



Royal

Environment Auditing & Consultancy Service

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

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Ref. No. : 861/12/2018-19

Date : 28/12/2018

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - DECEMBER : 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 : STP							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/12/18 09.15	07/12/18 09.00	10/12/18 09.00	14/12/18 09.30	17/12/18 08.45	21/12/18 09.15	24/12/18 09.00	26/12/18 09.15
03.	Date & Time Ending of Monitoring	---	05/12/18 09.15	08/12/18 09.00	11/12/18 09.00	14/12/18 09.30	18/12/18 08.45	22/12/18 09.15	24/12/18 09.00	26/12/18 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)	---	WNW	WNW	S	NW	NW	WNW	WNW	WNW
06.	Average Wind Speed	Km/Hr.	4.9	3.3	1.7	7.6	11.6	5.5	3	4.1
07.	Average flow rate for Dust Monitoring PM10	m ³ /min.	1.11	1.14	1.11	1.15	1.1	1.15	1.13	1.12
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	63	59	64	61	63	62	59	61
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	41	38	39	40	43	44	41	45
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	8.0	7.7	8.4	7.2	8.6	7.4	8.3	7.9
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	16.4	15.8	15.3	15.9	16.3	16.1	15.9	15.8
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	B.D.L.	B.D.L.

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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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							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/12/18 09.00	07/12/18 09.30	10/12/18 09.15	14/12/18 08.45	17/12/18 09.00	21/12/18 09.30	24/12/18 08.45	26/12/18 09.00
03.	Date & Time Ending of Monitoring	---	05/12/18 09.00	08/12/18 09.30	11/12/18 09.15	14/12/18 08.45	18/12/18 09.00	22/12/18 09.30	24/12/18 08.45	26/12/18 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)	---	WNW	WNW	S	NW	NW	WNW	WNW	WNW
06.	Average Wind Speed	Km/Hr.	4.9	3.3	1.7	7.6	11.6	5.5	3	4.1
07.	Average flow rate for Dust Monitoring PM10	m ³ /min.	1.12	1.15	1.11	1.14	1.15	1.13	1.11	1.12
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	65	59	62	61	57	61	64	62
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	43	41	44	42	41	44	40	42
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	8.2	7.9	8.5	8.1	8.2	8.1	7.9	7.8
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	16.1	15.3	16.1	16.8	17.8	16.2	17.4	17.5
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. : 863/12/2018-19

Date : 28/12/2018

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - DECEMBER : 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. Spiral-II Pipe Storage Yard							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/12/18 09.30	07/12/18 08.45	10/12/18 08.45	14/12/18 09.00	17/12/18 09.30	21/12/18 08.45	24/12/18 09.15	26/12/18 09.30
03.	Date & Time Ending of Monitoring	---	05/12/18 09.30	08/12/18 08.45	11/12/18 08.45	14/12/18 09.00	18/12/18 09.30	22/12/18 08.45	24/12/18 09.15	26/12/18 09.30
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)	---	WNW	WNW	S	NW	NW	WNW	WNW	WNW
06.	Average Wind Speed	Km/Hr.	4.9	3.3	1.7	7.6	11.6	5.5	3	4.1
07.	Average flow rate for Dust Monitoring PM10	m ³ /min.	1.12	1.15	1.14	1.11	1.13	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	61	62	58	64	61	58	62	65
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	44	43	41	43	45	40	39	44
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	8.5	7.9	8.1	8.4	8.5	7.8	7.9	8.0
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	18.5	18.6	17.9	18.2	18.4	17.9	17.6	18.5
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	B.D.L.	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

