



Royal

Environment Auditing & Consultancy Service

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Ref. No. : 651/07/2018-19

Date : 01/08/2018

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - JULY : 2018

Name of company : JINDAL SAW LIMITED
 Village: Samaghogha,
 Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 5182_2/6/10/23

Sr. No.	Particulars	Unit	Location No.1 : Weigh Bridge (Nr.Gate No-2) E							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/07/18 08.45	06/07/18 09.00	09/07/18 09.15	13/07/18 09.25	16/07/18 08.45	20/07/18 09.00	23/07/18 09.15	26/07/18 09.25
03.	Date & Time Ending of Monitoring	---	05/07/18 08.45	07/07/18 09.00	10/07/18 09.15	14/07/18 09.25	17/07/18 08.45	21/07/18 09.00	24/07/18 09.15	27/07/18 09.25
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	---	W	W	W	WNW	W	WNW	W	WNW
06.	Average Wind Speed	Km/Hr.	4.3	4.6	4.7	5.2	5.9	6.4	7.8	6.4
07.	Average flow rate for Dust Monitoring PM10	m ³ /min.	1.11	1.10	1.14	1.12	1.11	1.14	1.12	1.13
08.	Average flow rate for Dust Monitoring PM2.5	m ³ /hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
09.	Average flow rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible limits for PM10*	µg/m ³	100	100	100	100	100	100	100	100
11.	Measured Concentration of PM10	µg/m ³	52	57	53	54	58	59	53	55
12.	Permissible limits for PM2.5*	µg/m ³	60	60	60	60	60	60	60	60
13.	Measured Concentration of PM2.5	µg/m ³	33	34	37	36	35	39	35	38
14.	Permissible limits for SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	4.8	6.8	7.6	7.2	7.4	6.9	7.6	7.2
16.	Permissible limits for NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	13.8	14.3	15.9	13.7	14.8	16.7	13.8	14.6
18.	Permissible limit for CO **	µg/m ³	2000	2000	2000	2000	2000	2000	2000	2000
19.	Measured Concentration of CO	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Instrument used (1) 4 Nos. RDS (APM - 217 BL), (2) 3 Nos. of Gaseous Sampler (AAS 109) (3) 3 Nos. PM 2.5 Sampler (AAS 127)

All Calibration due on : 05/05/2019

*Permissible Limits are as per NAAQ Standard 16th November 2009.





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Ref. No. : 652/07/2018-19

Date : 01/08/2018

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - JULY : 2018

Name of company : JINDAL SAW LIMITED

Village: Samaghogha,

Tal : Mundra, Dist. Kutch

Test Method : As per IS Standards - 5182_2/6/10/23

Sr. No.	Particulars	Unit	Location No.2 : Sinter plant - 1 (NNW)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/07/18 09.00	06/07/18 09.15	09/07/18 09.25	13/07/18 08.45	16/07/18 09.00	20/07/18 09.15	23/07/18 09.25	26/07/18 08.50
03.	Date & Time Ending of Monitoring	---	05/07/18 09.00	07/07/18 09.15	10/07/18 09.25	14/07/18 08.45	17/07/18 09.00	21/07/18 09.15	24/07/18 09.25	27/07/18 08.50
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	---	W	W	WNW	W	WNW	W	WNW	WSW
06.	Average Wind Speed	Km/Hr.	5.2	4.9	5.6	6.7	6.8	7.4	5.6	6.7
07.	Average flow rate for Dust Monitoring PM10	m ³ /min.	1.13	1.11	1.13	1.10	1.11	1.14	1.13	1.14
08.	Average flow rate for Dust Monitoring PM2.5	m ³ /hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
09.	Average flow rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible limits for PM10*	µg/m ³	100	100	100	100	100	100	100	100
11.	Measured Concentration of PM10	µg/m ³	56	53	57	59	58	54	57	49
12.	Permissible limits for PM2.5*	µg/m ³	60	60	60	60	60	60	60	60
13.	Measured Concentration of PM2.5	µg/m ³	34	31	36	34	38	37	39	35
14.	Permissible limits for SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	7.6	6.9	7.1	7.3	7.5	7.9	7.8	5.7
16.	Permissible limits for NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	13.5	148.0	15.3	16.7	17.2	15.8	16.7	16.8
18.	Permissible limit for CO **	µg/m ³	2000	2000	2000	2000	2000	2000	2000	2000
19.	Measured Concentration of CO	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Instrument used : (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. of Gaseous Sampler (AAS 109) (3) 3 Nos. PM 2.5 Sampler (AAS 127)

All Calibration due on : 05/05/2019

*Permissible Limits are as per NAAQ Standard 16th November 2009

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Ref. No. : 653/07/2018-19

Date : 01/08/2018

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - JULY : 2018

Name of company : JINDAL SAW LIMITED

Village: Samaghogha,

Tal : Mundra, Dist Kutch

Test Method : As per IS Standards - 5182_2/6/10/23

Sr. No.	Particulars	Unit	Location No.3 : Nr. Work Shop Spiral-II (W)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02	Date & Time Starting of Monitoring	---	04/07/18 09 15	06/07/18 09 25	09/07/18 08 45	13/07/18 09 00	16/07/18 09 15	20/07/18 09 25	23/07/18 08 45	26/07/18 09 00
03	Date & Time Ending of Monitoring	---	05/07/18 09 15	07/07/18 09 25	10/07/18 08 45	14/07/18 09 00	17/07/18 09 15	21/07/18 09 25	24/07/18 08 45	27/07/18 09 00
04	Duration of Sampling	Min	1440 00	1440 00	1440 00	1440 00	1440 00	1440 00	1440 00	1440 00
05	Dominant Wind Direction (From)	---	W	W	WNW	W	WNW	W	WNW	WNW
06	Average Wind Speed	Km/Hr	6.2	5.6	5.8	7.3	6.4	7.6	5.8	6.7
07	Average flow rate for Dust Monitoring PM10	m ³ /min	1.13	1.11	1.10	1.14	1.13	1.12	1.11	1.14
08	Average flow rate for Dust Monitoring PM2.5	m ³ /hr	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
09	Average flow rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible limits for PM10*	µg/m ³	100	100	100	100	100	100	100	100
11.	Measured Concentration of PM10	µg/m ³	52	57	53	54	51	56	58	57
12.	Permissible limits for PM2.5*	µg/m ³	60	60	60	60	60	60	60	60
13.	Measured Concentration of PM2.5	µg/m ³	33	38	39	36	34	38	35	36
14.	Permissible limits for SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	6.2	7.1	7.6	7.4	7.5	7.2	6.2	6.7
16.	Permissible limits for NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	16.8	17.4	16.8	15.9	16.2	17.4	16.8	15.7
18.	Permissible limit for CO **	µg/m ³	2000	2000	2000	2000	2000	2000	2000	2000
19.	Measured Concentration of CO	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	B.D.L.

