



Royal

Environment Auditing & Consultancy Service

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Ref No : 291/09/2017-18

Date 03/10/2017

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - SEPTEMBER : 2017

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)							
			01		02		03		04	
01.	No. of Week	---								
02	Date & Time Starting of Monitoring	---	07/09/17 08 45	09/09/17 09 00	11/09/17 09 15	15/09/17 09 00	18/09/17 08 45	23/09/17 09 15	25/09/17 09 00	29/09/17 09 00
03	Date & Time Ending of Monitoring	---	08/09/17 08 45	10/09/17 09 00	12/09/17 09 15	16/09/17 09 00	19/09/17 08 45	24/09/17 09 15	26/09/17 09 00	30/09/17 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	WSW	W	W	WSW	W	WNW	W
06	Average Wind Speed	Km/Hr	6.4	8.2	4.1	6.9	7.4	5.8	6.2	6.2
07	Average flow rate for Dust Monitoring PM10	m3/min	1.11	1.13	1.12	1.13	1.12	1.11	1.13	1.12
08	Average flow rate for Dust Monitoring PM2.5	m3/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/m3	100	100	100	100	100	100	100	100
11	Measured Concentration of PM10	µg/m3	63	56	59	61	54	56	62	53
12	Permissible limits for PM2.5*	µg/m3	60	60	60	60	60	60	60	60
13	Measured Concentration of PM2.5	µg/m3	38	31	34	36	30	29	32	35
14	Permissible limits for SO ₂ *	µg/m3	80	80	80	80	80	80	80	80
15	Measured Concentration of SO ₂	µg/m3	7.9	7.5	8.2	7.4	8.6	8.3	8.1	8.7
16	Permissible limits for NO ₂ *	µg/m3	80	80	80	80	80	80	80	80
17	Measured Concentration of NO ₂	µg/m3	16.3	15.9	18.1	14.7	16.5	16.8	14.9	15.4
18	Permissible limit for CO **	µg/m3	2000	2000	2000	2000	2000	2000	2000	2000
19	Measured Concentration of CO	µg/m3	B D L	B D L	B D L	B D L	B D L	B D L	B D L	B D L

Instrument used (1) 4 Nos. RDS (APM - 217 BL) (2) 3 Nos. of Gaseous Sampler (AAS 108) (3) 3 Nos. PM 2.5 Sampler (AAS 127)

All Calibration due on 05/05/2018

*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 (NNW)							
			01		02		03		04	
01.	No. of Week	---								
02	Date & Time Starting of Monitoring	---	07/09/17 09 00	09/09/17 09 15	11/09/17 09 00	15/09/17 09 15	18/09/17 09 00	23/09/17 09 00	25/09/17 09 15	29/09/17 09 15
03	Date & Time Ending of Monitoring	---	08/09/17 09 00	10/09/17 09 15	12/09/17 09 00	16/09/17 09 15	19/09/17 09 00	24/09/17 09 00	26/09/17 09 15	30/09/17 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	WSW	W	W	WSW	W	WNW	W
06	Average Wind Speed	Km/Hr	6.4	8.2	4.1	6.9	7.4	5.8	6.2	6.2
07	Average flow rate for Dust Monitoring PM10	m3/min	1.12	1.13	1.11	1.12	1.10	1.13	1.12	1.15
08	Average flow rate for Dust Monitoring PM2.5	m3/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/m3	100	100	100	100	100	100	100	100
11	Measured Concentration of PM10	µg/m3	68	59	67	70	66	59	61	65
12	Permissible limits for PM2.5*	µg/m3	60	60	60	60	60	60	60	60
13	Measured Concentration of PM2.5	µg/m3	38	31	28	40	34	31	28	34
14	Permissible limits for SO ₂ *	µg/m3	80	80	80	80	80	80	80	80
15	Measured Concentration of SO ₂	µg/m3	6.8	8.1	7.6	7.2	8.1	7.9	8.3	7.3
16	Permissible limits for NO ₂ *	µg/m3	80	80	80	80	80	80	80	80
17	Measured Concentration of NO ₂	µg/m3	17.2	16.3	15.9	16.8	17.4	18.2	17.2	17.8
18	Permissible limit for CO **	µg/m3	2000	2000	2000	2000	2000	2000	2000	2000
19	Measured Concentration of CO	µg/m3	B D L	B D L	B D L	B D L	B D L	B D L	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 05/05/2018

