Information to be provided for Monitoring of the Project

1. Raw Material Consumption & Steel Production:

Total Raw Material Consumption	Unit	2011-12	2012-13	2013-14
Purchase Coke	Tonne	1,30,344	8,00,163	4,44,728
Coking Coal (Incl HMC)	Tonne	53,88,048	55,62,519	63,23,023
Non-Coking Coal	Tonne	9,90,849	9,69,915	12,04,696
Middling Coal	Tonne	98,747	1,08,492	65,471
Iron Ore	Tonne	118,55,886	140,52,514	158,18,309
Purchase Pellet	Tonne	-	55,753	54,083
Lime Stone	Tonne	25,06,409	27,37,554	30,61,571
Dolomite & Pyroxenite	Tonne	4,27,433	4,80,829	6,69,743
Quartzite and Other materials	Tonne	1,03,043	63,019	66,364
Ferro Manganese - High Carbon Lumps	Tonne	21,330	15,822	14,343
Ferro Manganese - Medium Carbon	Tonne	3,123	6,569	11,650
Zinc & Zinc Alloys	Tonne	15,738	15,477	14,446
Total Crude Steel Production	Tonne	71,32,157	81,30,153	91,55,087
Total Saleable Steel	Tonne	69,69,617	79,41,247	89,30,835

2. Water Consumption, Recycling & Energy Consumption:

Parameters	Unit	2011-12	2012-13	2013-14
Specific Water Consumption	m^3/tcs	5.83	5.92	5.48
Water Consumed from Industrial Use	m^3/day	1,13,977	1,31,925	1,39,826
Effluent Recycled	m^3/day	19,333	13,121	17,601
Water Consumed from Domestic Use	m^3/day	1,81,693	1,82,282	1,89,874
Specific Energy Consumption	Gcal/tcs	6.09	6.08	6.02

3. Solid Waste Generation and Utilization:

Parameters	Unit	2011-12	2012-13	2013-14
BF Slag Generated	Tonne	24,86,013	27,82,041	32,14,518
BF Slag Utilized	Tonne	22,41,599	26,33,446	29,44,810
LD Slag Generated	Tonne	12,93,243	15,70,371	16,74,135
LD Slag Utilized	Tonne	4,12,506	8,85,333	14,60,893
Mill Sludge & Scale Generated	Tonne	1,07,442	1,22,142	1,48,202
Mill Sludge & Scale Utilized	Tonne	81,434	99,029	1,08,912
Process Dust Generated	Tonne	1,15,526	1,69,497	1,92,801
Process Dust Utilized	Tonne	1,22,321	1,64,715	1,73,054
BF Sludge Generated	Tonne	77,125	83,142	84,948
BF Sludge Utilized	Tonne	71,369	66,749	96,830
Iron Oxide Generated	Tonne	7,652	5,968	7,805
Iron Oxide Utilized	Tonne	7,709	6,033	7,700
Coal Tar Sludge Generated	Tonne	3,849	3,964	4,968
Coal Tar Sludge Utilized	Tonne	3,849	3,958	4,968
BOT Sludge Generated	Tonne	276	316	811
BOT Sludge Utilized	Tonne	276	316	811

4. Plantation, Environmental Expenditure & Occupational Health:

Parameters	Unit	2011-12	2012-13	2013-14
Plantation	Nos	15,630	45,929	39,276
Cumulative Environmental Expenditure	ضLakhs	34,345	37,544	39,729
Occupational Health Surveillance/Check-up	Nos.	15,013	16,144	16,643
No. of occupational diseases reported	Nos	0	0	0

5. **Month Wise Quality of Iron Ore (2011-12 to 2013-14):**

2011-12

Parameters	Units	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	2011-12
Noamundi-Blended fines														
Total Fe	%	66.05	65.90	65.88	65.93	65.89	65.85	65.88	65.61	65.80	65.77	65.54	65.64	65.81
SiO_2	%	1.23	1.23	1.32	1.28	1.40	1.43	1.14	1.15	1.23	1.35	1.61	1.42	1.31
Al_2O_3	%	1.99	2.00	1.99	1.98	1.99	1.99	2.01	2.07	2.03	2.08	2.06	2.10	2.03
Phos.	%	0.09	0.09	0.09	0.10	0.09	0.10	0.11	0.12	0.11	0.10	0.09	0.10	0.10
Joda-Classifier fines														
Total Fe	%	66.08	65.79	65.86	65.96	65.93	65.74	65.76	65.86	65.84	65.78	65.71	65.78	65.84
SiO_2	%	1.54	1.47	1.55	1.60	1.76	1.81	1.79	1.56	1.58	1.61	1.70	1.61	1.63
Al_2O_3	%	1.99	1.99	1.99	1.99	1.97	2.00	1.99	1.98	1.99	1.99	2.00	1.99	1.99
Phos.	%	0.08	0.07	0.07	0.06	0.05	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.07