Instrument used : (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. of Gaseous Sampler (AAS 109) (3) 3 Nos. PM 2.5 Sampler (AAS 127)

All Calibration due on : 05/05/2019

*Permissible Limits are as per NAAQ Standard 16th November 2009.



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Ref. No. : 654/07/2018-19

Date : 01/08/2018

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - JULY : 2018

Name of company : JINDAL SAW LIMITED
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 5182_2/6/10/23

Sr. No.	Particulars	Unit	Location No.4 : MAIN GATE (E)							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/07/18 09.25	06/07/18 08.45	09/07/18 09.00	13/07/18 09.15	16/07/18 09.25	20/07/18 08.45	23/07/18 09.00	26/07/18 09.15
03.	Date & Time Ending of Monitoring	---	05/07/18 09.25	07/07/18 08.45	10/07/18 09.00	14/07/18 09.15	17/07/18 09.25	21/07/18 08.45	24/07/18 09.00	27/07/18 09.15
04.	Duration of Sampling	Min.	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00	1440.00
05.	Dominant Wind Direction (From)	---	W	W	WNW	W	WNW	W	WNW	WNW
06.	Average Wind Speed	Km/Hr.	5.2	6.1	5.9	7.4	6.3	7.8	5.8	6.7
07.	Average flow rate for Dust Monitoring PM10	m ³ /min	1.13	1.11	1.10	1.11	1.12	1.13	1.14	1.10
08.	Average flow rate for Dust Monitoring PM2.5	m ³ /hr.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
09.	Average flow rate for Gas Monitoring	LPM	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10.	Permissible limits for PM10*	µg/m ³	100	100	100	100	100	100	100	100
11.	Measured Concentration of PM10	µg/m ³	58	56	54	57	58	54	55	53
12.	Permissible limits for PM2.5*	µg/m ³	60	60	60	60	60	60	60	60
13.	Measured Concentration of PM2.5	µg/m ³	35	32	35	37	36	34	38	36
14.	Permissible limits for SO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
15.	Measured Concentration of SO ₂	µg/m ³	6.9	7.3	7.3	7.9	7.4	7.8	7.3	6.9
16.	Permissible limits for NO ₂ *	µg/m ³	80	80	80	80	80	80	80	80
17.	Measured Concentration of NO ₂	µg/m ³	14.9	15.9	15.7	16.9	16.7	16.8	17.4	17.8
18.	Permissible limit for CO **	µg/m ³	2000	2000	2000	2000	2000	2000	2000	2000
19.	Measured Concentration of CO	µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	B.D.L

Instrument used (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. of Gaseous Sampler (AAS 109) (3) 3 Nos. PM 2.5 Sampler (AAS 127)

All Calibration due on : 05/05/2019

*Permissible Limits are as per NAAQ Standard 16th November 2009.



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Ref. No. :654/07/2018-19

Date:01/08/2018

FUGITIVE EMISSION MONITORING REPORT

Name of company : JINDAL SAW LIMITED
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 5182_Part - 2/6/10/23/22

Sr. No.	Particulars	Unit	A-7	A - 8	A - 9	A - 10
01.	Location of Ambient	---	BF-1 GROUND HOPPER	BF-2 GROUND HOPPER	BF-2 CAST HOUSE	BF-2 DEDUSTING AREA
02.	Date of sampling	---	25/07/2018	25/07/2018	26/07/2018	26/07/2018
03.	Time of sampling	---	9.45	9.00	9.30	9.15
04.	Duration of Sampling	Hr.	8.00	8.00	8.00	8.00
05.	Dominant Wind Direction (From)	---	SE	SE	NE	NE
06.	Average Wind Speed	Km/Hr.	7.3	7.8	4.3	4.6
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	0.2	0.2	0.2	0.2
09.	Permissible limits for PM 10*	µg/m ³	3000	3000	3000	3000
10.	Measured Concentration of PM 10	µg/m ³	1579	1623	1469	1479
11.	Permissible limits for SO ₂ *	µg/m ³	150	150	150	150
12.	Measured Concentration of SO ₂	µg/m ³	17.2	16.9	15.7	13.7
13.	Permissible limits for NO ₂ *	µg/m ³	120	120	120	120
14.	Measured Concentration of NO ₂	µg/m ³	18.4	19.8	18.7	16.7
15.	Permissible limit for CO **	µg/m ³	2000	2000	2000	2000
16.	Measured Concentration of CO	µg/m ³	BDL	BDL	BDL	BDL
17.	Permissible limit for Pb*	µg/m ³	2	2	2	2
18.	Measured Concentration of Pb	µg/m ³	ND	ND	ND	ND

Instrument used : (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. Gaseous Sampler (APM 109)
All Calibration due on : 05/05/2019

BDL= Below Detectable Limit
ND= Not Detectable

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Ref. No. :655/07/2018-19

Date:01/08/2018

FUGITIVE EMISSION MONITORING REPORT

Name of company : JINDAL SAW LIMITED
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 5182_Part - 2/6/10/23/22

