32	13 (Zn)	16 (Zn)
14	Permissible limits for SO ₂	ppm	40	40	40
15	Measured Concentration of SO ₂	ppm	N.D.	N.D.	N.D.
16	Permissible limits for Nox	ppm	25	25	25
17	Measured Concentration of Nox	ppm	1.6	2.0	1.3

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : Stack Monitoring Kit - Vayubodhan make - VSS I
Recalibration is Due on : 06/05/2012

N.D.= Not Detectable

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Ref. No. : 78/03/2011-12

Date : 19/03/2012

AMBIENT AIR QUALITY MONITORING REPORT

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 5182_2/4/6

Sr. No.	Particulars	Unit	AAQM - 1	AAQM - 2	AAQM - 3	AAQM - 4
01.	Location of Ambient	----	Nr. New Colony	Nr. Old Colony	Nr. Sinter Plant	Nr. Temple
02.	Date of sampling	----	06/03/2012	06/03/2012	07/03/2012	07/03/2012
03.	Time of sampling	Hr.	8.00	8.30	8.15	8.45
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	----	NW	NW	NW	NW
06.	Average Wind Speed	Km/Hr.	3 to 12	3 to 12	3 to 15	3 to 15
07.	Average flow rate during sampling	m ³ /Hr.	1.0	1.0	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	2.0	2.0	2.0	2.0
09.	Permissible limits for PM 10	µg/m ³	100	100	100	100
10.	Measured Concentration of PM 10	µg/m ³	49	45	44	40
11.	Permissible limits for PM 2.5	µg/m ³	60	60	60	60
12.	Measured Concentration of PM 2.5	µg/m ³	30	29	27	29
13.	Permissible limits for SO _x	µg/m ³	80	80	80	80
14.	Measured Concentration of SO _x	µg/m ³	12.3	10.6	12.9	13.6
15.	Permissible limits for Nox	µg/m ³	80	80	80	80
16.	Measured Concentration of NO _x	µg/m ³	20.0	21.0	23.2	21.5
17.	Permissible limits for CO	µg/m ³	2000	2000	2000	2000
18.	Measured Concentration of CO	µg/m ³	N.D.	N.D.	N.D.	N.D.

Instrument used : Envirotech make (RDS), Model No. APM - 460 BL, Gaseous Sampling Kit,
Calibration due on 1.) 10/12/2012, 10/12/2012 & 17/09/2012

N.D.= Not Detectable

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Ref. No. : 84/03/2011-12

Date : 19/03/2012

Bag Filter Efficiency Report

Name of company : Jindal Saw Limited,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Date of Sampling: 5th to 10th March-2012

Sr. No.	Particulars	Unit	Stack Attached to				
			Mg Converter-I	Zn Coating - I	Barrel Grinding - I	Barrel Grinding - II	Zn Coating - II
1	Stack Height	Meter	30	30	16.5	30	30
2	Stack Diameter	Meter	0.488	0.584	0.584	0.584	0.584
3	Stack Temperature	°C	49	46	52	55	53
4	Ambient Temperature	°C	29	29	32	32	30
5	Average Velocity of Flue Gases	M/Sec.	15.3	13.40	15.4	17.7	12.60
6	Inlet	mg	1580	1849	1250	851	17500
7	outlet	mg	56	16	71	59	14
8	Efficiency	Percentage	96.5	99.1	94.3	93.1	99.9



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Ref. No. : 79/03/2011-12

Date : 19/03/2012

Form No. 37 (Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

- 1 Name of the Department/Plant.: Sinter, BF, DISP, JCO & Coating Units at Jindal Saw Limited, Samaghogha.
- 2 Raw materials, by products and finished products involved in the process. TOTAL DUST
- 3 Particulars of sampling

Period of Sampling : 5th to 10th March 2012

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Refrance Method	Number of workers exposed at the location being monitored	Remark	Signature person taking samples	Name (in block letters)
				Number of sample	Range	Average	mg/m ³					
1	Spiral Plant Nr. ID/OD	Total Dust	Personal Respirable Dust sampler APM 800	02	1-4	2	10	Gravimetric	8	----	<i>Shivpal</i>	Mr. Shivpal Singh
2	JCO Plant Nr. JCO Press	Total Dust		02	2-5	3.5	10	Gravimetric	5	----		
3	Sinter Plant At First Floor	Total Dust		02	1-4	2.1	10	Gravimetric	7	----		
4	BF Plant (Cast House)	CO		02	0.2-0.6	0.45	2	Gravimetric	3	----		
		Total Dust			1-3	1.5	10					
5	Coating Plant (Blasting Area)	Total Dust		02	3-5	4.0	10	Gravimetric	9	----		
6	DISP Plant Main Entrance	Total Dust	02	2-6	4.8	10	Gravimetric	4	----			

Instruments used : Envirotech make personal sampler, Model No. APM 800

Calibration Date Due on : 10/12/2012

For. Royal Environment Auditing & Consultancy Service



Shivpal Singh
Authorized Sign