2012-13

Parameters	Units	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	2012-13
Noamundi-Blended fines														
Total Fe	%	65.67	65.36	65.65	65.23	64.99	65.30	65.24	65.13	65.54	65.72	65.79	65.47	65.42
SiO_2	%	1.37	1.68	1.41	1.93	2.09	1.67	1.89	1.81	1.38	1.42	1.41	1.65	1.64
Al_2O_3	%	2.06	2.11	2.06	2.11	2.34	2.20	2.25	2.26	2.23	2.17	2.12	2.12	2.17
Phos.	%	0.10	0.10	0.10	0.09	0.10	0.09	0.09	0.10	0.09	0.09	0.08	0.09	0.09
Joda-Classifier fines														
Total Fe	%	65.63	65.73	65.55	65.35	65.50	65.64	65.71	65.64	65.50	65.78	65.41	65.67	65.59
SiO_2	%	1.80	1.82	1.87	2.05	2.06	1.88	1.87	1.89	1.95	2.17	2.02	1.80	1.93
Al_2O_3	%	1.98	1.95	1.97	1.99	1.87	1.86	1.73	1.78	1.92	1.59	1.88	1.92	1.87
Phos.	%	0.07	0.07	0.07	0.07	0.07	0.06	0.07	0.07	0.07	0.06	0.07	0.07	0.07

2013-14

Parameters	Units	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	2013-14
Noamundi-Blended fines														
Total Fe	%	65.10	65.06	65.11	65.02	64.96	64.80	65.00	64.94	64.73	64.82	65.05	64.79	64.95
SiO_2	%	1.89	2.06	1.73	1.81	1.79	2.05	1.64	1.92	2.02	2.04	1.66	2.08	1.89
Al_2O_3	%	2.27	2.21	2.27	2.26	2.25	2.21	2.23	2.22	2.31	2.29	2.29	2.37	2.26
Phos.	%	0.08	0.08	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.08	0.09	0.07	0.09
Joda-Classifier fines														
Total Fe	%	64.73	64.82	64.86	65.08	64.63	64.47	64.74	65.24	64.79	65.12	64.99	65.11	64.88
SiO_2	%	2.25	1.97	2.06	1.89	2.18	2.58	2.47	2.02	2.30	2.00	2.28	1.98	2.17
Al_2O_3	%	2.07	2.07	2.16	2.11	2.20	2.12	2.01	1.91	2.04	1.95	1.90	1.96	2.04
Phos.	%	0.07	0.07	0.07	0.08	0.08	0.07	0.06	0.06	0.07	0.07	0.08	0.09	0.07

6. Data on Accidents/Fatality:

Parameter	2009-10	2010-11	2011-12	2012-13	2013-14	Location	Major Primary Reasons	Measures / action taken		
								Preventive measures currently in place	Preventive measures proposed due to accidents	Action Taken
Reportable accidents (LTI)	71	65	80	97	103	Jamshedpur Works	• Slip/Trip/Fall • Fire/Explosion • Material handling • Burn Injury • Road Incident • Skidding • Hit or Press by Object • Collision/Dashing • Electrical Flash • Hydraulic / Pneumatic • Fall from height • Medical Ailment • Cut by Sharp edge • Energy isolation • Equipment machinery damage	1. Model work place system to improve work environment and reduce the slip/ trip/ fall cases 2. Elimination of man-machine intervention in material handling process. 3. Free bus services increased to commute mainly contract workers within the plant. 4. Fire and Gas audit system. 5. Deployment of speed monitoring cameras. 6. Safety Excellence centre & specialized training centre developed with NTTF to impart job specific training to contract employees. 7. Blind spot elimination of Heavy vehicles. 8. Fatality Risk control Program for identifying unsafe conditions/acts having fatality potential. 9. Safety training to regular & contract employees.	1. Road Safety Audit to improve behavioural aspect of road users and also imparting them defensive driving training. 2. Focused safety audit & observation on Slip / Trip/Fall hazard areas. 3. Training and counselling to employees to improve safety culture. 4. Pre start up safety review introduced in MSDs.	1. Rescued the injured persons to the First Aid Station for immediate medical treatment. 2. Containment action taken to prevent reoccurrence. 3. Investigation team formed to find out the root causes.
Fatal accidents	1	2	5	3	5	Jamshedpur Works	• Run Over • Hit or Press by Object • Collapse of material from side wall of excavated pit • Fire/Explosion • Heat Burn • Gas Exposure / Asphyxiation • Fall from height • Rail			