Sr. No.	Particulars	Unit	A - 1	A - 2	A - 3
01.	Location of Ambient	---	BF-1 RMH Stock House Transfer Point	BF-2 RMH Stock House Transfer Point	Sinter RMH Yard
02.	Date of sampling	---	11/07/2018	11/07/2018	10/07/2018
03.	Time of sampling	---	9.30	9.45	9.00
04.	Duration of Sampling	Hr.	8.00	8.00	8.00
05.	Dominant Wind Direction (From)	---	SE	SE	NE
06.	Average Wind Speed	Km/Hr.	7.2	7.5	6.8
07.	Average flow rate during sampling	m ³ /Hr.	1.0	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2
09.	Permissible limits for PM 10*	µg/m ³	3000	3000	3000
10.	Measured Concentration of PM 10	µg/m ³	1036	1168	1279
11.	Permissible limits for SO ₂ *	µg/m ³	150	150	150
12.	Measured Concentration of SO ₂	µg/m ³	12.8	13.7	11.2
13.	Permissible limits for NO ₂ *	µg/m ³	120	120	120
14.	Measured Concentration of NO ₂	µg/m ³	16.2	14.9	15.7
15.	Permissible limit for CO **	µg/m ³	2000	2000	2000
16.	Measured Concentration of CO	µg/m ³	BDL	BDL	BDL
17.	Permissible limit for Pb*	µg/m ³	2	2	2
18.	Measured Concentration of Pb	µg/m ³	ND	ND	ND

Instrument used : (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. Gaseous Sampler (APM 109)
All Calibration due on : 05/05/2019

BDL= Below Detectable Limit
ND= Not Detectable

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Ref. No. :656/07/2018-19

Date : 01/08/2018

FUGITIVE EMISSION MONITORING REPORT

Name of company : JINDAL SAW LIMITED
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 5182_Part - 2/6/10/23/22

Sr. No.	Particulars	Unit	A - 4	A - 5	A - 6
01.	Location of Ambient	---	Sinter 2 Ground Hopper	DISP "CCM" Area	BF-1 CAST HOUSE
02.	Date of sampling	---	10/07/2018	12/07/2018	12/07/2018
03.	Time of sampling	---	8.45	9.20	9.30
04.	Duration of Sampling	Hr.	8.00	8.00	8.00
05.	Dominant Wind Direction (From)	---	NE	SE	SE
06.	Average Wind Speed	Km/Hr.	5.8	7.9	8.6
07.	Average flow rate during sampling	m ³ /Hr.	1.0	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2	0.2
09.	Permissible limits for PM 10*	µg/m ³	3000	3000	3000
10.	Measured Concentration of PM 10	µg/m ³	1168	1286	1234
11.	Permissible limits for SO ₂ *	µg/m ³	150	150	150
12.	Measured Concentration of SO ₂	µg/m ³	10.8	12.9	11.5
13.	Permissible limits for NO ₂ *	µg/m ³	120	120	120
14.	Measured Concentration of NO ₂	µg/m ³	16.2	15.9	14.7
15.	Permissible limit for CO **	µg/m ³	2000	2000	2000
16.	Measured Concentration of CO	µg/m ³	BDL	BDL	BDL
17.	Permissible limit for Pb*	µg/m ³	2	2	2
18.	Measured Concentration of Pb	µg/m ³	ND	ND	ND

Instrument used : (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. Gaseous Sampler (APM 109)
All Calibration due on : 05/05/2019

BDL= Below Detectable Limit
ND= Not Detectable

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Ref. No. : 657/07/18-19

Date:01/08/2018

Performance Evaluation of Air Pollution Control Equipments Sinter Plant-1 (GPCB ID 35456)

Name of Company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/3

Sr. No.	Particulars	Unit	S - 3
01	Date of Sampling	---	05-07-2018
02	Attached to	---	Sinter Furnace
03	Stack Height	Meter	50
04	Stack Diameter	Meter	2.0
05	Stack Temperature	°C	152
06	Ambient Temperature	°C	32
07	Average Velocity of Flue Gases	m/sec.	13
08	IsoKinetic Flowrate for Sampling	LPM	21
09	Inlet	mg/Nm ³	1263
10	Outlet	mg/Nm ³	14
11	Efficiency	%	98.89

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on 14/09/2018

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Ref. No. : 658/07/18-19

Date : 01/08/2018

Performance Evaluation of Air Pollution Control Equipments Blast Furnace Plant-1(GPCB ID:18037)

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/3

Sr. No.	Particulars	Unit	S - 1
01	Date of Sampling	---	09-07-2018
02	Attached to	---	De-dustingSystem
03	Stack Height	Meter	35
04	Stack Duct Diameter	Meter	1.4
05	Stack Temperature	°C	46
06	Ambient Temperature	°C	32
07	Average Velocity of Flue Gases	m/sec.	13.7
08	IsoKinetic Flowrate for Sampling	LPM	21
09	Inlet	mg/Nm ³	863
10	Outlet	mg/Nm ³	11
11	Efficiency	%	98.73

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on 14/09/2018

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Ref. No. : 659/07/18-19

Date : 01/08/2018

Performance Evaluation of Air Pollution Control Equipments Sinter Plant-2 (GPCB ID:29017)

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/3

Sr. No.	Particulars	Unit	S-15	S - 7
01	Date of Sampling	---	20-06-2018	19-06-2018
02	Attached to	---	Discharging End of Sinter de-dusting system	Sinter Furnace
03	Stack Height	Meter	50	50
04	Stack Diameter	Meter	1.3	2.0
05	Stack Temperature	°C	121	148
06	Ambient Temperature	°C	32	33
07	Average Velocity of Flue Gases	m/sec.	16.4	15.6
08	IsoKinetic Flowrate for Sampling	LPM	21	22
09	Inlet	mg/Nm ³	193	1438
10	Outlet	mg/Nm ³	10	14
11	Efficiency	%	94.82	99.03

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100
Calibration due on 14/09/2018