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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 : Old Colony							
			1	2	3	4				
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/12/18 08.45	07/12/18 09.15	10/12/18 09.30	14/12/18 09.15	17/12/18 09.15	21/12/18 09.00	24/12/18 09.30	26/12/18 08.45
03.	Date & Time Ending of Monitoring	---	05/12/18 08.45	08/12/18 09.15	11/12/18 09.30	14/12/18 09.15	18/12/18 09.15	22/12/18 09.00	24/12/18 09.30	26/12/18 08.45
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)	---	WNW	WNW	S	NW	NW	WNW	WNW	WNW
06.	Average Wind Speed	Km/Hr.	4.9	3.3	1.7	7.6	11.6	5.5	3	4.1
07.	Average flow rate for Dust Monitoring PM10	m ³ /min	1.15	1.12	1.11	1.15	1.13	1.12	1.11	1.15
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	61	64	60	62	59	61	65	62
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	42	40	39	42	44	45	39	40
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	8.1	8.4	8.2	8.5	8.0	8.1	8.2	7.9
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	16.4	17.5	17.2	18.2	17.8	18.2	17.8	18.1
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	B D L.	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. :865/12/2018-19

Date : 28/12/2018

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 - 1
01.	Location of Ambient	---	BF-2 GROUND HOPPER	BF-2 RMH Stock House
02.	Date of sampling	---	12/12/2018	15/12/2018
03.	Time of sampling	---	9.45	9.30
04.	Duration of Sampling	Hr.	8.00	8.00
05.	Dominant Wind Direction (From)	---	WNW	NW
06.	Average Wind Speed	Km/Hr.	1.9	12.2
07.	Average flow rate during sampling	m ³ /Hr.	1.0	1.0
08.	Average flow rate for Gas sampling	LPM	0.2	0.2
09.	Permissible limits for PM 10*	µg/m ³	3000	3000
10.	Measured Concentration of PM 10	µg/m ³	1523	1118
11.	Permissible limits for SO ₂ *	µg/m ³	150	150
12.	Measured Concentration of SO ₂	µg/m ³	17.9	14.2
13.	Permissible limits for NO ₂ *	µg/m ³	120	120
14.	Measured Concentration of NO ₂	µg/m ³	18.1	17.9
15.	Permissible limit for CO **	µg/m ³	2000	2000
16.	Measured Concentration of CO	µg/m ³	BDL	BDL
17.	Permissible limit for Pb*	µg/m ³	2	2
18.	Measured Concentration of Pb	µg/m ³	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

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Ref. No. :866/11/2018-19

Date : 28/12/2018

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 - 3
01.	Location of Ambient	---	Sinter RMH Yard
02.	Date of sampling	---	13/12/2018
03.	Time of sampling	---	9.00
04.	Duration of Sampling	Hr.	8.00
05.	Dominant Wind Direction (From)	---	WNW
06.	Average Wind Speed	Km/Hr.	5.3
07.	Average flow rate during sampling	m ³ /Hr.	1.0
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible limits for PM 10*	µg/m³	3000
10.	Measured Concentration of PM 10	µg/m ³	1278
11.	Permissible limits for SO₂*	µg/m³	150
12.	Measured Concentration of SO ₂	µg/m ³	12.4
13.	Permissible limits for NO₂*	µg/m³	120
14.	Measured Concentration of NO ₂	µg/m ³	16.5
15.	Permissible limit for CO **	µg/m³	2000
16.	Measured Concentration of CO	µg/m ³	BDL
17.	Permissible limit for Pb*	µg/m³	2
18.	Measured Concentration of Pb	µg/m ³	ND

Instrument used : (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. Gaseous Sampler (APMBDL= Below Detectable Limit

All Calibration due on : 05/05/2019

ND= Not Detectable

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Ref. No. :867/12/2018-19

Date : 28/12/2018

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 - 5
01.	Location of Ambient	---	DISP CCM Area
02.	Date of sampling	---	13/12/2018
03.	Time of sampling	---	9.30
04.	Duration of Sampling	Hr.	8.00
05.	Dominant Wind Direction (From)	---	wNW
06.	Average Wind Speed	Km/Hr.	5.3
07.	Average flow rate during sampling	m ³ /Hr.	1.0
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible limits for PM 10*	µg/m³	3000
10.	Measured Concentration of PM 10	µg/m ³	1115
11.	Permissible limits for SO₂*	µg/m³	150
12.	Measured Concentration of SO ₂	µg/m ³	12.4
13.	Permissible limits for NO₂*	µg/m³	120
14.	Measured Concentration of NO ₂	µg/m ³	16.2
15.	Permissible limit for CO **	µg/m³	2000
16.	Measured Concentration of CO	µg/m ³	BDL
17.	Permissible limit for Pb*	µg/m³	2
18.	Measured Concentration of Pb	µg/m ³	ND