7. Six Monthly Monitoring Data (April 2014 to Sep 2014):

a. Stack Particulate Matter Emission Monitoring Report (Manual & Online Monitoring)

Stack Location	Manual Monitoring data (mg/Nm^3)							Online Monitoring data (mg/Nm^3)					
	Norm* (mg/Nm^3)	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14
Battery#3	50	-	28	-	-	-	-	48	44	45	46	34	37
Battery#5	50	-	46	38	-	-	-	32	45	34	33	34	30
Battery#6	50	49	21	34	-	-	-	33	35	28	24	22	33
Battery#7	50	33	-	17	-	-	-	23	33	35	39	30	37
Battery#8	50	20	27	24	28	39	-	46	27	37	44	47	38
Battery#9	50	14	22	-	-	18	-	32	48	39	43	35	27
Battery#10	50	31	-	-	25	-	-	-	-	-	-	49	41
Battery#10 Dedusting	50	-	-	-	-	-	3	-	-	-	-	-	-
SP#1 waste gas	150	21	40	34	-	-	-	-	-	63	30	28	34
SP#1 Dedusting	150	17	125	46	-	25	-	69	56	42	50	34	43
SP#2 waste gas	150	-	63	76	-	-	-	50	51	54	58	34	55
SP#2 Dedusting	150	-	-	-	-	-	-	137	140	83	43	55	63
SP#3 Combined	150	-	-	-	68	-	93	140	118	78	134	99	128
SP#4 Combined	150	-	-	-	-	-	-	134	114	141	136	148	83
F Bl.Furnace Cast House	100	-	-	-	-	18	-	-	-	-	-	-	-
F Bl.Furnace Stock House	100	-	17	-	-	24	17	42	53	42	45	38	37
G Bl. Furnace Cast House	100	50	17	-	15	-	9	9	10	21	7	9	7
G Bl.Furnace Stock House	100	-	-	92	-	-	59	94	54	81	79	64	65
H Bl.Furnace Cast House	100	13	-	8	-	-	17	19	10	4	3	4	6
H Bl.Furnace Stock House	100	19	24	10	-	-	-	19	13	12	9	12	11
I Bl.Furnace Cast House	100	8	14	-	6	-	13	3	2	3	2	5	2
I Bl.Furnace Stock House	100	23	13	26	21	19	54	5	6	6	6	8	8
LD #1 Sec. Emission	100	31	11	-	12	-	-	-	-	-	-	-	-
LD # 1 LF # 1	150	-	25	10	-	-	36	-	-	-	-	-	-
LD # 1 LF # 2	150	-	32	-	-	-	-	-	-	-	-	-	-
LD # 1 LF # 3	150	24	31	20	-	-	13	-	-	-	-	-	-
LD # 2 Sec. Emission 1	100	32	43	24	-	-	29	30	62	50	21	67	27
LD # 2 Sec. Emission 2	100	-	36	18	-	-	-	38	69	49	15	41	38
LD#2 LF# 1	150	23	16	-	-	-	3	-	-	-	-	-	-

