



Royal

Environment Auditing & Consultancy Service

303-304, Shivalik-7, B/s. Bal Adalat, Gondal Road, RAJKOT - 360 002.

Ph.: +91 281 2360695 ■ E-mail : royalenvironment@live.com ■ admin@royalconsultancy.com

Ref. No. : 426/05/2012-13

Date : 05/06/2012

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	NA	NA	NA	NA	NA
15	Measured Concentration of SO ₂	ppm	---	---	---	---	---	---
16	Permissible limits for Nox	ppm	50	NA	NA	NA	NA	NA
17	Measured Concentration of Nox	ppm	---	---	---	---	---	---

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Ref. No. : 427/05/2012-13

Date : 05/06/2012

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	Stack No. 6
01	Date of Sampling	---	29-05-2012	29-05-2012	29-05-2012	---	29-05-2012	29-05-2012
02	Time of sampling	Hr.	9.30	10.45	11.45	---	13.00	15.00
03	Stack Attached to	---	Sinter Main	Tail End Stack	Flux	Primary Mixer De-duster system	SMD	Fuel Screening deduster System (Screening Flux)
04	Air Pollution Control Measures	---	ESP	ESP	Bag Filter	---	---	Dust Collector
05	Stack Height	Meter	50	50	30	30	30	30
06	Stack Diameter	Meter	2	1.3	0.7	---	1.25	---
07	Stack Temperature	°C	152	124	41	---	62	42
08	Ambient Temperature	°C	33	35	35	---	36	36
09	Average Velocity of Flue Gases	M/Sec.	6.8	6.2	5.4	---	6.1	5.5
10	Isokinetic flow rate for P.M. Sampling	LPM	20	20	22	---	23	22
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	150
13	Measured Concentration of PM.	mg/Nm ³	124	58	52	32	34	32
14	Permissible limits for SO ₂	ppm	100	NA	NA	NA	NA	NA
15	Measured Concentration of SO ₂	ppm	18	NA	NA	NA	NA	NA
16	Permissible limits for Nox	ppm	50	NA	NA	NA	NA	NA
17	Measured Concentration of Nox	ppm	30	NA	NA	NA	NA	NA

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : 2 Nos of Stack Monitoring Kit - Vayubodhan make - VSS I
Both Stack kit Recalibration is Due on : 21/04/2013

NA= Not Applicable

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Ref. No. : 428/05/2012-13

Date : 05/06/2012

STACK EMISSION MONITORING RESULTS

BLAST FURNCE-ID-18037

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	---	29-05-2012	29-05-2012	29-05-2012	29-05-2012	29-05-2012
02	Time of sampling	Hr.	10.15	11.30	12.45	16.00	9.15
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	35.0	50.0	32.00
06	Stack Diameter	Meter	1.380	1.380	1.484	2.250	---
07	Stack Temperature	°C	200	210	48	370	78
08	Ambient Temperature	°C	33	35	36	36	30
09	Average Velocity of Flue Gases	M/Sec.	10.2	9.1	8.2	10.80	6.8
10	Isokinetic flow rate for P.M. Sampling	LPM	27	24	32	21	25
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	NIL	NIL	65	30	80
14	Permissible limits for SO ₂	mg/Nm ³	40	40	40	40	100 (PPM)
15	Measured Concentration of SO ₂	mg/Nm ³	3.5	3.2	N.D.	N.D.	1.4 (PPM)
16	Permissible limits for Nox	mg/Nm ³	25	25	25	25	50 (PPM)
17	Measured Concentration of Nox	mg/Nm ³	5.2	6.5	4.2	3.2	0.92 (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

Both Stack kit Recalibration is Due on : 21/04/2013

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Ref. No. : 429/05/2012-13

Date : 05/06/2012

STACK EMISSION MONITORING RESULTS PIPE PLANT-ID-18036

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	---	30-05-2012	30-05-2012	30-05-2012	30-05-2012	30-05-2012
02	Time of sampling	Hr.	9.15	10.30	11.30	12.30	15.00
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	50	48	49	185	125
08	Ambient Temperature	°C	33	35	36	37	37
09	Average Velocity of Flue Gases	M/Sec.	14.2	12.5	13.1	10.2	9.2
10	Isokinetic flow rate for P.M. Sampling	LPM	24	22	23	28	29
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm3	150	20 (Zn)	20 (Zn)	10	150
13	Measured Concentration of PM	mg/Nm3	54	16 (Zn)	15 (Zn)	12	50
14	Permissible limits for SO2	mg/Nm3	40	NA	NA	100 (PPM)	100 (PPM)
15	Measured Concentration of SO2	mg/Nm3	N.D.	NA	NA	2.5 (PPM)	2.2 (PPM)
16	Permissible limits for Nox	mg/Nm3	25	NA	NA	50 (PPM)	50 (PPM)
17	Measured Concentration of Nox	mg/Nm3	2.1	NA	NA	2.5 (PPM)	2.8 (PPM)