Instrument used : (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. Gaseous Sampler (APM 109)

All Calibration due on : 05/05/2019

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Ref. No. :867/12/2018-19

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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 - 6
01.	Location of Ambient	---	BF-1 CAST HOUSE
02.	Date of sampling	---	12/12/2018
03.	Time of sampling	---	10.00
04.	Duration of Sampling	Hr.	8.00
05.	Dominant Wind Direction (From)	---	WNW
06.	Average Wind Speed	Km/Hr.	1.9
07.	Average flow rate during sampling	m ³ /Hr.	1.0
08.	Average flow rate for Gas sampling	LPM	0.2
09.	Permissible limits for PM 10*	µg/m³	3000
10.	Measured Concentration of PM 10	µg/m ³	1165
11.	Permissible limits for SO₂*	µg/m³	150
12.	Measured Concentration of SO ₂	µg/m ³	13.1
13.	Permissible limits for NO₂*	µg/m³	120
14.	Measured Concentration of NO ₂	µg/m ³	15.4
15.	Permissible limit for CO **	µg/m³	2000
16.	Measured Concentration of CO	µg/m ³	BDL
17.	Permissible limit for Pb*	µg/m³	2
18.	Measured Concentration of Pb	µg/m ³	ND

Instrument used : (1) 3 Nos. RDS (APM - 217 BL), (2) 3 Nos. Gaseous Sampler (APM) BDL= Below Detectable Limit
All Calibration due on : 05/05/2019 ND= Not Detectable

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Ref. No. : 868/12/18-19

Date : 28/12/2018

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	---	10-12-2018
02	Attached to	---	Sinter Furnace
03	Stack Height	Meter	50
04	Stack Diameter	Meter	2.0
05	Stack Temperature	°C	143
06	Ambient Temperature	°C	30
07	Average Velocity of Flue Gases	m/sec.	16
08	IsoKinetic Flowrate for Sampling	LPM	23
09	Inlet	mg/Nm ³	1318
10	Outlet	mg/Nm ³	20
11	Efficiency	%	98.48

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

Calibration due on 12/09/2019

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Ref. No. : 869/12/18-19

Date : 28/12/2018

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	---	22-12-2018
02	Attached to	---	De-dustingSystem
03	Stack Height	Meter	35
04	Stack Duct Diameter	Meter	1.4
05	Stack Temperature	°C	42
06	Ambient Temperature	°C	30
07	Average Velocity of Flue Gases	m/sec.	14.5
08	IsoKinetic Flowrate for Sampling	LPM	25
09	Inlet	mg/Nm ³	868
10	Outlet	mg/Nm ³	8
11	Efficiency	%	99.08

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

Calibration due on 12/09/2019

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Ref. No. : 870/12/18-19

Date : 28/12/2018

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	---	08-12-2018	07-12-2018
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	133	143
06	Ambient Temperature	°C	29	31
07	Average Velocity of Flue Gases	m/sec.	18.87	17.0
08	IsoKinetic Flowrate for Sampling	LPM	26	23
09	Inlet	mg/Nm ³	235	1458
10	Outlet	mg/Nm ³	18	22
11	Efficiency	%	92.34	98.49

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

Calibration due on 12/09/2019



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Ref. No. : 871/12/18-19

Date : 28/12/2018

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 - 22
01	Date of Sampling	---	06/12/2018
02	Attached to	---	Mg Converter - III
03	Stack Height	Meter	30
04	Stack Diameter	Meter	0.5
05	Stack Temperature	°C	49
06	Ambient Temperature	°C	28
07	Average Velocity of Flue Gases	m/sec.	8.98
08	IsoKinetic Flowrate for Sampling	LPM	17
09	Inlet	mg/Nm ³	882
10	Outlet	mg/Nm ³	12
11	Efficiency	%	98.64

