



Royal

Environment Auditing & Consultancy Service

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Ref. No. : 51/03/2018-19

Date : 31/03/2019

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - MARCH : 2019

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

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

NABL Certificate No. : TC 5948

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	---	04/03/19 09.10	08/03/19 09.15	12/03/19 09.00	16/03/19 09.00	18/03/19 09.15	22/03/19 09.15	25/03/19 09.30	29/03/19 08.45
03.	Date & Time Ending of Monitoring	---	05/03/19 09.10	09/03/19 09.15	13/03/19 09.00	17/03/19 09.00	19/03/19 09.15	23/03/19 09.15	26/03/19 09.30	30/03/19 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)	---	NNW	WNW	N	WNW	WNW	NNW	WNW	WNW
06.	Average Wind Speed	Km/Hr.	4.5	5.2	6.5	4.4	3.2	5.3	6.8	7.2
07.	Average flow rate for Dust Monitoring PM10	m ³ /min.	1.10	1.20	1.20	1.10	1.1	1.2	1.20	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	48	60	45	59	50	40	48	46
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	34	30	38	34	45	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	9.3	9.5	10.2	9.4	11.5	10.3	9.4	10.2
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	18.5	17.3	16.8	17.5	19.3	17.7	18.8	17.3
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 : RDS (APM - 217 BL), Gaseous Sampler (AAS 109), PM 2.5 Sampler (AAS 127)

Parameters are not covered in NABL Scope

All Calibration due on : 05/05/2019

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

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Ref No. : 52/03/2018-19

Date : 31/03/2019

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - MARCH : 2019

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

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	Location No.2 : Vikasapuram							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/03/19 09.20	08/03/19 09.35	12/03/19 09.15	16/03/19 09.10	18/03/19 09.25	22/03/19 09.35	25/03/19 09.45	29/03/19 09.00
03.	Date & Time Ending of Monitoring	---	05/03/19 09.20	09/03/19 09.35	13/03/19 09.15	17/03/19 09.10	19/03/19 09.25	23/03/19 09.35	26/03/19 09.45	30/03/19 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)	---	NNW	WNW	N	WNW	WNW	NNW	WNW	WNW
06.	Average Wind Speed	Km/Hr.	4.5	5.2	6.5	4.4	3.2	5.3	6.8	7.2
07.	Average flow rate for Dust Monitoring PM10	m ³ /min	1.20	1.30	1.40	1.20	1.30	1.20	1.1	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	54	45	52	60	52	58	54
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	30	32	34	36	38	49	48	33
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	10.2	9.3	9.8	12.5	10.7	11.7	12.8	13.5
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	18.3	19.7	17.0	22.5	21.4	23.3	24.5	22.3
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 : RDS (APM - 217 BL), Gaseous Sampler (AAS 109), PM 2.5 Sampler (AAS 127)

Parameters are not covered in NABL Scope

All Calibration due on 05/05/2019

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

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Ref. No. : 53/03/2018-19

Date : 31/03/2019

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - MARCH : 2019

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

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

NABL Certificate No. : TC 5948

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	---	04/03/19 09 30	08/03/19 09 45	12/03/19 09.25	16/03/19 09.20	18/03/19 09 35	22/03/19 09.45	25/03/19 09 55	29/03/19 09.15
03.	Date & Time Ending of Monitoring	---	05/03/19 09 30	09/03/19 09.45	13/03/19 09.25	17/03/19 09.20	19/03/19 09.35	23/03/19 09 45	26/03/19 09 55	30/03/19 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)	---	NNW	WNW	N	WNW	WNW	NNW	WNW	WNW
06.	Average Wind Speed	Km/Hr	4 5	5.2	6 5	4.4	3 2	5 3	6 8	7 2
07.	Average flow rate for Dust Monitoring PM10	m ³ /min.	1 13	1.11	1 12	1.14	1 13	1.14	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	64	66	61	55	58	63	62	64
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	39	42	41	39	38	34	36	47
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	10.2	11 5	12 6	11 4	12 3	11 3	12 4	11 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	24 3	19 3	21 9	22 4	23 3	22 4	23 8	24 4
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 : RDS (APM - 217 BL), Gaseous Sampler (AAS 109), PM 2.5 Sampler (AAS 127)