*Permissible Limits are as per NAAQ Standard 15th November 2009

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Date:03/10/2017

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - SEPTEMBER : 2017

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)							
			01		02		03		04	
01	No. of Week	—								
02	Date & Time Starting of Monitoring	—	07/09/17 09 15	09/09/17 09 15	11/09/17 09 30	15/09/17 09 30	18/09/17 09 45	23/09/17 09 30	25/09/17 09 30	29/09/17 09 45
03	Date & Time Ending of Monitoring	—	08/09/17 09 15	10/09/17 09 15	12/09/17 09 30	16/09/17 09 30	19/09/17 09 45	24/09/17 09 30	26/09/17 09 30	30/09/17 09 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)	—	W	WSW	W	W	WSW	W	WNW	W
06	Average Wind Speed	Km/Hr	6.4	8.2	4.1	6.9	7.4	5.8	6.2	6.2
07	Average flow rate for Dust Monitoring PM10	m3/min	1.11	1.13	1.13	1.12	1.11	1.11	1.15	1.13
08	Average flow rate for Dust Monitoring PM2.5	m3/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/m3	100	100	100	100	100	100	100	100
11	Measured Concentration of PM10	µg/m3	59	56	56	61	54	54	58	62
12	Permissible limits for PM2.5*	µg/m3	60	60	60	60	60	60	60	60
13	Measured Concentration of PM2.5	µg/m3	28	27	26	27	31	31	33	29
14	Permissible limits for SO ₂ *	µg/m3	80	80	80	80	80	80	80	80
15	Measured Concentration of SO ₂	µg/m3	8.7	8.3	7.9	7.7	6.9	6.9	8.3	8.2
16	Permissible limits for NO ₂ *	µg/m3	80	80	80	80	80	80	80	80
17	Measured Concentration of NO ₂	µg/m3	17.6	18.1	16.9	17.7	17.2	17.2	16.1	17.8
18	Permissible limit for CO **	µg/m3	2000	2000	2000	2000	2000	2000	2000	2000
19	Measured Concentration of CO	µg/m3	B D L	B D L	B D L	B D L	B D L	B D L	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 05/05/2018

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

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Ref No 294/09/2017-18

Date 03/10/2017

NATIONAL AMBIENT AIR QUALITY MONITORING REPORT FOR THE MONTH - SEPTEMBER : 2017

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)							
			01		02		03		04	
01	No. of Week	—								
02	Date & Time Starting of Monitoring	—	07/09/17 09 45	09/09/17 09 15	11/09/17 09 45	15/09/17 08 45	18/09/17 09 30	23/09/17 09 45	25/09/17 09 45	29/09/17 09 30
03	Date & Time Ending of Monitoring	—	08/09/17 09 45	10/09/17 09 15	12/08/17 09 45	16/09/17 08 45	19/09/17 09 30	24/09/17 09 45	26/09/17 09 45	30/09/17 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)	—	W	WSW	W	W	WSW	W	WNW	W
06	Average Wind Speed	Km/Hr	6.4	8.2	4.1	6.9	7.4	5.8	6.2	6.2
07	Average flow rate for Dust Monitoring PM10	m3/min	1.12	1.11	1.13	1.14	1.08	1.13	1.15	1.16
08	Average flow rate for Dust Monitoring PM2.5	m3/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/m3	100	100	100	100	100	100	100	100
11	Measured Concentration of PM10	µg/m3	53	56	58	51	59	61	52	55
12	Permissible limits for PM2.5*	µg/m3	60	60	60	60	60	60	60	60
13	Measured Concentration of PM2.5	µg/m3	31	25	32	27	26	33	36	35
14	Permissible limits for SO ₂ *	µg/m3	80	80	80	80	80	80	80	80
15	Measured Concentration of SO ₂	µg/m3	7.9	9.2	8.3	7.6	8.4	8.8	7.3	7.9
16	Permissible limits for NO ₂ *	µg/m3	80	80	80	80	80	80	80	80
17	Measured Concentration of NO ₂	µg/m3	17.2	16.8	16.1	15.3	15.8	16.3	15.2	16.7
18	Permissible limit for CO **	µg/m3	2000	2000	2000	2000	2000	2000	2000	2000
19	Measured Concentration of CO	µg/m3	B D L	B D L	B D L	B D L	B D L	B D L	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 05/05/2018