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

Calibration due on 12/09/2019

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Ref. No. : 872/12/18-19

Date : 28/12/2018

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	---	05/12/2018	26/12/2018	24/12/2018
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	37	36	46
06	Ambient Temperature	°C	29	30	29
07	Average Velocity of Flue Gases	m/sec.	10.4	12.8	12.7
08	IsoKinetic Flowrate for Sampling	LPM	19	23	21
09	Inlet	mg/Nm ³	447	452	973
10	Outlet	mg/Nm ³	15	12	14
11	Efficiency	%	96.64	97.35	98.56

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

Calibration due on 12/09/2019

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Ref. No. : 873/12/18-19

Date : 28/12/2018

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	---	20/12/2018	21/12/2018	19/12/2018
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	49	40	46
06	Ambient Temperature	°C	30	29	30
07	Average Velocity of Flue Gases	m/sec.	10.1	11.6	10.7
08	IsoKinetic Flowrate for Sampling	LPM	19	18	20
09	Inlet	mg/Nm ³	1056	423	449
10	Outlet	mg/Nm ³	19	14	15
11	Efficiency	%	98.20	96.69	96.66

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

Calibration due on 12/09/2019

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Ref. No. : 874/12/18-19

Date : 28/12/2018

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	---	18/12/2018
02	Attached to	---	Dedusting System
03	Stack Height	Meter	40
04	Stack Duct Diameter	Meter	1.5
05	Stack Temperature	°C	40
06	Ambient Temperature	°C	29
07	Average Velocity of Flue Gases	m/sec.	13.6
08	IsoKinetic Flowrate for Sampling	LPM	25
09	Inlet	mg/Nm ³	1157
10	Outlet	mg/Nm ³	14
11	Efficiency	%	98.79

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

Calibration due on 12/09/2019



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Ref. No. : 875/12/18-19

Date : 28/12/2018

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 - 1	S - 3	S - 4	S - 5	S - 6
01	Date of Sampling	---	17-12-2018	10-12-2018	17-12-2018	17-12-2018	10-12-2018
02	Time of sampling	---	10.30	9.30	10.30	11.25	14.20
03	Stack Attached to	---	Fuel & Flux Crusher and Screening building	Sinter Furnace	Primary Mixture House	Secondary Mixture House	Discharge End
04	Air Pollution Control Measures	---	Bag Filter	ESP	....	....	ESP
05	Stack Height	Meter	32.0	50	19.75	36.08	32
06	Stack Diameter	Meter	1.40	2.0	1.25	1.25	1.30
07	Stack Temperature	°C	36	137	38	35	130
08	Ambient Temperature	°C	30	29	30	31	30
09	Average Velocity of Flue Gases	m/sec.	7.51	10.2	6.9	3.5	10.7
10	Isokinetic flow rate for P.M. Sampling	LPM	15	15	17	13	15
11	Gaseous Sampling Flow Rate	LPM	NA	2.0	NA	NA	NA
12	Permissible limits for PM	mg/Nm ³	150	150	150	150	150
13	Measured Concentration of PM	mg/Nm ³	15	20	12	9	24
14	Permissible limits for SO ₂	ppm	NA	100	NA	NA	NA
15	Measured Concentration of SO ₂	ppm	...	7.8	....	....	....
16	Permissible limits for NO _x	ppm	NA	50	NA	NA	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 : 12/09/2019