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Ref. No. : 660/07/18-19

Date : 01/08/2018

Performance Evaluation of Air Pollution Control Equipments

Pipe Plant (GPCB ID:18036)

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/3

Sr. No.	Particulars	Unit	S - 8	S - 22
01	Date of Sampling	---	11/07/2018	11/07/2018
02	Attached to	---	Common stack Mg Converter - I & II	Mg Converter - III
03	Stack Height	Meter	30	30
04	Stack Diameter	Meter	0.5	0.5
05	Stack Temperature	°C	54	51
06	Ambient Temperature	°C	32	33
07	Average Velocity of Flue Gases	m/sec.	7.85	9.2
08	IsoKinetic Flowrate for Sampling	LPM	18	19
09	Inlet	mg/Nm ³	823	864
10	Outlet	mg/Nm ³	9	10
11	Efficiency	%	98.91	98.84

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on 14/09/2018

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Ref. No. : 661/07/18-19

Date : 01/08/2018

Performance Evaluation of Air Pollution Control Equipments Pipe Plant (GPCB ID:18036)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/3

Sr. No.	Particulars	Unit	S - 15	S - 20	S - 23
01	Date of Sampling	---	23/07/2018	19/07/2018	18/07/2018
02	Attached to	---	Zinc Coating - II	Zinc Coating - III	Zinc Coating -IV & V
03	Stack Height	Meter	30	30	30
04	Stack Duct Diameter	Meter	0.6	0.6	0.9
05	Stack Temperature	°C	45	39	41
06	Ambient Temperature	°C	32	33	32
07	Average Velocity of Flue Gases	m/sec.	8.6	10.6	11.6
08	IsoKinetic Flowrate for Sampling	LPM	18	19	17
09	Inlet	mg/Nm ³	421	462	1039
10	Outlet	mg/Nm ³	8	9	11
11	Efficiency	%	98.10	98.05	98.94

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on 14/09/2018

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Ref. No. : 662/07/17-18

Date : 01/08/2018

Performance Evaluation of Air Pollution Control Equipments Pipe Plant (SDP-2) (GPCB ID:18036)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/3

Sr. No.	Particulars	Unit	S - 1	S - 5	S-8
01	Date of Sampling	---	12/07/2018	13/07/2018	12/07/2018
02	Attached to	---	Mg Treatment	Zinc Coating	Zinc Coating machine(FL-7)
03	Stack Height	Meter	30	30	30
04	Stack Duct Diameter	Meter	1.00	1.00	0.8
05	Stack Temperature	°C	45	43	51
06	Ambient Temperature	°C	32	31	32
07	Average Velocity of Flue Gases	m/sec.	9.4	9.2	8.7
08	IsoKinetic Flowrate for Sampling	LPM	19	18	18
09	Inlet	mg/Nm ³	1039	379	421
10	Outlet	mg/Nm ³	12	6	9
11	Efficiency	%	98.85	98.42	97.86

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on 14/09/2018

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Ref. No. : 663/07/18-19

Date : 01/08/2018

Performance Evaluation of Air Pollution Control Equipments Blast Furnace Plant-2 (GPCB ID:29026)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/3

Sr. No.	Particulars	Unit	S - 1
01	Date of Sampling	---	10/07/2018
02	Attached to	---	Dedusting System
03	Stack Height	Meter	40
04	Stack Duct Diameter	Meter	1.5
05	Stack Temperature	°C	42
06	Ambient Temperature	°C	31
07	Average Velocity of Flue Gases	m/sec.	11.8
08	IsoKinetic Flowrate for Sampling	LPM	21
09	Inlet	mg/Nm ³	1138
10	Outlet	mg/Nm ³	10
11	Efficiency	%	99.12

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on 14/09/2018

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Ref. No. : 664/07/17-18

Date : 01/08/2018

STACK EMISSION MONITORING RESULTS

Sinter Plant - 1(GPCB ID:35456)

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/2/3/7

Sr. No.	Particulars	Unit	S - 3	S - 4	S - 5	S - 6
01	Date of Sampling	---	05-07-2018	06-07-2018	06-07-2018	06-07-2018
02	Time of sampling	---	8.50	9.20	11.25	14.20
03	Stack Attached to	---	Sinter Furnace	Primary Mixture House	Secondary Mixture House	Discharge End
04	Air Pollution Control Measures	---	ESP	ESP
05	Stack Height	Meter	50	19.75	36.08	32
06	Stack Diameter	Meter	2.0	1.25	1.25	1.30
07	Stack Temperature	°C	134	36	39	123
08	Ambient Temperature	°C	33	32	32	33
09	Average Velocity of Flue Gases	m/sec	9.8	6.3	5.8	7.9
10	Isokinetic flow rate for P.M. Sampling	LPM	17	12	11	18
11	Gaseous Sampling Flow Rate	LPM	2.0	NA	NA	NA
12	Permissible limits for PM	mg/Nm ³	150	150	150	150
13	Measured Concentration of PM	mg/Nm ³	14	17	11	16
14	Permissible limits for SO ₂	ppm	100	NA	NA	NA
15	Measured Concentration of SO ₂	ppm	6.2
16	Permissible limits for NO _x	ppm	50	NA	NA	NA
17	Measured Concentration of NO _x	ppm	14.8

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100
Calibration due on : 14/09/2018

NA= Not Applicable
ND=Not Detectable





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Ref. No. : 665/07/18-19

Date : 01/08/2018

STACK EMISSION MONITORING RESULTS

Sinter Plant -2 (GPCB ID:29017)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/2/3/7