Parameters are not covered in NABL Scope

All Calibration due on : 05/05/2019

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

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Ref. No. : 54/03/2018-19

Date : 31/03/2019

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - MARCH : 2019

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

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	Location No.4 : Old Colony							
			1	2	3	4	5	6	7	8
01.	No. of Week	---								
02.	Date & Time Starting of Monitoring	---	04/03/19 09.45	08/03/19 09.55	12/03/19 09.40	16/03/19 09.40	18/03/19 09.55	22/03/19 09.55	25/03/19 10.05	29/03/19 09.25
03.	Date & Time Ending of Monitoring	---	05/03/19 09.45	09/03/19 09.55	13/03/19 09.40	17/03/19 09.40	19/03/19 09.55	23/03/19 09.55	26/03/19 10.05	30/03/19 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)	---	NNW	WNW	N	WNW	WNW	NNW	WNW	WNW
06.	Average Wind Speed	Km/Hr.	4.5	5.2	6.5	4.4	3.2	5.3	6.8	7.2
07.	Average flow rate for Dust Monitoring PM10	m ³ /min	1.11	1.13	1.14	1.13	1.12	1.11	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	55	51	57	60	56	61	58	54
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	38	40	39	46	44	42	41
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	12.8	11.8	12.3	11.2	12.5	13.3	14.5	13.8
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	20.5	22.3	21.1	22.5	23.4	24.5	23.3	22.5
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 RDS (APM - 217 BL), Gaseous Sampler (AAS 109), PM 2.5 Sampler (AAS 127)

Parameters are not covered in NABL Scope

All Calibration due on : 05/05/2019

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

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Ref. No. :55/03/2018-19

Date : 31/03/2019

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
01.	Location of Ambient	----	BF-2 GROUND HOPPER
02.	Date of sampling	----	28/03/2019
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.	4.1
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	1425
11.	Permissible limits for SO₂*	µg/m³	150
12.	Measured Concentration of SO ₂	µg/m ³	15.5
13.	Permissible limits for NO₂*	µg/m³	120
14.	Measured Concentration of NO ₂	µg/m ³	20.2
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

Parameters are not covered in NABL Scope

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Ref. No. :56/03/2018-19

Date : 31/03/2019

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 **NABL Certificate No. : TC 5948**

Sr. No.	Particulars	Unit	A - 3
01.	Location of Ambient	---	Sinter -2 Ground Hopper
02.	Date of sampling	---	20/03/2019
03.	Time of sampling	---	9.15
04.	Duration of Sampling	Hr.	8.00
05.	Dominant Wind Direction (From)	---	WNW
06.	Average Wind Speed	Km/Hr.	3.8
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/m ³	3000
10.	Measured Concentration of PM 10	µg/m ³	1410
11.	Permissible limits for SO ₂ *	µg/m ³	150
12.	Measured Concentration of SO ₂	µg/m ³	13.5
13.	Permissible limits for NO ₂ *	µg/m ³	120
14.	Measured Concentration of NO ₂	µg/m ³	23.5
15.	Permissible limit for CO **	µg/m ³	2000
16.	Measured Concentration of CO #	µg/m ³	BDL
17.	Permissible limit for Pb*	µg/m ³	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)

BDL= Below Detectable Limit

All Calibration due on : 05/05/2019

ND= Not Detectable

Parameters are not covered in NABL Scope

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Ref. No. 57/03/2018-19

Date : 31/03/2019

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 **NABL Certificate No. : TC 5948**

Sr. No.	Particulars	Unit	A - 5
01.	Location of Ambient	—	DISP Induction Furnace Area
02.	Date of sampling	—	20/03/2019
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.	3.8
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/m ³	3000
10.	Measured Concentration of PM 10	µg/m ³	1225
11.	Permissible limits for SO ₂ *	µg/m ³	150
12.	Measured Concentration of SO ₂	µg/m ³	14.3
13.	Permissible limits for NO ₂ *	µg/m ³	120
14.	Measured Concentration of NO ₂	µg/m ³	22.5
15.	Permissible limit for CO **	µg/m ³	2000
16.	Measured Concentration of CO #	µg/m ³	BDL
17.	Permissible limit for Pb*	µg/m ³	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