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

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Date: 03/10/2017

Ref. No :295/09/2017-18

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	BF-2 RMH Stock House	Sinter RMH Yard
02.	Date of sampling	---	12/09/2017	12/09/2017	13/09/2017
03.	Time of sampling	---	10 15	10 00	9 15
04.	Duration of Sampling	Hr	8 00	8 00	8.00
05.	Dominant Wind Direction (From)	---	W	WSW	W
06.	Average Wind Speed	Km/Hr	7.2	6.8	4.3
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	1509	1355	1638
11.	Permissible limits for SO ₂ *	µg/m ³	150	150	150
12.	Measured Concentration of SO ₂	µg/m ³	13.1	12.8	13.8
13.	Permissible limits for NO ₂ *	µg/m ³	120	120	120
14.	Measured Concentration of NO ₂	µg/m ³	19.3	22.6	21.1
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 05/05/2018

BDL= Below Detectable Limit
ND= Not Detectable

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Ref No. :296/09/2017-18

Date: 03/10/2017

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 CAST HOUSE
02.	Date of sampling	---	14/09/2017	14/09/2017	13/09/2017
03.	Time of sampling	---	9 30	9 00	9 30
04.	Duration of Sampling	Hr	8 00	8 00	8 00
05.	Dominant Wind Direction (From)	---	WNW	W	W
06.	Average Wind Speed	Km/Hr	4.3	7.1	6.3
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	1257	1130	1405
11.	Permissible limits for SO ₂ *	µg/m ³	150	150	150
12.	Measured Concentration of SO ₂	µg/m ³	11.6	12.8	15.4
13.	Permissible limits for NO ₂ *	µg/m ³	120	120	120
14.	Measured Concentration of NO ₂	µg/m ³	21.3	22.4	25.5
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 : 05/05/2018

BDL= Below Detectable Limit
ND= Not Detectable

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Ref. No. : 297/09/17-18

Date : 03/10/2017

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	---	07-09-2017
02	Attached to	---	Sinter Furnace
03	Stack Height	Meter	50
04	Stack Diameter	Meter	2.0
05	Stack Temperature	°C	137
06	Ambient Temperature	°C	30
07	Average Velocity of Flue Gases	m/sec.	23
08	IsoKinetic Flowrate for Sampling	LPM	8
09	Inlet	mg/Nm ³	1356
10	Outlet	mg/Nm ³	26
11	Efficiency	%	98.08

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

Calibration due on 16/09/2018

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Date: 03/10/2017

Ref. No. : 298/09/17-18

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	---	09/09/2017
02	Attached to	---	De-dustingSystem
03	Stack Height	Meter	35
04	Stack Duct Diameter	Meter	1.4
05	Stack Temperature	°C	124
06	Ambient Temperature	°C	30
07	Average Velocity of Flue Gases	m/sec	18.1
08	IsoKinetic Flowrate for Sampling	LPM	26
09	Inlet	mg/Nm ³	1102
10	Outlet	mg/Nm ³	11
11	Efficiency	%	99.00

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

Calibration due on 16/09/2018

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Ref. No. : 299/09/17-18

Date: 03/10/2017

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	---	26-09-2017	10/09/2017
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	124	137
06	Ambient Temperature	°C	30	30
07	Average Velocity of Flue Gases	m/sec	18.11	17.0
08	IsoKinetic Flowrate for Sampling	LPM	26	25
09	Inlet	mg/Nm ³	784	1782
10	Outlet	mg/Nm ³	41	36
11	Efficiency	%	97.98	96.56