NA= Not Applicable

ND=Not Detectable

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Ref. No. : 876/12/18-19

Date : 28/12/2018

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 - 3	S - 5	S - 7	S - 9
01	Date of Sampling	---	08-12-2018	19-12-2018	07-12-2018	07-12-2018	08-12-2018
02	Time of sampling	Hr.	9.45	12.10	10.30	12.25	15.45
03	Stack Attached to	---	Secondary Mixer House	Fuel Screening deduster System (Flux Screening)	Primary Mixer De-duster system	Sinter Furnace	Discharging End of sinter dedusting system
04	Air Pollution Control Measures	---	Dust Collector	Dust Collector	Dust Collector	ESP	ESP
05	Stack Height	Meter	30	30	20	50	50
06	Stack Diameter	Meter	0.7	0.7	0.7	2	1.3
07	Stack Temperature	°C	37	44	34	136	129
08	Ambient Temperature	°C	30	29	30	31	29
09	Average Velocity of Flue Gases	m/sec.	3.07	7.10	3.19	11.4	11.9
10	Isokinetic flow rate for P.M. Sampling	LPM	15	12	18	19	21
11	Gaseous Sampling Flow Rate	LPM	NA	NA	NA	2.0	NA
12	Permissible limits for PM	mg/Nm ³	150	150	150	150	150
13	Measured Concentration of PM	mg/Nm ³	15	13	12	22	18
14	Permissible limits for SO ₂	ppm	NA	NA	NA	100	NA
15	Measured Concentration of SO ₂	ppm	---	---	---	7.9	---
16	Permissible limits for NO _x	ppm	NA	NA	NA	50	NA
17	Measured Concentration of NO _x	ppm	---	---	---	17.9	---

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 : 12/09/2019

NA= Not Applicable

ND= Not Detectable





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Ref. No. : 877/12/18-19

Date : 28/12/2018

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	---	22/12/2018	22/12/2018	22/12/2018
02	Time of sampling	Hr.	15.00	11.00	12.00
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	34	158	156
08	Ambient Temperature	°C	29	30	31
09	Average Velocity of Flue Gases	m/sec.	9.2	8.3	7.9
10	Isokinetic flow rate for P.M. Sampling	LPM	17	18	20
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150	150
13	Measured Concentration of PM.	mg/Nm ³	8	4	3
14	Permissible limits for SO ₂	ppm	100	100	100
15	Measured Concentration of SO ₂	ppm	ND	7.6	7.7
16	Permissible limits for NO _x	ppm	50	50	50
17	Measured Concentration of NO _x	ppm	ND	11.9	11.8
18	Permissible limits for CO vol/vol	%	N.A.	1 % Max.	1 % Max.
19	Measured Concentration of CO vol/vol	%	N.A.	0.2	0.2

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 : 12/09/2019



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Ref. No. : 878/12/18-19

Date : 28/12/2018

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	S - 4	S - 5
01	Date of Sampling	---	18/12/2018	18/12/2018	18/12/2018
02	Time of sampling	Hr.	10.45	10.30	12.30
03	Stack Attached to	---	Dedusting System	Coke fine building dust collecting system	Iron Ore fine & Dust Collecting System
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	Bag Filter
05	Stack Height	Meter	40.0	30.0	30.0
06	Stack Diameter	Meter	1.5	0.45	0.35
07	Stack Temperature	°C	36	33	37
08	Ambient Temperature	°C	29	29	31
09	Average Velocity of Flue Gases	m/sec.	10.8	6.1	4.8
10	Isokinetic flow rate for P.M. Sampling	LPM	20	22	18
11	Gaseous Sampling Flow Rate	LPM	NA	NA	NA
12	Permissible limits for PM	mg/Nm ³	150	150	150
13	Measured Concentration of PM.	mg/Nm ³	14	14	17
14	Permissible limits for SO ₂	mg/Nm ³	NA	NA	NA
15	Measured Concentration of SO ₂	mg/Nm ³	---	---	---
16	Permissible limits for No _x	mg/Nm ³	NA	NA	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.