Parameters are not covered in NABL Scope

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Ref. No. :58/03/2018-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	A - 6	A - 1
01.	Location of Ambient	---	BF-1 CAST HOUSE	BF-1 RMH Stock House
02.	Date of sampling	---	14/03/2019	28/03/2019
03.	Time of sampling	---	10.15	9.15
04.	Duration of Sampling	Hr.	8.00	8.00
05.	Dominant Wind Direction (From)	---	ESE	ESE
06.	Average Wind Speed	Km/Hr.	5.4	4.8
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	1225	1320
11.	Permissible limits for SO ₂ *	µg/m ³	150	150
12.	Measured Concentration of SO ₂	µg/m ³	14.3	16.2
13.	Permissible limits for NO ₂ *	µg/m ³	120	120
14.	Measured Concentration of NO ₂	µg/m ³	17.3	19.5
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

Parameters are not covered in NABL Scope

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Ref. No. : 59/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 3
01	Date of Sampling	---	06-03-2019
02	Attached to	---	Sinter Furnace
03	Stack Height	Meter	50
04	Stack Diameter	Meter	2.0
05	Stack Temperature	°C	140
06	Ambient Temperature	°C	33
07	Average Velocity of Flue Gases	m/sec.	15
08	IsoKinetic Flowrate for Sampling	LPM	21
09	PM Concentration in Inlet	mg/Nm ³	1430
10	PM Concentration in Outlet	mg/Nm ³	20
11	Efficiency	%	98.60

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

Calibration due on 12/09/2019

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Ref. No. : 60/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 1
01	Date of Sampling	---	22-03-2019
02	Attached to	---	De-dustingSystem
03	Stack Height	Meter	35
04	Stack Duct Diameter	Meter	1.4
05	Stack Temperature	°C	45
06	Ambient Temperature	°C	36
07	Average Velocity of Flue Gases	m/sec.	15.1
08	IsoKinetic Flowrate for Sampling	LPM	25
09	PM Concentration in Inlet	mg/Nm ³	912
10	PM Concentration in Outlet	mg/Nm ³	9
11	Efficiency	%	98.68

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

Calibration due on 12/09/2019

Royal Environment Auditing & Consultancy Service



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Ref. No. : 61/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 7
01	Date of Sampling	---	07-03-2019
02	Attached to	---	Sinter Furnace
03	Stack Height	Meter	50
04	Stack Diameter	Meter	2.0
05	Stack Temperature	°C	140
06	Ambient Temperature	°C	38
07	Average Velocity of Flue Gases	m/sec.	16.5
08	IsoKinetic Flowrate for Sampling	LPM	19
09	PM Concentration in Inlet	mg/Nm ³	1339
10	PM Concentration in Outlet	mg/Nm ³	23
11	Efficiency	%	98.28

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

Calibration due on 12/09/2019

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Ref. No. : 62/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 8
01	Date of Sampling	---	05/03/2019
02	Attached to	---	Common stack Mg Converter - I & II
03	Stack Height	Meter	30
04	Stack Diameter	Meter	0.5
05	Stack Temperature	°C	66
06	Ambient Temperature	°C	37
07	Average Velocity of Flue Gases	m/sec.	8.15
08	IsoKinetic Flowrate for Sampling	LPM	16
09	PM Concentration in Inlet	mg/Nm ³	935
10	PM Concentration in Outlet	mg/Nm ³	24
11	Efficiency	%	97.43

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

Calibration due on 12/09/2019

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Ref. No. : 63/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 1	S-8
01	Date of Sampling	---	04/03/2019	04/03/2019
02	Attached to	---	Mg Treatment	Zinc Coating
03	Stack Height	Meter	30	30
04	Stack Duct Diameter	Meter	1.00	1
05	Stack Temperature	°C	55	48
06	Ambient Temperature	°C	35	36
07	Average Velocity of Flue Gases	m/sec.	10.5	11.2
08	IsoKinetic Flowrate for Sampling	LPM	20	22
09	PM Concentration in Inlet	mg/Nm ³	1125	625
10	PM Concentration in Outlet	mg/Nm ³	19	15
11	Efficiency	%	98.31	97.60

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

Calibration due on 12/09/2019

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Ref. No. : 64/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 1
01	Date of Sampling	---	12/03/2019
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	30
07	Average Velocity of Flue Gases	m/sec.	14.1
08	IsoKinetic Flowrate for Sampling	LPM	26
09	Inlet	mg/Nm ³	1132
10	Outlet	mg/Nm ³	15
11	Efficiency	%	98.67