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

Calibration due on 16/09/2018

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Ref. No. : 300/09/17-18

Date:03/10/2017

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
01	Date of Sampling	---	21/09/2017
02	Attached to	---	Common stack Mg Converter - I & II
03	Stack Height	Meter	30
04	Stack Diameter	Meter	0.5
05	Stack Temperature	°C	65
06	Ambient Temperature	°C	29
07	Average Velocity of Flue Gases	m/sec.	8.55
08	IsoKinetic Flowrate for Sampling	LPM	15
09	Inlet	mg/Nm ³	708
10	Outlet	mg/Nm ³	71
11	Efficiency	%	89.97

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

Calibration due on 16/09/2018

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Date:03/09/2017

Ref. No. : 301/09/17-18

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 - 9	S - 15	S - 20
01	Date of Sampling	—	13/09/2017	13/09/2019	15/09/2017
02	Attached to	—	Zinc Coating - I	Zinc Coating - II	Zinc Coating - III
03	Stack Height	Meter	30	30	30
04	Stack Duct Diameter	Meter	0.6	0.6	0.6
05	Stack Temperature	°C	36	35	37
06	Ambient Temperature	°C	28	28	32
07	Average Velocity of Flue Gases	m/sec	10	9.7	12
08	IsoKinetic Flowrate for Sampling	LPM	18.3	18	24
09	Inlet	mg/Nm ³	264	259	251
10	Outlet	mg/Nm ³	10	8	7
11	Efficiency	%	96.21	96.91	97.21

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

Calibration due on 16/09/2018

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Ref. No. : 302/09/17-18

Date: 03/10/2017

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	---	14/09/2017	14/09/2017	15/09/2017
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	55	38	369
06	Ambient Temperature	°C	29	28	31
07	Average Velocity of Flue Gases	m/sec	8 5	5 6	9 6
08	IsoKinetic Flowrate for Sampling	LPM	15	23	18
09	Inlet	mg/Nm ³	1486	286	316
10	Outlet	mg/Nm ³	28	22	18
11	Efficiency	%	98.12	92 31	94 30

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

Calibration due on 16/09/2018

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Date: 03/10/2017

Ref No : 303/09/17-18

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	---	08/09/2017
02	Attached to	---	Dedusting System
03	Stack Height	Meter	40
04	Stack Duct Diameter	Meter	1.5
05	Stack Temperature	°C	36
06	Ambient Temperature	°C	28
07	Average Velocity of Flue Gases	m/sec	13.21
08	IsoKinetic Flowrate for Sampling	LPM	24
09	Inlet	mg/Nm ³	1492
10	Outlet	mg/Nm ³	12
11	Efficiency	%	99.20

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

Calibration due on 16/09/2018

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Date: 03/10/2017

Ref No : 304/09/17-18

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 - 5	S - 6
01	Date of Sampling	---	07-09-2017	07-09-2017	07-09-2017
02	Time of sampling	---	11 15	12 30	4 00
03	Stack Attached to	---	Sinter Furnace	Secondary Mixture House	Discharge End
04	Air Pollution Control Measures	---	ESP	---	ESP
05	Stack Height	Meter	50	36.08	32
06	Stack Diameter	Meter	2.0	1.25	1.30
07	Stack Temperature	°C	131	31	123
08	Ambient Temperature	°C	30	30	30
09	Average Velocity of Flue Gases	m/sec	10.3	2.6	8.3
10	Isokinetic flow rate for P.M. Sampling	LPM	15	11	27
11	Gaseous Sampling Flow Rate	LPM	2.0	NA	NA
12	Permissible limits for PM	mg/Nm ³	150	150	150
13	Measured Concentration of PM	mg/Nm ³	26	11	84
14	Permissible limits for SO ₂	ppm	100	NA	NA
15	Measured Concentration of SO ₂	ppm	ND
16	Permissible limits for NO _x	ppm	50	NA	NA
17	Measured Concentration of NO _x	ppm	20.4	---	---