NA=Not Applicable

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

Calibration due on : 12/09/2019

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Ref. No. : 879/12/2018-19

Date : 28/12/2018

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 - 23
01	Date of Sampling	---	06/12/2018	05/12/2018	05/12/2018	26/12/2018	24/12/2018
02	Time of sampling	Hr.	9.30	9.45	15.10	9.45	15.23
03	Stack Attached to	---	Mg Converter-III	Zn Coating - I	Zn Coating - II	Zn Coating - III	Zn Coating - IV & V
04	Air Pollution Control Measures	---	Bag Filter	Cyclone Separator & Bag Filter	Cyclone Separator & Bag Filter	Cyclone Separator & Bag Filter	Cyclone Separator & Bag Filter
05	Stack Height	Meter	30	30	30	30	30
06	Stack Diameter	Meter	0.5	0.6	0.6	0.6	0.9
07	Stack Temperature	°C	43	38	34	34	41
08	Ambient Temperature	°C	30	28	29	30	29
09	Average Velocity of Flue Gases	m/sec.	6.74	7.9	6.9	9.1	8.7
10	Isokinetic flow rate for P.M. Sampling	LPM	19	14	15	18	17
11	Gaseous Sampling Flow Rate	LPM	2.0	---	---	---	---
12	Permissible limits for PM	mg/Nm ³	150	20 (Zn)	20 (Zn)	20 (Zn)	20 (Zn)
13	Measured Concentration of PM	mg/Nm ³	12	12	15(Zn)	12(Zn)	14(Zn)
14	Permissible limits for SO ₂	mg/Nm ³	40	NA	NA	NA	NA
15	Measured Concentration of SO ₂	mg/Nm ³	ND	---	---	---	---
16	Permissible limits for NO _x	mg/Nm ³	25	NA	NA	NA	NA
17	Measured Concentration of NO _x	mg/Nm ³	4.2	---	---	---	---

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 : 12/09/2019

NA=Not Applicable

NA=Not Applicable

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Ref. No. : 880/12/2018-19

Date : 28/12/2018

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 - 3	S - 4	S - 12
01	Date of Sampling	---	25/12/2018	25/12/2018	25/12/2018	26/12/2018
02	Time of sampling	Hr.	9.30	11.10	9.30	10.30
03	Stack Attached to	---	Core Shop-I	Core Shop-II	Core Shop-III	Core Cleaning & Dusting-I
04	Air Pollution Control Measures	---	---	---	---	Bag Filter
05	Stack Height	Meter	30	30	30	30
06	Stack Diameter	Meter	0.584	0.584	0.584	0.6
07	Stack Temperature	°C	34	40	43	35
08	Ambient Temperature	°C	29	29	29	31
09	Average Velocity of Flue Gases	m/sec.	2.6	2.7	2.9	7.7
10	Isokinetic flow rate for P.M. Sampling	LPM	11	10	12	14
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	11	10	9	18
14	Permissible limits for SO ₂	mg/Nm ³	40	40	40	40
15	Measured Concentration of SO ₂	mg/Nm ³	5.6	4.7	5.1	ND
16	Permissible limits for NO _x	mg/Nm ³	25	25	25	25
17	Measured Concentration of NO _x	mg/Nm ³	6.4	6.1	6.2	5.8

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 : 12/09/2019

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Ref. No. : 881/12/2018-19

Date : 28/12/2018

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	S - 13
01	Date of Sampling	---	25/12/2018	24/12/2018
02	Time of sampling	Hr.	16.30	11.00
03	Stack Attached to	---	Sand Reclamation	Annealing Furnace
04	Air Pollution Control Measures	---	Bag Filter	---
05	Stack Height	Meter	30	32
06	Stack Diameter	Meter	0.9	1.375
07	Stack Temperature	°C	94	129
08	Ambient Temperature	°C	30	29
09	Average Velocity of Flue Gases	m/sec.	8.7	7.1
10	Isokinetic flow rate for P.M. Sampling	LPM	14	21
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150
13	Measured Concentration of PM	mg/Nm ³	23	6
14	Permissible limits for SO ₂	mg/Nm ³	40	100 (PPM)
15	Measured Concentration of SO ₂	mg/Nm ³	6.1	2.9
16	Permissible limits for NO _x	mg/Nm ³	25	50 (PPM)
17	Measured Concentration of NO _x	mg/Nm ³	12.9	8.4 (PPM)