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

Calibration due on 12/09/2019



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Ref. No. : 65/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 3	S - 6
01	Date of Sampling	---	06-03-2019	06-03-2019
02	Time of sampling	---	9.15	11.15
03	Stack Attached to	---	Sinter Furnace	Discharge End
04	Air Pollution Control Measures	---	ESP	ESP
05	Stack Height	Meter	50	32
06	Stack Diameter	Meter	2.0	1.30
07	Stack Temperature	°C	141	131
08	Ambient Temperature	°C	33	37
09	Average Velocity of Flue Gases	m/sec.	10.82	10.79
10	Isokinetic flow rate for P.M. Sampling	LPM	16	16
11	Gaseous Sampling Flow Rate	LPM	2.0	NA
12	Permissible limits for PM	mg/Nm ³	150	150
13	Measured Concentration of PM	mg/Nm ³	20	54
14	Permissible limits for SO ₂	ppm	100	NA
15	Measured Concentration of SO ₂	ppm	6.2
16	Permissible limits for NO _x	ppm	50	NA
17	Measured Concentration of NO _x	ppm	22.5

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. : 66/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 1	S - 2	S - 5	S - 7	S - 9
01	Date of Sampling	—	08-03-2019	08-03-2019	08-03-2019	07-03-2019	07-03-2019
02	Time of sampling	Hr	9.15	11.00	10.45	12.00	14.30
03	Stack Attached to	—	Secondary Mixer House	Fuel crushing de-duster system (Flux)	Primary Mixer De-duster system	Sinter Furnace	Discharging End of sinter de-dusting svstem
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	39	37	36	137	132
08	Ambient Temperature	°C	32	34	33	36	37
09	Average Velocity of Flue Gases	m/sec.	3.69	7.19	3.97	11.2	10.21
10	Isokinetic flow rate for P.M. Sampling	LPM	15	14	17	17	18
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	10	25	21	23	56
14	Permissible limits for SO ₂	ppm	NA	NA	NA	100	NA
15	Measured Concentration of SO ₂	ppm	—	—	—	5.2	—
16	Permissible limits for NO _x	ppm	NA	NA	NA	50	NA
17	Measured Concentration of NO _x	ppm	—	—	—	18.2	—

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

ND= Not Detectable

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Ref. No. : 67/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 1	S - 2	S - 3
01	Date of Sampling	—	22/03/2019	23/03/2019	23/03/2019
02	Time of sampling	Hr.	11.00	10.45	11.45
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	37	157	155
08	Ambient Temperature	°C	35	34	36
09	Average Velocity of Flue Gases	m/sec.	9.8	8.8	8.6
10	Isokinetic flow rate for P.M. Sampling	LPM	19	26	25
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	9.0	2.0	4.0
14	Permissible limits for SO ₂	ppm	100	100	100
15	Measured Concentration of SO ₂	ppm	ND	7.3	7.7
16	Permissible limits for NO _x	ppm	50	50	50
17	Measured Concentration of NO _x	ppm	ND	14.3	13.4
18	Permissible limits for CO vol/vol	%	N.A.	1 % Max.	1 % Max.
19	Measured Concentration of CO vol/vol #	%	N.A.	0.3	0.4

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

Parameters are not covered in NABL Scope

N.D=Not Detectable

N.A.=Not Applicable

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Ref. No. : 68/03/18-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 1	S - 4	S - 5
01	Date of Sampling	---	09/03/2019	09/03/2019	22/03/2019
02	Time of sampling	Hr.	10.15	11.15	10.00
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	37	35	37
08	Ambient Temperature	°C	34	33	32
09	Average Velocity of Flue Gases	m/sec.	11.8	7.3	6.2
10	Isokinetic flow rate for P.M. Sampling	LPM	23	26	22
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	15	16	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. : 69/03/2018-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 8	S - 9
01	Date of Sampling	—	05/03/2019	05/03/2019
02	Time of sampling	Hr.	9.15	10.15
03	Stack Attached to	—	Common Stack Mg Converter I & II	Zn Coating - I
04	Air Pollution Control Measures	—	Bag Filter	Cyclone Seprater & Bag Filter
05	Stack Height	Meter	30	30
06	Stack Diameter	Meter	0.5	0.6
07	Stack Temperature	°C	55	42
08	Ambient Temperature	°C	33	35
09	Average Velocity of Flue Gases	m/sec.	10.79	8.19
10	Isokinetic flow rate for P.M. Sampling	LPM	20	16
11	Gaseous Sampling Flow Rate	LPM	2.0	—
12	Permissible limits for PM	mg/Nm ³	150	20 (Zn)
13	Measured Concentration of PM	mg/Nm ³	24	16
14	Permissible limits for SO ₂	mg/Nm ³	40	NA
15	Measured Concentration of SO ₂	mg/Nm ³	ND	—
16	Permissible limits for NO _x	mg/Nm ³	25	NA
17	Measured Concentration of NO _x	mg/Nm ³	5.8	—