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: 16/09/2018

NA= Not Applicable

ND=Not Detectable

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Ref No : 305/09/17-18

Date: 05/10/2017

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 - 6	S - 7	S - 9
01	Date of Sampling	---	10-09-2017	10/09/2017	10/09/2017	10/09/2017
02	Time of sampling	Hr	12 15	9 45	11 15	15 30
03	Stack Attached to	---	Fuel crushing de-duster system (Flux)	Secondary Mixer De-duster system	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	---	2	1 3
07	Stack Temperature	°C	37	36	134	121
08	Ambient Temperature	°C	29	29	30	29
09	Average Velocity of Flue Gases	m/sec	6 50	2 50	12 0	11 5
10	Isokinetic flow rate for P M. Sampling	LPM	27 00	10	17	17
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	25	8	36	41
14	Permissible limits for SO ₂	ppm	NA	NA	100	NA
15	Measured Concentration of SO ₂	ppm	---	---	2 8	---
16	Permissible limits for NO _x	ppm	NA	NA	50	NA
17	Measured Concentration of NO _x	ppm	---	---	18 9	---

Note: Minimum Detectable Limit of SO₂ & NO_x is 0 1 and 0 01 ppm respectively

Instrument Used Stack Monitoring Kit - Ecolech make - ESS 100

Calibration due on 15/09/2018

NA= Not Applicable

ND= Not Detectable

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Date: 03/10/2017

Ref No : 306/09/17-18

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	---	09/09/2017	09/09/2018	09/09/2019
02	Time of sampling	Hr.	12.20	11.15	10.00
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	154	158
08	Ambient Temperature	°C	30	27	27
09	Average Velocity of Flue Gases	m/sec	9.0	5.4	5.2
10	Isokinetic flow rate for P.M. Sampling	LPM	17	16	16
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	11	12	10
14	Permissible limits for SO ₂	ppm	100	250	250
15	Measured Concentration of SO ₂	ppm	ND	8.4	9.1
16	Permissible limits for NO _x	ppm	50	150	150
17	Measured Concentration of NO _x	ppm	ND	11.6	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	0.5

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: 16/09/2018





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Date: 03/10/2017

Ref. No. : 307/09/17-18

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
01	Date of Sampling	---	08/09/2017	08/09/2017
02	Time of sampling	Hr.	10:15	12:15
03	Stack Attached to	---	Dedusting System	Coke fine building dust collecting system
04	Air Pollution Control Measures	---	Bag Filter	Bag Filter
05	Stack Height	Meter	40.0	30.0
06	Stack Diameter	Meter	1.5	0.45
07	Stack Temperature	°C	34	32
08	Ambient Temperature	°C	28	28
09	Average Velocity of Flue Gases	m/sec.	9.7	4.2
10	Isokinetic flow rate for P.M. Sampling	LPM	18	18
11	Gaseous Sampling Flow Rate	LPM	NA	NA
12	Permissible limits for PM	mg/Nm ³	150	150
13	Measured Concentration of PM	mg/Nm ³	12	14
14	Permissible limits for SO ₂	mg/Nm ³	NA	NA
15	Measured Concentration of SO ₂	mg/Nm ³	---	---
16	Permissible limits for NO _x	mg/Nm ³	NA	NA
17	Measured Concentration of NO _x	mg/Nm ³	---	---