Sr. No.	Particulars	Unit	S - 1	S - 2	S - 7	S - 9
01	Date of Sampling	---	06-07-2018	10-07-2018	07-07-2018	07-07-2018
02	Time of sampling	Hr.	9.45	11.15	12.25	15.45
03	Stack Attached to	---	Secondary Mixer House	Fuel crushing de-duster system (Flux)	Sinter Furnace	Discharging End of sinter de-dusting system
04	Air Pollution Control Measures	---	Dust Collector	Dust Collector	ESP	ESP
05	Stack Height	Meter	30	30	50	50
06	Stack Diameter	Meter	0.7	0.7	2	1.3
07	Stack Temperature	°C	43	44	132	124
08	Ambient Temperature	°C	31	33	32	32
09	Average Velocity of Flue Gases	m/sec.	3.60	6.90	11.3	10.9
10	Isokinetic flow rate for P.M. Sampling	LPM	10	15	19	18
11	Gaseous Sampling Flow Rate	LPM	NA	NA	2.0	NA
12	Permissible limits for PM	mg/Nm ³	150	150	150	150
13	Measured Concentration of PM	mg/Nm ³	8	12	15	10
14	Permissible limits for SO ₂	ppm	NA	NA	100	NA
15	Measured Concentration of SO ₂	ppm	---	---	7.4	---
16	Permissible limits for NO _x	ppm	NA	NA	50	NA
17	Measured Concentration of NO _x	ppm	---	---	16.8	---

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

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on : 14/09/2018

NA= Not Applicable

ND= Not Detectable

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Ref. No. : 666/07/18-19

Date : 01/08/2018

STACK EMISSION MONITORING RESULTS BLAST FURNACE-1 (GPCB ID:18037)

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/2/3/7

Sr. No.	Particulars	Unit	S - 1	S - 2	S - 3
01	Date of Sampling	---	09/07/2018	09/07/2018	09/07/2018
02	Time of sampling	Hr.	9.50	10.45	15.25
03	Stack Attached to	---	Dedusting System	Boiler - I	Boiler - II
04	Air Pollution Control Measures	---	Bag Filter	---	---
05	Stack Height	Meter	35.0	45	45
06	Stack Diameter	Meter	1.5	1.4	1.4
07	Stack Temperature	°C	44	153	152
08	Ambient Temperature	°C	31	32	32
09	Average Velocity of Flue Gases	m/sec.	12.6	7.8	8.1
10	Isokinetic flow rate for P.M. Sampling	LPM	22	20	19
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	50	50
13	Measured Concentration of PM.	mg/Nm ³	10	8	9
14	Permissible limits for SO ₂	ppm	100	250	250
15	Measured Concentration of SO ₂	ppm	ND	7.6	6.2
16	Permissible limits for NO _x	ppm	50	150	150
17	Measured Concentration of NO _x	ppm	ND	11.4	10.6
18	Permissible limits for CO vol/vol	%	N.A.	1 % Max.	1 % Max.
19	Measured Concentration of CO vol/vol	%	N.A.	0.1	0.1

Note : Minimum Detectable Limit of SO₂ & Nox is 0.1 and 0.01 ppm respectively.
Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100
Calibration due on : 14/09/2018

N.D=Not Detectable
N.A.=Not Applicable





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Ref. No. : 667/07/18-19

Date : 01/08/2018

STACK EMISSION MONITORING RESULTS BLAST FURNACE - 2 (GPCB ID:29026)

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/2/3/7

Sr. No.	Particulars	Unit	S - 1
01	Date of Sampling	---	10/07/2018
02	Time of sampling	Hr.	10.45
03	Stack Attached to	---	Dedusting System
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	40.0
06	Stack Diameter	Meter	1.5
07	Stack Temperature	°C	39
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/sec.	8.1
10	Isokinetic flow rate for P.M. Sampling	LPM	17
11	Gaseous Sampling Flow Rate	LPM	NA
12	Permissible limits for PM	mg/Nm ³	150
13	Measured Concentration of PM.	mg/Nm ³	9
14	Permissible limits for SO ₂	mg/Nm ³	NA
15	Measured Concentration of SO ₂	mg/Nm ³	---
16	Permissible limits for No _x	mg/Nm ³	NA
17	Measured Concentration of NO _x	mg/Nm ³	---

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

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on : 14/09/2018

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Ref. No. : 668/07/2018-19

Date : 01/08/2018

STACK EMISSION MONITORING RESULTS Pipe Plant (GPCB ID:18036)

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Test Method : As per IS Standards - 11255_Part - 1/2/3/7

Sr. No.	Particulars	Unit	S - 1	S - 2
01	Date of Sampling	---	18/07/2018	18/07/2018
02	Time of sampling	Hr.	9.45	10.25
03	Stack Attached to	---	Pickling & Passivation -1	Pickling & Passivation -2
04	Air Pollution Control Measures	---	Wet Scrubber	Wet Scrubber
05	Stack Height	Meter	15.0	15.0
06	Stack Diameter	Meter	-	-
07	Stack Temperature	°C	32	32
08	Ambient Temperature	°C	31	31
09	Average Velocity of Flue Gases	m/sec.	6.5	6.1
10	Isokinetic flow rate for P.M. Sampling	LPM	-	-
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	NA	NA
13	Measured Concentration of PM	mg/Nm ³	-	-
14	Permissible limits for SO ₂	mg/Nm ³	40	40
15	Measured Concentration of SO ₂	mg/Nm ³	9.7	12.1
16	Permissible limits for NO _x	mg/Nm ³	25	25
17	Measured Concentration of NO _x	mg/Nm ³	10.6	12.7