LD#2 LF# 2	150	17	18	22	-	-	6	-	-	-	-	-	-
LD#3 Sec. Emission	100	9	-	-	-	-	15	16	20	27	20	31	27
LD#3 LF#1	150	26	55	14	-	2	-	18	20	22	22	12	7
LD#3 LF#2	150	18	59	15	-	7	-	42	84	28	35	8	9
Pellet Plant Wind Box	150	26	26	24	16	19	32	-	-	-	-	34	32
Pellet Plant Hood	150	-	16	12	11	10	12	-	-	-	-	11	6
Pellet Plant central dedusting	150	17	18	-	13	12	21	-	-	-	-	12	10
Pellet Plant combined dryer	150	20	29	30	21	40	69	-	-	-	-	32	35
Pellet Plant Grinding Mill 1	150	-	40	40	55	57	24	-	-	-	-	-	-
Pellet Plant Grinding Mill 2	150	39	33	22	35	35	-	-	-	-	-	-	-
Lime Plant MK# 1	150	4	9	4	33	13	-	-	-	-	-	-	-
Lime Plant MK# 2	150	3	16	9	21	9	-	-	-	-	-	-	-
Lime Plant MK# 3&4	150	-	-	-	-	9	-	-	-	-	-	-	-
Lime Plant MK# 5	150	6	-	5	-	-	-	-	-	-	-	-	-
Lime Plant MK# 6	150	14	5	4	5	5	-	-	-	-	-	-	-
Lime Plant DE#12	150	23	26	24	34	-	-	-	-	-	-	-	-
Lime Plant MK# 7	150	5	12	7	11	5	-	-	-	-	-	-	25
Lime Plant DE#1B	150	9	-	3	4	65	-	-	-	-	-	-	-
Lime Plant MK# 7 DE 15	150	10	4	3	8	-	10	11	13	15	17	20	23
Lime Plant MK# 7 DE 16	150	-	-	-	-	-	-	16	18	20	22	24	24
Lime Plant MK# 8	150	8	9	13	18	-	-	-	-	9	10	12	8
Lime Plant MK# 9	150	11	11	15	19	18	-	-	-	7	9	8	7
Lime Plant DE#9	150	-	49	64	-	59	-	-	-	-	-	-	-
Power House#3 Boiler 5	350	-	21	13	5	-	-	-	-	-	-	-	-
Power House#3 Boiler 6	350	-	10	8	11	-	-	-	-	-	-	-	-
Power House#3 Boiler 7&8	350	44	4	93	-	-	-	-	-	-	-	-	-
Power House#4 Boiler 1 & 2	350	22	9	-	-	-	30	-	-	-	-	-	-
Power House#4 Boiler 3	350	36	17	-	-	-	-	-	-	-	-	-	-
Power House#4 Boiler 4	350	25	48	-	-	65	11	34	29	28	28	34	23
Power House#5 Boiler A	350	21	15	-	13	-	11	-	-	-	-	-	-
Power House#5 Boiler B&C	350	-	11	23	-	-	8	-	-	-	-	-	-
SGDP#1	150	-	-	-	85	-	-	-	-	-	-	-	-
SGDP#2	150	-	38	26	53	-	-	-	-	-	-	-	-
CRM PLTCM	150	28	4	-	-	-	-	-	-	-	-	-	-
CRM SPM	150	3	-	-	-	-	-	-	-	-	-	-	-
CRM CGL-1	150	8	7	9	-	-	-	-	-	-	-	-	-

CRM BAF	150	22	5	-	16	23	23	-	-	-	-	-	-
CRM ARP	150	40	-	-	-	-	-	-	-	-	-	-	-
CRM ECL	150	-	6	-	-	-	-	-	-	-	-	-	-
MM	150	-	38	50	34	-	-	-	-	-	-	-	-
WRM	150	40	37	-	38	-	30	-	-	-	-	-	-
NBM	150	-	32	-	40	-	-	-	-	-	-	-	-
HSM Reheating Furnace-1	150	-	-	76	-	-	32	-	-	-	-	-	-
HSM Reheating Furnace-2	150	-	-	51	-	-	20	-	-	-	-	-	-

Note - Standards applicable as per Environment (Protection) (Third Amendment) Rules, 2012 issued in Gazette of India Notification no. GSR 277 (E) ï Dated March 31, 2012

b. Ambient Air Quality Monitoring Report (Works and Town)