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: 16/09/2018



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Date 03/10/2017

Ref No. : 308/09/2017-18

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
01	Date of Sampling	---	21/09/2017	13/09/2017	13/09/2017	15/09/2017
02	Time of sampling	Hr.	11 30	10 30	15 00	11 15
03	Stack Attached to	---	Common stack Mg Converter- I&II	Zn Coating - I	Zn Coating - II	Zn Coating - III
04	Air Pollution Control Measures	---	Bag Filter	Cyclone Separator & Bag Filter	Cyclone Separator & Bag Filter	Cyclone Separator & Bag Filter
05	Stack Height	Meter	30	30	30	30
06	Stack Diameter	Meter	0.5	0.6	0.6	0.6
07	Stack Temperature	°C	54	35	34	36
08	Ambient Temperature	°C	29	28	28	32
09	Average Velocity of Flue Gases	m/sec.	10.6	5.7	6.2	9.0
10	Isokinetic flow rate for P.M. Sampling	LPM	19	23	26	17
11	Gaseous Sampling Flow Rate	LPM	2.0	---	---	---
12	Permissible limits for PM	mg/Nm ³	150	20 (Zn)	20 (Zn)	20 (Zn)
13	Measured Concentration of PM	mg/Nm ³	71	10 (Zn)	8 (Zn)	7 (Zn)
14	Permissible limits for SO ₂	mg/Nm ³	40	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
17	Measured Concentration of NO _x	mg/Nm ³	4.8	---	---	---

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 : 16/09/2018

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Ref No. 309/09/2017-18

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
01	Date of Sampling		11/09/2017	11/09/2018	11/09/2019	21/09/2017	12/09/2017
02	Time of sampling	Hr	10 15	12 15	14 45	15 10	11 10
03	Stack Attached to		Core Shop-I	Core Shop-II	Core Shop-III	Core Shop-IV	Core Cleaning & Dusting-I
04	Air Pollution Control Measures						Bag Filter
05	Stack Height	Meter	30	30	30	30	30
06	Stack Diameter	MM	0.584	0.58	0.584	0.584	0.6
07	Stack Temperature		33	34	33	32	35
08	Ambient Temperature	°C	29	29	29	30	31
09	Average Velocity of Flue Gases	m/sec	1.6	1.9	2.6	2.6	7.4
10	Isokinetic flow rate for P.M. Sampling	LPM	7	8	12	11	14
11	Gaseous Sampling Flow Rate	LPM	2.0	2.0	2.0	2.0	2.0
12	Permissible limits for PM	mg/Nm ³	150	150	150	150	150
13	Measured Concentration of PM	mg/Nm ³	10	9	11	9	51
14	Permissible limits for SO ₂	mg/Nm ³	40	40	40	40	40
15	Measured Concentration of SO ₂	mg/Nm ³	2.1	2.4	1.6	2.3	ND
16	Permissible limits for Nox	mg/Nm ³	25	25	25	25	25
17	Measured Concentration of Nox	mg/Nm ³	6.3	3.8	2.7	3.1	3.6

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: 16/09/2018

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Date: 03/10/2017

Ref No : 310/09/2017-18

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	--	12/09/2017	22/09/2017
02	Time of sampling	Hr	15 00	11 00
03	Stack Attached to	--	Sand Reclamation	Annealing Furnace - I
04	Air Pollution Control Measures	--	Bag Filler	--
05	Slack Height	Meter	30	32
06	Stack Diameter	Meter	0.9	1.375
07	Stack Temperature	°C	91	154
08	Ambient Temperature	°C	33	25
09	Average Velocity of Flue Gases	m/sec.	6.7	4.2
10	Isokinetic flow rate for P.M. Sampling	LPM	24	14
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	54	15
14	Permissible limits for SO ₂	mg/Nm ³	40	100 (PPM)
15	Measured Concentration of SO ₂	mg/Nm ³	2.3	1.6
16	Permissible limits for NO _x	mg/Nm ³	25	50 (PPM)
17	Measured Concentration of NO _x	mg/Nm ³	14.2	8.5 (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 : 16/09/2018