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

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on : 14/09/2018

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Ref. No. : 669/07/2018-19

Date : 01/08/2018

STACK EMISSION MONITORING RESULTS

Pipe Plant (GPCB 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	S - 8	S - 9	S - 15	S - 20	S - 22	S - 23
01	Date of Sampling	---	11/07/2018	23/07/2018	23/07/2018	19/07/2018	11/07/2018	18/07/2018
02	Time of sampling	Hr.	9.30	9.45	15.10	9.45	10.25	15.23
03	Stack Attached to	---	Common stack Mg Converter- I&II	Zn Coating - I	Zn Coating - II	Zn Coating - III	Mg Converter -III	Zn Coating - IV & V
04	Air Pollution Control Measures	---	Bag Filter	Cyclone Separator & Bag Filter	Cyclone Separator & Bag Filter	Cyclone Separator & Bag Filter	Bag Filter	Cyclone Separator & Bag Filter
05	Stack Height	Meter	30	30	30	30	30	30
06	Stack Diameter	Meiter	0.5	0.6	0.6	0.6	0.5	0.9
07	Stack Temperature	°C	58	36	39	39	49	57
08	Ambient Temperature	°C	33	32	32	33	32	32
09	Average Velocity of Flue Gases	m/sec.	9.8	7.2	6.8	9.2	7.4	9.2
10	Isokinetic flow rate for P.M. Sampling	LPM	18	24	23	17	24	18
11	Gaseous Sampling Flow Rate	LPM	2.0	---	---	---	---	---
12	Permissible limits for PM	mg/Nm ³	150	20 (Zn)	20 (Zn)	20 (Zn)	150	20 (Zn)
13	Measured Concentration of PM	mg/Nm ³	9	10	8(Zn)	9 (Zn)	10	11 (Zn)
14	Permissible limits for SO ₂	mg/Nm ³	40	NA	NA	NA	40	NA
15	Measured Concentration of SO ₂	mg/Nm ³	ND	---	---	---	ND	---
16	Permissible limits for NO _x	mg/Nm ³	25	NA	NA	NA	25	NA
17	Measured Concentration of NO _x	mg/Nm ³	4.9	---	---	---	4.1	---

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

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on : 14/09/2018

NA=Not Applicable

ND=Not Detectable

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Ref. No. : 670/07/2018-19

Date : 01/08/2018

STACK EMISSION MONITORING RESULTS Pipe Plant (GPCB 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	S - 1	S - 2	S - 3	S - 4	S - 12	S - 18
01	Date of Sampling	---	14/07/2018	14/07/2018	14/07/2018	16/07/2018	24/07/2018	16/07/2018
02	Time of sampling	Hr.	9.30	10.15	11.10	9.30	10.30	10.45
03	Stack Attached to	---	Core Shop-I	Core Shop-II	Core Shop-III	Core Shop-IV	Core Cleaning & Dusting-I	Core Cleaning & Dusting-II
04	Air Pollution Control Measures	---	---	---	---	---	Bag Filter	Bag Filter
05	Stack Height	Meter	30	30	30	30	30	30
06	Stack Diameter	Meter	0.584	0.58	0.584	0.584	0.6	0.6
07	Stack Temperature	°C	35	36	39	43	39	38
08	Ambient Temperature	°C	32	33	32	32	33	32
09	Average Velocity of Flue Gases	m/sec.	2.1	2.2	2.0	2.2	9.1	6.8
10	Isokinetic flow rate for P.M. Sampling	LPM	10	9	10	8	18	24
11	Gaseous Sampling Flow Rate	LPM	2.0	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	12	9	10	9	12	10
14	Permissible limits for SO ₂	mg/Nm ³	40	40	40	40	40	40
15	Measured Concentration of SO ₂	mg/Nm ³	3.8	4.2	4.8	3.9	ND	ND
16	Permissible limits for NO _x	mg/Nm ³	25	25	25	25	25	25
17	Measured Concentration of NO _x	mg/Nm ³	4.2	5.1	5.3	5.2	4.8	5.1

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

ND= Not Detectable

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on : 14/09/2018

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Ref. No. : 671/07/2018-19

Date:01/08/2018

STACK EMISSION MONITORING RESULTS Pipe Plant (GPCB 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	S - 7
01	Date of Sampling	---	16/07/2018
02	Time of sampling	Hr.	16.30
03	Stack Attached to	---	Sand Reclamation
04	Air Pollution Control Measures	---	Bag Filter
05	Stack Height	Meter	30
06	Stack Diameter	Meter	0.9
07	Stack Temperature	°C	91
08	Ambient Temperature	°C	32
09	Average Velocity of Flue Gases	m/sec.	8.4
10	Isokinetic flow rate for P.M. Sampling	LPM	24
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM	mg/Nm ³	16
14	Permissible limits for SO₂	mg/Nm³	40
15	Measured Concentration of SO ₂	mg/Nm ³	4.1
16	Permissible limits for NO_x	mg/Nm³	25
17	Measured Concentration of NO _x	mg/Nm ³	10.8

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

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on : 14/09/2018





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Ref. No. : 672/07/2018-19

Date:01/08/2018

STACK EMISSION MONITORING RESULTS

Pipe Plant (SDP-2) (GPCB 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	S - 1	S - 2	S - 4	S - 5	S - 6	S - 8
01	Date of Sampling	—	12/07/2018	13/07/2018	14/07/2018	13/07/2018	13/07/2018	12/07/2018
02	Time of sampling	Hr.	9.50	9.3	—	10.25	15.30	16.30
03	Stack Attached to	—	Magnesium Treatment	Socket Cleaning	Annealing Furnace - II	Zinc Coating	Tri- Grinding Section	Zinc Coating Machine(FL-7)
04	Air Pollution Control Measures	—	Bag Filter	Bag Filter	—	Bag Filter	Bag Filter	Cyclone Separator & Bag Filter
05	Stack Height	Meter	30	30	45	30	30	30
06	Stack Diameter	Meter	1.00	0.50	0.85	1.00	1.00	1.20
07	Stack Temperature	°C	49	41	90	37	40	38
08	Ambient Temperature	°C	32	32	33	32	32	32
09	Average Velocity of Flue Gases	m/sec	7.4	4.9	3.5	4.5	2.30	4.8
10	Isokinetic flow rate for PM Sampling	LPM	24	20	15	18	16	19
11	Gaseous Sampling Flow Rate	LPM	—	—	—	—	—	—
12	Permissible limits for PM	mg/Nm ³	50	50	160	50	50	50
13	Measured Concentration of PM	mg/Nm ³	12	13	9	7 (Zn)	10	9 (Zn)
14	Permissible limits for SO ₂	PPM	NA	NA	100 (PPM)	NA	NA	NA
15	Measured Concentration of SO ₂	PPM	—	—	1.2	—	—	—
16	Permissible limits for NO _x	PPM	NA	NA	50 (PPM)	NA	NA	NA
17	Measured Concentration of NO _x	PPM	—	—	8.2 (PPM)	—	—	—