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

Instrument Used : 2 Nos of Stack Monitoring Kit - Vayubodhan make - VSS I

Both Stack kit Recalibration is Due on : 21/04/2013

N.D= Not Detectable

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Ref. No. : 430/05/2012-13

Date : 05/06/2012

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	---	30-05-2012	NOT IN	30-05-2012	30-05-2012	30-05-2012
02	Time of sampling	Hr.	10.00	OPERATION	11.00	12.00	15.00
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	58	---	173	52	52
08	Ambient Temperature	°C	34	---	36	37	37
09	Average Velocity of Flue Gases	M/Sec.	21.5	---	8.2	17.5	18.2
10	Isokinetic flow rate for P.M. Sampling	LPM	15	---	24	12	13
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	32	---	127	48	55
14	Permissible limits for SO ₂	mg/Nm ³	40	100 (PPM)	100 (PPM)	40	40
15	Measured Concentration of SO ₂	mg/Nm ³	2.2	---	7.5 (PPM)	1.0	1.2
16	Permissible limits for Nox	mg/Nm ³	25	50 (PPM)	50 (PPM)	25	25
17	Measured Concentration of Nox	mg/Nm ³	3.8	---	4.1 (PPM)	3.2	3.4

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : 2 Nos of Stack Monitoring Kit - Vayubodhan make - VSS I
Both Stack kit Recalibration is Due on : 21/04/2013

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Ref. No. : 431/05/2012-13

Date : 05/06/2012

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	---	30-05-2012	30-05-2012	30-05-2012	30-05-2012
02	Time of sampling	Hr.	16.00	16.15	---	17.30
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	37	33	52	57
08	Ambient Temperature	°C	32	30	33	29
09	Average Velocity of Flue Gases	M/Sec.	9.3	12.9	13.70	11.7
10	Isokinetic flow rate for P.M. Sampling	LPM	17	24	24	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm3	150	150	150	150
13	Measured Concentration of PM	mg/Nm3	49	41	88	42
14	Permissible limits for SO2	mg/Nm3	40	40	40	40
15	Measured Concentration of SO2	mg/Nm3	N.D.	N.D.	3.6	NIL
16	Permissible limits for Nox	mg/Nm3	25	25	25	25
17	Measured Concentration of Nox	mg/Nm3	N.D.	2.2	1.0	NIL

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

Instrument Used : 2 Nos of Stack Monitoring Kit - Vayubodhan make - VSS I

Both Stack kit Recalibration is Due on : 21/04/2013

N.D= Not Detectable

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Ref. No. : 432/05/2012-13

Date : 05/06/2012

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	---	30-05-2012	30-05-2012	30-05-2012
02	Time of sampling	Hr.	17.00	18.00	13.00
03	Stack Attached to	---	Mg Converter -II	Zn Coating - III	Zn Coating - IV & V
04	Air Pollution Control Measures	---	Bag Filter	Cyclone Separator & Bag Filter	Cyclone Separator & Bag Filter
05	Stack Height	Meter	30	30	30
06	Stack Diameter	Meter	0.488	---	---
07	Stack Temperature	°C	42	48	50
08	Ambient Temperature	°C	32	32	31
09	Average Velocity of Flue Gases	M/Sec.	16.1	11.5	13.20
10	Isokinetic flow rate for P.M. Sampling	LPM	28	20	23
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	34	16 (Zn)	18 (Zn)
14	Permissible limits for SO ₂	mg/Nm ³	40	NA	NA
15	Measured Concentration of SO ₂	mg/Nm ³	N.D.	NA	NA
16	Permissible limits for Nox	mg/Nm ³	25	NA	NA
17	Measured Concentration of Nox	mg/Nm ³	2.0	NA	NA

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : 2 Nos of Stack Monitoring Kit - Vayubodhan make - VSS I
Both Stack kit Recalibration is Due on : 21/04/2013

N.D= Not Detectable

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Ref. No. : 433/05/2012-13

Date : 05/06/2012

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	----	29/05/2012	29/05/2012	29/05/2012	29/05/2012
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	51	43	48	44
11.	Permissible limits for PM 2.5	µg/m ³	60	60	60	60
12.	Measured Concentration of PM 2.5	µg/m ³	32	26	25	32
13.	Permissible limits for SO _x	µg/m ³	80	80	80	80
14.	Measured Concentration of SO _x	µg/m ³	11.9	12.5	13.4	10.7
15.	Permissible limits for No _x	µg/m ³	80	80	80	80
16.	Measured Concentration of NO _x	µg/m ³	19.8	22.3	21.6	24.2
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 : 4 Nos of Envirotech make (RDS), and 2.5 Attachment Model No. APM - 460 BL, Gaseous Sampling Kit, N.D= Not Detectable
All are Calibration due on 1.) 04/05/2013, 22/04/2013 & 10/12/2012

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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