1. April 2014

Sampling Area	Sample Location	Parameters											
		PM_{10}	$PM_{2.5}$	SO_2	NO_x	CO	NH_3	O_3	Pb	As	Ni	C_6H_6	BaP
Inside Works	West Plant First Air Centre	65	46	29	30	987	27	98	<0.5	<1.0	<1.0	<1.0	<0.5
	Cold Rolling Mill	50	39	31	24	1006	41	87	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 3 Gate	79	35	26	47	870	28	92	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 6 Gate	74	44	39	45	952	45	105	<0.5	<1.0	<1.0	<1.0	<0.5
Outside Works	River Pump House	81	-	11	21	-	-	-	-	-	-	-	-
	Southern Sewage Treatment Plant	70	-	8	15	-	-	-	-	-	-	-	-
	Golmuri	85	-	18	29	-	-	-	-	-	-	-	-
	Burmamines	87	-	18	30	-	-	-	-	-	-	-	-

2. May 2014

Sampling Area	Sample Location	Parameters											
		PM_{10}	$PM_{2.5}$	SO_2	NO_x	CO	NH_3	O_3	Pb	As	Ni	C_6H_6	BaP
Inside Works	West Plant First Air Centre	89	35	60	65	1142	33	86	<0.5	<1.0	<1.0	<1.0	<0.5
	Cold Rolling Mill	88	41	50	52	1211	34	104	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 3 Gate	86	40	55	59	540	21	95	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 6 Gate	80	42	58	60	756	32	79	0.5	<1.0	<1.0	<1.0	<0.5
Outside Works	River Pump House	80	-	12	32	-	-	-	-	-	-	-	-
	Southern Sewage Treatment Plant	77	-	16	29	-	-	-	-	-	-	-	-
	Golmuri	85	-	10	24	-	-	-	-	-	-	-	-
	Burmamines	88	-	13	26	-	-	-	-	-	-	-	-

3. June 2014

Sampling Area	Sample Location	Parameters											
		PM_{10}	$PM_{2.5}$	SO_2	NO_x	CO	NH_3	O_3	Pb	As	Ni	C_6H_6	BaP
Inside Works	West Plant First Air Centre	81	43	50	58	1185	30	77	<0.5	<1.0	<1.0	<1.0	<0.5
	Cold Rolling Mill	80	35	51	54	1257	36	92	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 3 Gate	84	48	47	55	516	22	105	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 6 Gate	84	43	54	60	789	34	91	0.3	<1.0	<1.0	<1.0	<0.5
Outside Works	River Pump House	78	-	15	28	-	-	-	-	-	-	-	-
	Southern Sewage Treatment Plant	90	-	19	33	-	-	-	-	-	-	-	-
	Golmuri	80	-	12	21	-	-	-	-	-	-	-	-
	Burmamines	82	-	16	28	-	-	-	-	-	-	-	-

4. July 2014

Sampling Area	Sample Location	Parameters											
		PM_{10}	$PM_{2.5}$	SO_2	NO_x	CO	NH_3	O_3	Pb	As	Ni	C_6H_6	BaP
Inside Works	West Plant First Air Centre	75	40	52	57	1098	34	78	<0.5	<1.0	<1.0	<1.0	<0.5
	Cold Rolling Mill	84	36	55	50	1128	28	84	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 3 Gate	77	45	44	52	496	26	96	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 6 Gate	81	39	51	63	795	41	107	0.4	<1.0	<1.0	<1.0	<0.5
Outside Works	River Pump House	73	-	21	26	-	-	-	-	-	-	-	-
	Southern Sewage Treatment Plant	86	-	23	38	-	-	-	-	-	-	-	-
	Golmuri	77	-	15	25	-	-	-	-	-	-	-	-
	Burmamines	88	-	22	33	-	-	-	-	-	-	-	-

5. Aug 2014

Sampling Area	Sample Location	Parameters											
		PM_{10}	$PM_{2.5}$	SO_2	NO_x	CO	NH_3	O_3	Pb	As	Ni	C_6H_6	BaP
Inside Works	West Plant First Air Centre	82	32	39	36	1010	34	98	<0.5	<1.0	<1.0	<1.0	<0.5
	Cold Rolling Mill	65	30	40	41	890	28	84	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 3 Gate	79	48	36	34	550	26	76	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 6 Gate	82	29	48	45	670	41	90	<0.5	<1.0	<1.0	<1.0	<0.5
Outside Works	River Pump House	70	-	22	31	-	-	-	-	-	-	-	-
	Southern Sewage Treatment Plant	81	-	16	29	-	-	-	-	-	-	-	-
	Golmuri	69	-	18	28	-	-	-	-	-	-	-	-
	Burmamines	78	-	20	26	-	-	-	-	-	-	-	-