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

Instrument Used : Stack Monitoring Kit - Ecotech make - ESS 100

Calibration due on : 14/09/2018

ND= Not Detectable

N.A= Not Applicable

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Hitesh
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Ref. No. : 678/07/2018-19

Date:01/08/2018

AMBIENT NOISE LEVEL MEASUREMENT

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Date of sampling : 4th JULY, 2018

Sr. No.	Location of Sampling	Value in dB(A) Day Time			Value in dB(A) Night Time		
		Min.	Max.	Leq	Min.	Max.	Leq
01.	Admin. Building	43.1	62.4	53.5	41.2	55.9	51.5
02.	Nr. DISP	42.4	58.1	50.7	41.3	56.1	48.6
03.	Nr. LPG Yard	43.9	55.2	52.3	43.1	56.4	50.7
04.	New Colony (School)	41.9	49.6	47.1	41.8	51.7	45.7
05.	Nr. SDP-2	51.1	65.2	57.4	52.4	57.2	54.7
06.	Nr. JCO	57.1	64.7	62.1	50.8	58.9	55.4
07.	Nr. Gate No. 2	53.5	64.5	57.2	44.6	63.4	53.1
08.	Nr. Sinter Plant-1	54.5	74.1	63.7	55.1	65.4	59.1
09.	Nr. Sinter Plant-2	51.8	74.1	64.5	53.1	68.1	60.7
10.	Nr. Blast Furnace-2	57.2	65.8	61.4	51.6	66.8	60.1
11.	Nr. Spiral-1	53.7	63.4	60.8	45.1	64.8	55.7
12.	Nr. Main Gate (Security Office)	52.2	63.9	56.7	43.7	61.5	54.3

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

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

Recalibration is due on : 14/09/2018

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Ref. No. : 679/07/2018-19

Date:01/08/2018

WORK ZONE NOISE LEVEL MEASUREMENT

SINTER PLANT- 1 (GPCB ID:35456)

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Date of sampling : 6th JULY, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
1	Inside Control Room	42.1	57.8	51.2
2	Inside Mechanical Room	42.8	62.4	53.6
3	Inside Electrical Room	42.9	61.1	54.3
4	Sinter Machine area	44.2	61.2	55.2

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

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

Recalibration is due on : 14/09/2018

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Ref. No. : 680/07/2018-19

Date:01/08/2018

WORK ZONE NOISE LEVEL MEASUREMENT BLAST FURNACE- 1 (GPCB ID:18037)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Date of sampling : 9th JULY, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Stock House	63.2	77.4	71.4
02.	Inside BF Control Room	48.5	56.8	53.1
03.	Near Cast House	46.3	63.7	56.8
04.	Inside Laboratory	40.7	54.5	47.5
05.	Inside Control Room of Blower House	50.8	60.3	56.2
06.	Inside Control Room of CPP	48.9	56.4	52.7

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

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

Recalibration is due on : 14/09/2018

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Ref. No. : 681/07/2018-19

Date:01/08/2018

WORK ZONE NOISE LEVEL MEASUREMENT PIPE PLANT (GPCB ID:18036)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Date of sampling :4th,11th ,& 13th JULY, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside Control Room of Annealing Furnace of DISP	42.2	56.7	51.3
02	Inside Control Room – Mill Area of Spiral Plant	54.4	64.7	60.8
03	Nr. Pipe Cutting Area of Spiral Plant	59.1	78.5	67.4
04	Inside JCO Plant (De-coiler Area)	63.3	67.6	65.5
01.	Nr. CCM area of DISP Plant	52.5	70.9	61.4
06	Nr. CCM of SDP-2	64.3	74.1	68.5
07	Inside Control Room of Annealing Furnace of SDP-2	72.8	81.1	77.4
08	Nr. Zinc Coating of SDP-2	62.7	77.4	72.5
09	Nr.application area of Coating Plant- 1	70.8	78.9	77.9
10	Near Mould Shop	62.3	75.4	72.8

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

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

Recalibration is due on : 14/09/2018

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Ref. No. : 682/07/2018-19

Date:01/08/2018

WORK ZONE NOISE LEVEL MEASUREMENT BLAST FURNACE - 2 (GPCB ID:29026)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Date of sampling : 10th JULY, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside BF Control Room	46.8	64.4	56.8
02.	Stock House	48.2	66.3	57.8
03.	Nr. Cast House	57.9	67.2	63.5

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

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

Recalibration is due on : 14/09/2018

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Ref. No. : 683/07/2018-19

Date:01/08/2018

WORK ZONE NOISE LEVEL MEASUREMENT

SINTER PLANT - 2 (29017)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Date of sampling : 7th JULY, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside Control Room	44.1	62.5	53.4
02.	Sinter Machine area	47.9	64.4	55.3
03.	Near Proportioning Building	51.8	68.7	61.4
04.	Near Crusher House	58.2	73.2	65.2

Instruments used : Sound level meter, Model : SL - 4030 (Lutron Make)

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

Recalibration is due on : 14/09/2018

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Ref. No. : 684/07/2018-19

Date : 1/08/2018

REPORT OF DOMESTIC WASTE WATER ANALYSIS

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Source of Sample Collection : Sewage Treatment Plant (Inlet & Outlet)

Date of Sampling : 27/07/2018

Test Method : As per IS Standards - 3025

Sr. No.	Parameters	Unit	GPCB limits for Treated Effluent	Raw Sewage	Treated Effluent
01.	pH	pH Unit	---	7.31	7.42
02.	BOD (3 Days at 27°C)	mg/l	<20	145	2
03.	Total Dissolve Solid	mg/l	...	1087	1267
04.	COD	mg/l	...	118	6
05.	Total Suspended Solid	mg/l	<30	120	2
06.	Oil & Grease	mg/l	...	ND	ND
07.	Fecal Coliform	MPN/100ml	1000	NA	Absent
08.	Residual Chlorine	mg/l	Min. 0.5		0.72