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 : 12/09/2019



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Ref. No. : 882/12/2018-19

Date : 28/12/2018

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 - 8
01	Date of Sampling	---	20/12/2018	20/12/2018	21/12/2018	21/12/2018	19/12/2018
02	Time of sampling	Hr.	9.50	9.3	15.30	10.25	16.30
03	Stack Attached to	---	Magnesium Treatment	Socket Cleaning	Annealing Furnace-II	Zinc Coating	Zinc Coating Machine(FL-7)
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter	---	Bag Filter	Cyclone Separator & Bag Filter
05	Stack Height	Meter	30	30	45	30	30
06	Stack Diameter	Meter	1.00	0.50	0.85	1.00	1.20
07	Stack Temperature	°C	45	36	125	37	35
08	Ambient Temperature	°C	29	30	30	31	30
09	Average Velocity of Flue Gases	m/sec	7.6	6.1	7.9	6.1	6.1
10	Isokinetic flow rate for PM Sampling	LPM	15	22	23	24	22
11	Gaseous Sampling Flow Rate	LPM	---	---	2.00	---	---
12	Permissible limits for PM	mg/Nm ³	50	50	150	50	50
13	Measured Concentration of PM	mg/Nm ³	19	17	9	14 (Zn)	15 (Zn)
14	Permissible limits for SO ₂	PPM	NA	NA	100 (PPM)	NA	NA
15	Measured Concentration of SO ₂	PPM	---	---	2.9	---	---
16	Permissible limits for NO _x	PPM	NA	NA	50 (PPM)	NA	NA
17	Measured Concentration of NO _x	PPM	---	---	8.4 (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 : 12/09/2019

ND= Not Detectable

N.A= Not Applicable

Royal Environment Auditing & Consultancy Service



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Ref. No. : 888/12/2018-19

Date : 28/12/2018

AMBIENT NOISE LEVEL MEASUREMENT

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Date of sampling : 12th December, 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	40.8	65.7	55.9	40.8	57.9	53.4
02.	OHC	43.1	54.9	52.1	45.2	53.8	52.4
03.	Nr. LPG Yard	44.7	56.8	53.1	44.1	57.9	52.4
04.	New Colony (School)	42.9	52.4	51.1	42.8	53.9	49.2
05.	Behid FL-7	51.4	67.8	57.9	53.8	60.5	58.2
06.	Nr. Coating-1	56.4	67.4	66.1	53.1	61.7	55.8
07.	Nr. Coating-2	52.8	64.8	61.4	44.9	66.8	56.1
08.	Nr. Sinter Plant-1 Canteen	51.4	76.8	64.8	53.2	69.5	61.9
9.	Blast Furnace RMHS	58.9	66.9	64.9	53.8	67.4	62.1
10.	Spiral-2-Behind work shop	55.8	64.8	61.4	47.1	65.2	58.9
11.	Chairman Bungalow	43.5	57.1	51.2	40.8	54.2	47.2
12.	301 Yard	54.1	65.8	62.8	54.6	66.8	63.7
13.	Guest House	42.8	62.8	54.2	43.5	59.7	49.5
14.	Harvesting pond	55.9	66.8	61.2	44.8	66.7	56.1

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 : 12/09/2019



Royal Environment Auditing & Consultancy Service

Analyst

Hitesh



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Ref. No. : 889/12/2018-19

Date : 28/12/2018

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 : 10th December, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
1	Inside Control Room	41.5	60.8	55.1
2	Near Crusher	53.4	67.1	60.8
3	Sinter Machine area	42.1	64.5	56.8

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 : 12/09/2019



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Ref. No. : 890/12/2018-19

Date : 28/12/2018

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 : 22nd December 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Stock House	61.4	76.4	71.9
02.	Inside BF Control Room	54.8	56.7	54.9
03.	Cast House	48.9	64.5	58.7
04.	Inside Laboratory	44.8	53.7	49.1
05.	Inside Control Room of Blower House	51.7	60.5	58.9
06.	Inside Control Room of CPP	46.7	56.8	55.7

