

TATA STEEL LIMITED

**Environmental Monitoring Report of CRM Complex at Bara, Jamshedpur
STACK EMISSION MONITORING REPORT FOR 2014-15**

All data in mg/Nm3

Location	Parameter	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
Mill Fume Exhaust (Demister APC)	PM	8.9	10.2	10.5	12.8	10.9	8.5	10.4	12.4	13.2	12.2	10.9	11.3
	SOx	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NOx	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Boiler stack (O2 analyser)	PM	9.5	10.4	8.9	8.4	10.5	9.8	10.2	11.2	10.5	9.5	11.3	10.4
	SOx	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NOx	6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
ARP stack (Scrubber)	PM	12.4	44.3	30.6	46.2	45.0	20.8	25.6	31.4	30.3	39.8	25.7	28.7
	SOx	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NOx	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Pickling line fume exhaust (Scrubber)	Acid Mist	10.7	12.4	8.9	9.9	6.5	5.3	7.7	10.9	6.5	8.7	4.6	7.9
	PM	28.4	16.3	12.6	18.9	26.9	12.9	10.5	15.4	18.6	22.9	20.4	10.5
	SOx	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	NOx	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	Acid Mist	7.1	6.9	5.2	5.8	4.2	4.7	5.5	4.2	5.5	6.1	5.3	6.3

* NT = Not Tracable, NA = Not Available

Manager Lab.
Manager Lab.
Environment Management

Sr. Manager
Sr. Manager
Environment Management

TATA STEEL LIMITED

Environmental Monitoring Report of CRM Complex at Bara, Jamshedpur

CRM TREATED EFFLUENT MONITORING REPORT FOR 2014-15

Location	Parameter	Norm	Unit	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
Drain at Gate No-1	pH	6.0-8.5	-	8.21	8.37	8.23	8.15	8.24	8.16	7.87	7.91	8.22	8.15	8.00	8.32
	TSS	100	mg/L	45	33	42	36	54	15	80	52	54	59	34	55.00
	Oil & Grease	10	mg/L	0.8	1	2.4	2.6	1.4	1.8	1.4	1.2	1.6	1.0	1.8	1.60
	Cr+6	0.20	mg/L	0.09	0.05	0.01	0.04	0.03	0.04	NT	0.04	NT	0.02	0.026	NT
Drain at Gate No-2	COD	250	mg/L	20	14	12	16	25	11	24	21	20	61	27	35.40
	pH	6.0-8.5	-	7.66	7.95	7.02	7.98	7.68	7.74	7.58	6.16	8.34	8.40	8.26	8.11
	TSS	100	mg/L	24	54	78	55	62	37	53	52	59	63	26	42
	Oil & Grease	10	mg/L	24	0.8	1.6	1.4	1.2	0.8	1	1	1.4	1.4	1.2	1.2
	Cr+6	0.20	mg/L	0.02	0.03	NT	0.03	NT	0.03	NT	0.02	NT	0.05	0.013	NT
	COD	250	mg/L	92	78	21	75	20	67	72	57	18	57	47	24.1

Standards applicable as per Environment (Protection) (Third Amendment) Rules, 2012 issued in Gazette of India Notification vide No.: G. S. R. 277 (E) dated March 31, 2012.

NT - Not Traced

Manoj Kumar

Manager - Lab.
Environment Management

Anup Sivarava

Sr. Manager
Environment Management

TATA STEEL LIMITED

Environmental Monitoring Report of CRM Complex at Bara, Jamshedpur
 FUGITIVE EMISSION MONITORING REPORT FOR 2014-15

Location	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
Near Mill Stand	0.11	0.17	0.28	1.21	0.18	0.16	1.05	0.59	1.41	1.08	1.26	1.24
Pickling Exist coil car towards BC Bay	1.8	1.4	2.1	2.85	1.58	1.66	1.98	1.79	2.24	2.16	1.68	1.45
Wet area Rinse section, Near Pickling RC Tank No-5	1.4	1.2	1.8	1.64	2.14	1.78	1.24	1.22	1.26	1.11	1.6	1.08

Parameter
 Particular
 Matter
 (mg/m³)

Nagajuna Reddy

Manager – Lab.
 Environment Management

Anup Sivaratan

Sr. Manager
 Environment Management

TATA STEEL LIMITED
Environmental Monitoring Report of CRM Complex at Bara, Jamshedpur
Noise Monitoring levels in the plant area for 2014-15