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Ref. No. : 685/07/2018-19

Date:- 01/08/2018

WATER & WASTE WATER QUALITY ANALYSIS REPORT

Name of company : JINDAL SAW LIMITED,
Village: Samaghogha,
Tal. : Mundra, Dist. Kutch

Source of Sample : Effluent Treatment Plant

Date of Sampling : 27/07/2018

Sr. No.	Parameters	Unit	Permissible limit	Results
01.	pH	...	6.5 to 8.5	7.28
02.	Colour	pt.co.units	100	18
03.	Tempreture	°C	40	33
04.	Total suspended solids	mg/l	100	11
05.	Total dissolve solids	mg/l	2100	1379
06.	Phenolic compounds	mg/l	1	ND
07.	Oil & Grease	mg/l	10	ND
08.	Chlorides	mg/l	600	324
09.	Sulphate	mg/l	1000	467
10.	Ammonical nitrogen (as NH ₃ -N)	mg/l	50	1.27
11.	BOD (3 Days at 27°C)	mg/l	30	9.8
12.	COD	mg/l	100	43.0

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Analyst

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 Plant-2 at JINDAL SAW LIMITED, Samaghogha. (GPCB ID:29017)**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST**
- 3 Particulars of sampling

Date of Sampling : 7th JULY, 2018

Sr. No	Location Operation monitored	Identified Contaminante	Sampling Instrument used	Airborne Contamination			TWA concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remarks	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	Sinter Plant-2 (Sinter Machine area)	Total Dust	Personal Respirable Dust sampler VPDS 203	02	1.2-2.8	2.00	10 mg/m ³	Gravimetric	4	---	Hitesh	Mr. Hitesh Umletiya

Instruments used : Vaibhav make personal sampler, Model No. VPDS 203

Calibration Due on. : 12/03/2019

For: Royal Environment Auditing & Consultancy Service



Hitesh
Authorized Sign

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 Plant-1 at JINDAL SAW LIMITED, Samaghogha. (GPCB ID: 35456)**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST**
- 3 Particulars of sampling

Date of Sampling : 6th JULY, 2018

Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA Concentration (As given in Second Schedule) mg/m ³	Reference Method	Number of workers exposed at the location being monitored	Remark	Signature of person taking samples	Name (in block letters)	
			Number of sample	Range	Average							
0												
1	Sinter Plant-1 (Sinter Machine area)	Total Dust	Personal Respirable Dust sampler VPDS 203	02	1.1-3.2	2.2	10	Gravimetric	5	----	Hitesh	Mr. Hitesh Umletiya

Instruments used : Vaibhav make personal sampler, Model No. VPDS 203

Calibration Due on. : 12/03/2019



For: Royal Environment Auditing & Consultancy Service

Stajadeja
Authorized Sign

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.: **BF Plant-1 at JINDAL SAW LIMITED, Samaghogha. (GPCB ID: 18037)**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST & CO.**
- 3 Particulars of sampling

Date of Sampling : 9th JULY, 2018

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA Concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remark	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	BF Plant-1 (Cast House)	CO	Personal Respirable Dust sampler VPDS 203	02	4.4-12.3	8.4	50 (ppm)	Gravimetric	5	---	<i>Hitesh</i>	Mr. Hitesh Umletiya
					1.3-2.6	1.95						
		Total Dust										

Instruments used : Valbhav make personal sampler, Model No. VPDS 203
 Calibration Due on : 12/03/2019

For. Royal Environment Auditing & Consultancy Service



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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 : **BF Plant-2 at JINDAL SAW LIMITED, Samaghogha. (GPCB ID: 29026)**
- 2 Raw materials, by products and finished products involved in the process. **TOTAL DUST & CO.**
- 3 Particulars of sampling

Date of Sampling : 10th JULY, 2018

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA Concentration (As given in Second Schedule)	Reference Method	Number of workers exposed at the location being monitored	Remark	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	BF Plant-2 (Cast House)	CO	Personal Respirable Dust sampler VPDS 203	02	6-16	11 (ppm)	50 (ppm)	Gravimetric	4	----	Hitesh	Mr. Hitesh Umletiya
					1.3-2.8	2.1	10					
		Total Dust										

Instruments used : Vaibhav make personal sampler, Model No. VPDS 203

Calibration Due on : 12/03/2019

For. Royal Environment Auditing & Consultancy Service



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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.: DISP,JCO & Coating Units at JINDAL SAW LIMITED, Samaghogha,(GPCB ID: 18036)
- 2 Raw materials, by products and finished products involved in the process. TOTAL DUST
- 3 Particulars of sampling

Date of Sampling : 4th ,4th 11th , 13th JULY , 2018


Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA Concentration (As given in Second Schedule) mg/m ³	Reference Method	Number of workers exposed at the location being monitored	Remark	Signature of person taking samples	Name (in block letters)
				Number of sample	Range	Average						
1	Spiral Plant-1 (Nr. ID/OD)	Total Dust	Personal Respirable Dust sampler VPDS 203	02	1.2-2.8	2.0	10	Gravimetric	4	---	Hitesh	Mr. Hitesh Umletiya
2	DISP Plant (CCM Area)	Total Dust		02	1.2-3.1	2.2	10	Gravimetric	6	---		
3	Coating Plant-2 (Shot Blasting)	Total Dust	Personal Respirable Dust sampler VPDS 203	02	1.8-3.8	2.8	10	Gravimetric	7	---	Hitesh	Mr. Hitesh Umletiya
4	SDP-2 (CCM Area)	Total Dust		02	1.1-2.7	1.9	10	Gravimetric	5	---		

Instruments used : Vaibhav make personal sampler, Model No VPDS 203

Calibration Due on : 12/03/2019



For. Royal Environment Auditing & Consultancy Service


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