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 : 12/09/2019



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Ref. No. : 70/03/2018-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 7
01	Date of Sampling	---	23/03/2019
02	Time of sampling	Hr.	15.30
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	29
09	Average Velocity of Flue Gases	m/sec.	9.58
10	Isokinetic flow rate for P.M. Sampling	LPM	16
11	Gaseous Sampling Flow Rate	LPM	2.0
12	Permissible limits for PM	mg/Nm³	150
13	Measured Concentration of PM	mg/Nm ³	25
14	Permissible limits for SO₂	mg/Nm³	40
15	Measured Concentration of SO ₂	mg/Nm ³	2.4
16	Permissible limits for NO_x	mg/Nm³	25
17	Measured Concentration of NO _x	mg/Nm ³	15.5

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. : 71/03/2018-19

Date : 31/03/2019

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

NABL Certificate No. : TC 5948

Sr. No.	Particulars	Unit	S - 1	S - 5
01	Date of Sampling	---	04/03/2019	04/03/2019
02	Time of sampling	Hr.	9.15	10.15
03	Stack Attached to	---	Magnesium Treatment	Zinc Coating
04	Air Pollution Control Measures	---	Bag Filter	Bag Filler
05	Stack Height	Meter	30	30
06	Stack Diameter	Meter	1.00	1.00
07	Stack Temperature	°C	46	40
08	Ambient Temperature	°C	33	36
09	Average Velocity of Flue Gases	m/sec	7.94	6.62
10	Isokinetic flow rate for PM Sampling	LPM	14	13
11	Gaseous Sampling Flow Rate	LPM	---	---
12	Permissible limits for PM	mg/Nm ³	50	50
13	Measured Concentration of PM	mg/Nm ³	19	15
14	Permissible limits for SO ₂	PPM	NA	NA
15	Measured Concentration of SO ₂	PPM	---	---
16	Permissible limits for NO _x	PPM	NA	NA
17	Measured Concentration of NO _x	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

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Ref. No. : 76/03/2018-19

Date : 31/03/2019

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 March, 2019

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
1	Inside Control Room	44.2	61.4	56.8
2	Near Flux Crushing Building	54.4	68.3	63.2
3	Sinter Machine area	48.8	65.3	57.2

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. : 77/03/2018-19

Date : 31/03/2019

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 & 5th March, 2019

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside Control Room of Annealing Furnace of DISP	43.3	55.1	51.8
02	Inside Control Room – Mill Area of Spiral Plant	52.3	65.5	61.7
03	Nr. ID / OD Area of JCO Plant	44.3	58.5	53.5
01.	Nr. CCM area of DISP Plant	51.8	65.5	64.3
06	Nr. CCM area of SDP-2	57.2	77.5	68.2
07	Inside Control Room of Annealing Furnace of SDP-2	72.5	83.3	76.4
08	Zinc Coating of FL-7 control room	62.7	74.5	71.2
09	Control room of Shot Blasting of Coating Plant- 1	69.2	80.2	74.2
10	Mould Shop control room	63.7	77.3	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 : 12/09/2019

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Ref. No. : 78/03/2018-19

Date : 31/03/2019

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 : 09th March, 2019

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside BF Control Room	44.2	66.3	58.2
02.	Stock House	54.4	70.3	57.3
03.	Inside control room of blower house	47.5	60.5	55.2
03.	Cast House	48.3	64.4	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 : 12/09/2019

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Ref. No. : 79/03/2018-19

Date : 31/03/2019

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 March, 2019

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside Control Room	41.5	64.4	56.7
02.	Sinter Machine area	44.2	67.3	57.2
03.	Near Proportioning Building	52.5	72.3	63.4
04.	Near Crusher House	57.5	72.5	67.3