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Ref No 311/09/2017-18

Date 03/10/2017

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 - 5	S - 6	S - 8
01	Date of Sampling	---	14/09/2017	28/09/2017	14/09/2027	14/09/2027	15/09/2017
02	Time of sampling	Hr	10:15	11:15	11:30	15:20	17:10
03	Stack Attached to	---	Magnesium Treatment	Socket Cleaning	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	30	30	30
06	Stack Diameter	Meter	1.00	0.50	1.00	1.00	1.20
07	Stack Temperature	°C	48	51	34	33	35
08	Ambient Temperature	°C	27	30	28	28	31
09	Average Velocity of Flue Gases	m/sec	6.3	5.4	4.0	2.70	4.5
10	Isokinetic flow rate for PM Sampling	LPM	25	21	17	13.00	19
11	Gaseous Sampling Flow Rate	LPM	---	---	---	---	---
12	Permissible limits for PM	mg/Nm ³	50	50	50	50	50
13	Measured Concentration of PM	mg/Nm ³	28	14	22(Zn)	34.00	18 (Zn)
14	Permissible limits for SO ₂	PPM	NA	NA	NA	NA	NA
15	Measured Concentration of SO ₂	PPM	---	---	---	---	---
16	Permissible limits for NO _x	PPM	NA	NA	NA	NA	NA
17	Measured Concentration of NO _x	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: 16/09/2018

ND= Not Detectable
N/A= Not Applicable

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Ref. No. : 317/09/2017-18

Date: 03/10/2017

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 : 7th september, 2017

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
1	Inside Control Room	39.2	51.6	44.6
2	Inside Mechanical Room	45.3	57.2	50.7
3	Inside Electrical Room	43.5	51.4	48.3
4	Inside Plant Office	43.1	57.6	52.8

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 : 16/09/2018

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Ref. No. : 318/09/2017-18

Date: 03/09/2017

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 September, 2017

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Nr. Stock House	61.8	78.5	70.2
02.	Inside Control Room	47.3	55.9	53.1
03.	Inside Control room of Cast House	43.9	56.5	51.2
04.	Inside Laboratory	41.8	53.5	49.2
05.	Inside Control Room of Blower House	53.9	60.6	55.4
06.	Inside Control Room of CPP	49.3	62.08	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 : 16/09/2018

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Ref. No. : 319/09/2017-18

Date: 03/10/2017

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 : 15th September, 2017

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside Control Room of Annealing Furnace of DISP / SDP	45.7	56.8	50.7
02	Inside Control Room – Mill Area of Spiral Plant	55.2	63.4	55.8
03	Nr. Pipe Cutting Area of Spiral Plant	60.1	77.3	66.2
04	Inside JCO Plant	64.2	75.8	68.6
05	Inside DISP / SDP Plant	62.7	71.9	65.4
06	Nr. CCM SDP-2	59.3	71.6	66.5
07	Inside Control Room of Annealing Furnace of SDP-2	44.3	56.2	53.8
08	Nr. Zinc Coating SDP-2	63.8	69.2	64.5
09	Near Mould Shop	63.1	78.5	73.5

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 : 16/09/2018

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Date: 03/10/2017

Ref. No : 320/09/2017-18

AMBIENT NOISE LEVEL MEASUREMENT

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal : Mundra, Dist. Kutch

Date of sampling : 15th September, 2017

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	45.3	62.8	55.3	44.1	56.2	52.8
02.	Old Colony	44.3	58.1	54.3	42.9	56.3	49.3
03.	Nr. LPG Yard	46.8	56.7	53.2	43.4	56.3	54.8
04.	New Colony (School)	42.8	57.1	53.8	44.3	56.8	52.5
05.	Nr. SDP-2	52.4	63.8	58.2	52.1	59.3	53.8
06.	Nr. Coating Plant	55.2	64.5	61.7	51.6	58.3	53.2
07.	Nr. Gate No. 2	53.4	59.3	55.4	46.1	58.7	53.7
08.	Nr. Sinter Plant-1	55.3	72.4	67.8	53.2	63.8	56.1
09.	Nr. Sinter Plant-2	55.8	71.2	65.2	52.5	67.4	61.9
10.	Nr. Blast Furnace-1	56.7	63.4	59.2	53.8	64.3	60.6
11.	Nr. Blast Furnace-2	55.3	62.8	57.9	47.6	62.5	57.3
12.	Nr. Main Gate (Security Office)	51.7	59.3	54.5	45.1	59.2	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 : 16/09/2018