Date of Sampling : 29nd to 31st May-2012

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concert ration (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/m3					
1	Spiral Plant Nr. ID/OD	Total Dust	Personal Respirable Dust sampler APM 800	02	1-2	1.4	10	Gravimetric	8	----	<i>Parth</i>	Mr. Parth Godhani
2	JCO Plant Nr. JCO Press	Total Dust		02	2-4	3	10	Gravimetric	5	----		
3	Sinter Plant At First Floor	Total Dust		02	1.5-2.5	2	10	Gravimetric	7	----		
	BF Plant (Cast House)	CO		02	0.2-0.5	0.35	2	Gravimetric	5	----		
		Total Dust			1-3	2	10					
5	Coating Plant (Blasting Area)	Total Dust		02	3-5	4.0	10	Gravimetric	7	----		
6	DISP Plant Main Entrance	Total Dust	02	4-6	5	10	Gravimetric	8	----			

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

Calibration Date Due on : 10/12/2012

For. Royal Environment Auditing & Consultancy Service

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Ref. No. : 435/05/2012-13

Date : 05/06/2012

WORK ZONE NOISE LEVEL MEASUREMENT

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

Date of Sampling : 29nd to 31st May-2012

Sr. No.	Location of Sampling	Results Avg. in dB(A)
01.	Inside Control Room of Sinter Plant	68.1
02.	Nr. Stock House of BF	71.3
03.	Inside Control Room of BF	67.5
04.	Inside Control Room of Blower House	72.6
05.	Inside Control of Cast House	68.5
06.	Inside Control Room of CPP	69.5
07.	Inside Control Room of Annealing Furnace of DISP	67.7
08.	Inside Laboratory of BF	70.6
09.	Inside Laboratory of DISP	68.8
10.	Inside ID & OD Control Room of JCO Plant	71.1
11.	Inside Control Room – Mill area of Spiral Plant	72.2
12.	Inside Spiral – 1	67.3
13.	Nr. Pipe cutting Area of Spiral Plant	70.8
14.	Inside JCO Plant	68.8
15.	Nr. JCO Press	72.6
16.	Inside DISP Plant	73.2
17.	Inside Coating Plant	68.2

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 : 06/10/2012

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Ref. No. : 436/05/2012-13

Date : 05/06/2012

AMBIENT NOISE LEVEL MEASUREMENT

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

Date of Sampling: 29th May 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	68.5	66.5
02.	Nr. Old Colony	67.3	65.3
03.	Nr. LPG Yard	66.5	65.8
04.	Nr. Sinter Plant	69.4	64.3
05.	Nr. R. O. Plant	70.0	67.4
06.	Nr. Gate No. 2	68.7	64.1
07.	Nr. New Colony	70.5	68.2

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 : 06/10/2012

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Ref. No. : 437/05/2012-13

Date : 05/06/2012

WATER SAMPLES ANALYSIS REPORT

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

Date of Sample Collection : 31st May 2012

Source of Sample : Borewell Water Sample From Nr, Mess

Sr. No.	Parameters	Unit	Desirable Limit(*)	Permissible Limits(*)	Results
01.	Colour	Pt.Co.Scale	5	25	Colourless
02	Odour	--	Unobjectionable	----	Odourless
03	pH	pH Unit	6.5 to 8.5	No Relaxation	7.42
04.	T.D.S.	Mg/L	500	2000	1315
05.	Total Hardness	Mg/L	300	600	626
06.	Turbidity	NTU	1	5	1.0
07.	Chloride	Mg/L	250	1000	545
08.	Alkalinity	Mg/L	200	600	325
09.	Phenolic Compound	Mg/L	0.001	0.002	NIL
10.	Residual Chlorine	Mg/L	0.2	1.0	NIL
11.	Fluoride	Mg/L	1.0	1.5	0.5
12.	Ca as Ca	Mg/L	75	200	275
13.	Mg as Mg	Mg/L	30	100	100
14.	Copper	Mg/L	0.05	1.5	NIL
15.	Iron	Mg/L	0.3	No Relaxation	0.04
16.	Manganese	Mg/L	0.1	0.3	0.08
17.	Sulphate	Mg/L	200	400	0.07
18.	Nitrate	Mg/L	45	No Relaxation	13

(*) Permissible Limit in the Absense of Alternate Source as per IS 10500 : 2012, Drinking Water Specification

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Ref. No. : 438/05/2012-13

Date : 05/06/2012

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 : 31st May 2012

Sr. No.	Parameters	Unit	GPCB limits	STP Inlet	STP Outlet
01.	pH	pH Unit	-----	7.88	7.32
02.	BOD (3 Days at 27°C)	Mg/L	20	175	15
03.	Suspended Solids	Mg/L	30	101	16
04.	Residual Chlorine	Mg/L	Min. 0.5	----	0.60

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Ref. No. : 439/05/2012-13

Date : 05/06/2012

Bag Filter Efficiency Report

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

Date of Sampling: 31st May-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	30	30	30
2	Stack Diameter	Meter	0.488	0.584	0.584	0.584	0.584
3	Stack Temperature	°C	50	48	50	52	49
4	Ambient Temperature	°C	33	35	36	37	36
5	Average Velocity of Flue Gases	M/Sec.	14.8	12.5	16.2	17.5	13.4
6	Inlet	mg	1494	1786	1324	1205	18085
7	outlet	mg	54	16	48	55	15
8	Efficiency	Percentage	96.4	99.1	96.4	95.4	99.9

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