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 : 12/09/2019



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Ref. No. : 78/03/2018-19

Date : 31/03/2019

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 : 28/03/2019

Test Method : As per IS Standards - 3025

NABL Certificate No. : TC 5948

Sr. No.	Parameters	Unit	GPCB limits for Treated Effluent	Raw Sewage	Treated Effluent
01.	pH	pH Unit	6.5 to 9.0	8.11	7.00
02.	BOD (3 Days at 27°C)	mg/l	30	139	11
03.	Total Dissolve Solid	mg/l	...	2021	1425
04.	COD	mg/l	...	205	13
05.	Total Suspended Solid	mg/l	100	141	5
06.	Oil & Grease	mg/l	...	ND	ND
07.	Fecal Coliform #	MPN/100ml	1000	NA	Absent
08.	Residual Chlorine #	mg/l	Min. 0.5	NA	0.51

Parameters are not covered in NABL Scope

Royal Environment Auditing & Consultancy Service



Analyst



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Ph. +91 281 2360695 Email : royalservice@live.com admin@royalconsultancy.com

Ref. No. : 79/03/2018-19

Date : 31/03/2019

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 : 28/03/2019

NABL Certificate No. : TC 5948

Sr. No.	Parameters	Unit	Permissible limit	Results
01.	pH	...	6.5 to 8.5	7.11
02.	Colour	pt.co.units	100	16
03.	Temperature	°C	40	32
04.	Total suspended solids	mg/l	100	15
05.	Total dissolve solids	mg/l	2100	1325
06.	Phenolic compounds	mg/l	1	ND
07.	Oil & Grease	mg/l	10	ND
08.	Chlorides	mg/l	600	315
09.	Sulphate	mg/l	1000	265
10.	Ammonical nitrogen (as NH ₃ -N)	mg/l	50	6.5
11.	BOD (3 Days at 27°C)	mg/l	30	10.2
12.	COD	mg/l	100	45.3

Royal Environment Auditing & Consultancy Service



Vijay
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Ref. No. : 80/03/2018-19

Date : 31/03/2019

WATER & WASTE WATER QUALITY ANALYSIS REPORT

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

Source of Sample : SLAG GRANULATION POND (BLAST FURNACE)

Date of Sampling : 28/03/2019

NABL Certificate No. : TC 5948

Sr. No.	Parameters	Unit	Permissible limit	Results
01.	pH	...	6.5 to 8.5	8.11
02.	Colour	pt.co.units	100	45
03.	Tempreture	°C	40	35
04.	Total suspended solids	mg/l	100	8
05.	Total dissolve solids	mg/l	2100	1625
06.	Phenolic compounds	mg/l	1	ND
07.	Oil & Grease	mg/l	10	ND
08	Chlorides	mg/l	600	325
09	Sulphate	mg/l	1000	650
10	Ammonical nitrogen (as NH ₃ -N)	mg/l	50	1.55
11	BOD (3 Days at 27°C)	mg/l	30	17.3
12	COD	mg/l	100	65.4

Royal Environment Auditing & Consultancy Service



Vijay
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 March, 2019

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	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	1.1-1.8	2.45	10	Gravimetric	4	----	Vijay	Mr. Vijay Makvana

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

Calibration Due on. : 12/03/2020



For. Royal Environment Auditing & Consultancy Service

Vijay
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 March, 2019

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	Sinter Plant-1 (Sinter Machine area)	Total Dust	Personal Respirable Dust sampler VPDS 203	02	1.0-2.0	1.5	10	Gravimetric	7	---	<i>Vijay</i>	Mr. Vijay Makvana

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

Calibration Due on. : 12/03/2020



For. Royal Environment Auditing & Consultancy Service

Vijay
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 : 9th March, 2019

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	3-8	5.5 (ppm)	50 (ppm)	Gravimetric	3	---	Vijay	Mr. Vijay Makvana
		Total Dust			1.2-2.2	1.7	10					

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

Calibration Due on. : 12/03/2020



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 & 5th March, 2019

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	DISP Plant (Annealing Furnace area)	Total Dust	Personal Respirable Dust sampler VPDS 203	02	1.1-3.3	2.2	10	Gravimetric	7	----	Vishay	Mr. Hitesh Umletiya
2	SDP-2 (Annealing Furnace area)	Total Dust		02	1.2-3.2	2.2	10	Gravimetric	6	----		

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

Calibration Due on. : 12/03/2020



For. Royal Environment Auditing & Consultancy Service

(Signature)
Authorized Sign