All data in dBA

Location	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
Near Rcph Pump House	81.3	62.8	79.2	80.2	77.4	69.5	80.1	82.8	82.7	79.8	75.2	79.0
Near Pickling Line Exit	78.6	59.6	75.4	74.8	72.8	69.2	79.5	80.4	79.5	77.5	79.8	80.7
Near Mills Stand	71.5	59.7	70.1	73.7	71.8	71.9	77.4	79.1	76.9	75.2	80.1	80.2
Near Mills Stand Outside	79.2	66.0	68.2	71.4	61.9	67.2	76.8	69.8	73.3	70.6	73.3	78.1
1 Mtr. Away From Compressor # 1	82.5	84.8	80.1	82.4	83.8	68.8	59.9	74.2	80.2	77.4	81.5	80.2
2 Mtr. Away From Compressor # 2	77.6	83.6	69.4	76.5	80.1	67.1	63.4	61.8	72.4	65.4	72.3	75.6
3 Mtr. Away From Compressor # 3	81.2	82.1	84.2	80.1	76.4	66.3	64.1	75.4	76.2	70.2	69.8	70.2
Inside Compressor Room	83.0	84.6	81.0	77.9	81.1	68.3	61.5	64.9	81.8	66.9	75.6	77.1
Inside Boiler House	82.5	83.2	72.6	76.5	77.8	69.5	72.5	63.3	75.8	72.5	74.6	80.2
Arp Pump Room	79.5	69.9	78.1	80.7	75.4	72.8	75.8	81.2	78.9	76.5	80.4	79.6
Sticher Area	72.1	61.0	79.2	78.1	73.4	68.4	80.2	80.4	77.6	73.5	79.8	77.3
Rince Tank Area	65.8	63.4	66.8	79.2	72.1	65.1	77.9	79.7	72.5	70.4	76.5	80.3
Main Office	61.7	50.1	63.7	66.2	59.8	56.1	57.2	62.2	59.1	65.5	61.3	55.3
Near Gate #1	68.1	56.5	65.4	65.3	60.4	71.0	74.1	65.6	60.2	79.8	73.5	60.2
Near Gate #2	71.4	61.3	78.2	68.6	62.3	59.7	57.9	74.1	68.4	70.2	74.9	75.3
Coil Receiving Area	71.3	69.7	70.2	75.5	71.4	71.2	75.2	67.5	78.1	66.4	74.3	77.1
DG Set Door Closed condition	66.3	63.7	65.9	67.3	66.1	65.6	80.1	75.4	72.1	73.2	78.2	70.4
DG Set Door Open condition	72.2	71.1	70.5	69.6	72.4	71.9	81.1	77.6	70.1	73.1	77.1	72.6

* NT = Not Tractable, NA = Not Available

Standards applicable as per Noise Pollution (Regulation and Control) (Amendment) Rules, 2000 notified vide S. O. 1046 (E), dated 22-11-2000

Nagajyoti Sood

Manager - Lab.
Environment Management

Anup Sivan

Sr. Manager
Environment Management

TATA STEEL LIMITED
Environmental Monitoring Report of CRM Complex at Bara, Jamshedpur
AMBIENT AIR QUALITY MONITORING REPORT FOR 2014-15

All data in $\mu\text{g}/\text{m}^3$

Location	Parameter	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15
Near Mill Despatch Shutter	PM10	76.5	72.4	68.5	65.4	60.9	57.5	70.2	70.4	60.7	55.2	72.1	52.1
	PM2.5	35.4	40.1	35.2	28.2	26.7	30.4	39.8	33.2	29.8	29.1	20.9	25.6
	SOx	18.5	21.4	19.4	16.4	15.2	18.7	22.4	24.5	22.4	20.4	16.5	20.1
	NOx	17.8	25.1	20.5	17.2	15.9	21.6	26.5	20.4	23.4	21.1	23.1	29.5
Near Pickling despatch shutter	PM10	65.4	80.4	77.2	60.8	51.4	66.8	74.1	69.1	71.8	66.2	65.1	62.1
	PM2.5	39.2	35.4	38.1	33.5	30.4	33.5	32.4	41.2	30.1	46.5	40.3	33.1
	SOx	22.5	20.4	21.4	20.3	28.4	23.1	26.5	23.1	22.7	19.8	22.6	19.5
	NOx	24.5	22.1	23.5	21.8	24.6	26.8	24.7	28.1	23.4	23.4	28.1	28.5
Near Roll Shop shutter	PM10	79.5	74.3	66.8	76.8	68.4	60.7	70.3	72.5	69.4	70.4	69.8	62.1
	PM2.5	41.5	40.1	37.6	32.4	33.2	30.1	36.7	33.5	26.4	26.7	24.1	23.4
	SOx	20.7	21.1	20.2	22.8	25.7	22.9	20.4	26.1	20.7	22.4	19.6	15.8
	NOx	20.4	18.7	17.5	24.2	21.2	20.4	20.4	23.2	26.8	24.8	20.4	28.9
Near HR Receiving Shutter	PM10	84.5	70.6	78.6	76.5	65.2	77.6	69.8	80.1	70.4	78.9	73.6	63.4
	PM2.5	45.5	35.4	41.2	50.6	37.8	36.8	33.1	43.9	32.1	40.5	35.6	29.1
	SOx	23.1	20.7	18.5	25.8	22.3	20.6	23.1	20.8	23.4	26.7	22.6	25.6
	NOx	24.7	24.7	22.4	26.1	28.9	25.8	26.4	26.4	26.4	22.4	20.4	33.4

* NT = Not Tracable, NA = Not Available

Standards applicable as per National Ambient Air Quality Standards vide Notification No.: B-29016/20/90/PCI-L dated 18th November 2009.

Nagendra Kumar
Manager - Lab.
Environment Management

Anup Sinha

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