Royal Environment Auditing & Consultancy Service



Kite
Analyst



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Date: .03/10/2017

Ref. No. : 321/09/2017-18

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 : 8th September, 2017

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01	Inside Control Room	52.8	59.3	56.4
02	Nr. Stock House	51.4	63.8	57.1
03	C/R Blower House	55.8	64.7	59.1

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 : 16/09/2018

Royal Environment Auditing & Consultancy Service

M. L. Test
Analyst





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Date: 03/10/2017

Ref No. : 322/09/2017-18

WORK ZONE NOISE LEVEL MEASUREMENT

SINTER PLANT - 2 (29017)

Name of company : JINDAL SAW LIMITED,

Village: Samaghogha,

Tal. : Mundra, Dist. Kutch

Date of sampling : 10th September, 2017

Sr. No.	Location of Sampling	Value in dB(A)		
		Min.	Max.	Leq
01.	Inside Control Room	47.2	56.8	52.4
02.	Inside Operator Room	56.8	64.4	61.5
03.	Near Proportioning Bulding	53.8	64.9	58.1
04.	Near Crusher House	61.1	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 : 16/09/2018

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Ref. No. : 323/09/2017-18

Date: 03/10/2017

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 : 29/09/2017

Test Method : As per IS Standards - 3025

Sr. No.	Parameters	Unit	GPCB limits for Treated Effluent	Raw Sewage	Treated Effluent
01.	pH	pH Unit	---	7.50	7.10
02.	BOD (3 Days at 27°C)	mg/l	<20	151	9
03.	Total Dissolve Solid	mg/l	---	1346	1435
04.	COD	mg/l	---	122	31
05.	Total Suspended Solid	mg/l	<30	153	9
06.	Oil & Grease	mg/l	---	ND	ND
07.	Residual Chlorine	mg/l	Min. 0.5	---	0.59

ND=Not Detectable

Royal Environment Auditing & Consultancy Service



mlitosh
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 : 10th September, 2017

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 at First Floor	Total Dust	Personal Respirable Dust sampler IAS 001	02	1.1-1.8	1.45	10	Gravimetric	6	---		Mr. Sandip Ramoliya

Instruments used : Envirotech make personal sampler, Model No. IAS 001

Calibration Due on : 12/11/2017



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-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 : 7th September, 2017

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 at First Floor	Total Dust	Personal Respirable Dust sampler IAS 001	02	1.3-1.9	1.6	10	Gravimetric	3	--		Mr. Sandip Ramoliya

Instruments used : Envirotech make personal sampler, Model No. IAS 001

Calibration Due on : 12/11/2017



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-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 September, 2017

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 (Cast House)	CO	Personal Respirable Dust sampler IAS 001	02	11-16	13.5	50 (ppm)	Gravimetric	5	---		Mr. Sandip Ramoliya
		Total Dust			2.1-2.6	2.35	10					

Instruments used - Envirotech make personal sampler, Model No. IAS 001
Calibration Due on: 12/11/2017

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 : 8th September, 2017

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 (Cast House)	CO	Personal Respirable Dust sampler IAS 001	02	4-8	6.0 (ppm)	50 (ppm)	Gravimetric	4	---		Mr. Sandip Ramoliya
		Total Dust			1-2-3	1.9	10					

Instruments used : Envirotech make personal sampler, Model No IAS 001

Calibration Due on : 12/11/2017



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 : 13th September, 2017

Sr. No	Location Operation monitored	Identified Contaminate	Sampling Instrument used	Airborne Contamination			TWA concentration 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	CCM Area (SDP / DISP)	Total Dust	Personal Respirable Dust sampler IAS 001	02	3.1-3.8	3.5	10	Gravimetric	3	---		Mr. Sandip Ramoliya
2	CCM Area (SDP-2)	Total Dust		02	1.0-1.6	1.3	10	Gravimetric	4	---		

Instruments used : Envirotech make personal sampler, Model No. IAS 001

Calibration Due on : 12/11/2017



For, Royal Environment Auditing & Consultancy Service


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