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 : 12/09/2019

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Ref. No. : 891/12/2018-19

Date : 28/12/2018

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: 20th, 25th & 26th December, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside Control Room of Annealing Furnace of DISP	40.9	58.7	53.4
02	Inside Control Room – Mill Area of Spiral Plant	54.7	64.7	63.5
03	Nr. Pickling & passivation Area of JCO Plant	44.8	55.7	53.8
01.	Nr. Induction Furnace area of DISP Plant	53.2	70.8	65.4
06	Nr. Induction Furnace of SDP-2	58.7	74.2	67.4
07	Inside Control Room of Annealing Furnace of SDP-2	71.8	82.4	77.5
08	Nr. Zinc Coating of FL-7	64.2	75.4	72.9
09	Nr. Application area of Coating Plant- 1	70.8	77.5	76.8
10	Near Mould Shop	64.1	76.5	73.4

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 : 12/09/2019



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Ref. No. : 892/12/2018-19

Date : 28/12/2018

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 : 18th December, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside BF Control Room	45.1	65.2	57.3
02.	Stock House	51.2	69.2	58.3
03.	Inside control room of blower house	48.2	59.6	56.7
03.	Nr. Cast House	57.1	70.1	67.2

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 : 12/09/2019



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Ref. No. : 893/12/2018-19

Date : 28/12/2018

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 December, 2018

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside Control Room	42.8	63.2	55.9
02.	Sinter Machine area	45.7	66.2	58.9
03.	Near Proportioning Building	51.8	71.8	62.7
04.	Near Crusher House	58.7	73.5	68.2

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 : 12/09/2019



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Ref. No. : 894/12/2018-19

Date : 28/12/2018

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 : 12/12/2018

Test Method : As per IS Standards - 3025

Sr. No.	Parameters	Unit	GPCB limits for Treated Effluent	Raw Sewage	Treated Effluent
01.	pH	pH Unit	---	6.5	7.65
02.	BOD (3 Days at 27°C)	mg/l	<30	148	8
03.	Total Dissolve Solid	mg/l	...	2034	1478
04.	COD	mg/l	...	130	10
05.	Total Suspended Solid	mg/l	<100	125	5
06.	Oil & Grease	mg/l	...	ND	ND
07.	Fecal Coliform	MPN/100ml	1000	NA	Absent
08.	Residual Chlorine	mg/l	Min. 0.5		0.57

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Ahitesh
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-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 : 10th December, 2018

0	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							mg/m^{3}
1	Sinter Plant-1 (Sinter Machine area)	Total Dust	Personal Respirable Dust sampler VPDS 203	02	1.4-3.2	2.2	10	Gravimetric	4	---	<i>Hitesh</i>	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

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-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 December, 2018

Sr. No	Location Operation monitored	Identified Contaminant	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	1.2-3.3	2.35	10	Gravimetric	5	---	<i>Hitesh Umletiya</i>	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 Umletiya
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 : 22nd December, 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							mg/m^{3}
1	BF Plant-1 (Cast House)	CO	Personal Respirable Dust sampler VPDS 203	02	4.5-11.5	8.7	50 (ppm)	Gravimetric	6	---	Hitesh	Mr. Hitesh Umletiya
		Total Dust			1.2-3.4	2.05	10					

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

For, Royal Environment Auditing & Consultancy Service

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-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 : 18th December, 2018

Sr. No	Location Operation monitored	Identified Contaminant	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							mg/m^{3}
1	BF Plant-2 (Cast House)	CO	Personal Respirable Dust sampler VPDS 203	02	4-16	10 (ppm)	50 (ppm)	Gravimetric	5	---	Hitesh	Mr. Hitesh Umletiya
		Total Dust			1.3-2.1	1.7	10					

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.,CO & 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 : 20th, 25th & 26th December, 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	Spiral Plant-1 (Nr. ID/OD)	Total Dust	Personal Respirable Dust sampler VPDS 203	02	1.3-2.2	2.3	10	Gravimetric	7	---	 Hitesh Mr. Hitesh Umletiya	Mr. Hitesh Umletiya
2	Coating Plant-2 (Application area)	Total Dust		02	1.3-2.4	1.90	10	Gravimetric	6	---		
3	DISP Plant (CCM Area)	Total Dust		02	1.2-2.1	2.1	10	Gravimetric	5	---		
4	SDP-2 (CCM Area)	Total Dust		02	1.4-2.6	2.4	10	Gravimetric	4	---		

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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