6. Sep 2014

Sampling Area	Sample Location	Parameters											
		PM_{10}	$PM_{2.5}$	SO_2	NO_x	CO	NH_3	O_3	Pb	As	Ni	C_6H_6	BaP
Inside Works	West Plant First Air Centre	70	30	41	45	1184	37	81	<0.5	<1.0	<1.0	<1.0	<0.5
	Cold Rolling Mill	76	41	40	44	1054	30	76	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 3 Gate	69	38	41	48	410	24	94	<0.5	<1.0	<1.0	<1.0	<0.5
	Power House # 6 Gate	72	33	43	51	820	39	102	<0.5	<1.0	<1.0	<1.0	<0.5
Outside Works	River Pump House	78	57	25	29	1205	42	117	<0.5	<1.0	<1.0	<1.0	<0.5
	Southern Sewage Treatment Plant	76	49	21	27	1157	51	123	<0.5	<1.0	<1.0	<1.0	<0.5
	Golmuri	74	61	15	21	1310	38	95	0.6	<1.0	<1.0	<1.0	<0.5
	Burmamines	82	69	26	32	1201	47	105	0.8	<1.0	<1.0	<1.0	<0.5

- : No Data/could not monitored

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

c. Effluent Quality Monitoring Report

Sample Location	Parameter	UoM	Apr-14			May-14			Jun-14			Jul-14			Aug-14			Sep-14		
			Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
Susun Gharia	Ammonical Nitrogen (as N)	mg/L	39	10	23	28.0	8.4	19.3	31	7	18	28	11	21	38	14	23	23	11	18
	Free Cyanide (as CN^-)	mg/L	0.17	0.11	0.13	0.15	0.10	0.12	0.15	0.10	0.12	0.14	0.10	0.12	0.14	0.10	0.12	0.14	0.10	0.12
	Oil & Grease	mg/L	3.0	0.4	1.5	3.0	1.2	2.1	3.2	1.2	1.8	2.6	1.0	1.8	2.4	1.0	1.5	2.2	1.0	1.5
	Total Suspended solids	mg/L	71	10	47	68	13	45	57	22	40	45	20	31	51	21	35	58	28	41
	Chemical Oxygen Demand, COD	mg/L	67	19	38	75	25	44	58	26	40	84	62	71	57	21	40	42	15	25
	Biological Oxygen Demand, BOD	mg/L	5	4	5	16	4	10	14	10	13	16	10	13	11	5	7	10	6	8
	pH	-	8.3	7.9	8.1	8.4	7.9	8.2	8.3	7.9	8.1	8.20	7.80	8.08	8.3	7.7	8.1	8.2	7.8	8.1
Garam Nala	**Parameter**	UoM	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**
	Oil & Grease	mg/L	1.0	0.4	0.7	1.2	0.4	0.7	1.2	0.4	0.7	1.6	0.4	0.9	1.2	0.4	0.8	1.2	0.4	0.8
	Total Suspended solids	mg/L	37	10	19	49	9	25	32	4	17	36	13	26	30	10	19	30	10	19
	Chemical Oxygen Demand, COD	mg/L	16	9	12	14	10	12	15	6	11	26	10	16	22	10	18	22	10	18
	Biological Oxygen Demand, BOD	mg/L	16	12	14	14	2	7	5	2	3	5	3	3	12	3	8	12	3	8
	pH	mg/L	8.3	7.4	8.0	8.4	7.5	8.1	8.3	7.1	7.8	8.15	7.58	7.90	8.2	7.2	7.9	8.2	7.2	7.9
Ram Mandir Nala	**Parameter**	UoM	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**
	Oil & Grease	mg/L	1.8	0.6	0.8	1.8	0.8	1.1	1.8	0.6	1.1	1.8	0.6	1.2	1.4	0.6	0.9	1.8	0.4	1.0
	Total Suspended solids	mg/L	68	10	32	43	18	27	41	12	26	55	22	35	28	15	22	45	19	29
	Chemical Oxygen Demand, COD	mg/L	19	5	12	34	5	20	49	26	35	50	27	36	16	11	13	24	16	20
	Biological Oxygen Demand, BOD	mg/L	6	3	4	8	6	7	8	5	6	6	4	5	4	2	3	7	4	5
	pH	mg/L	8.4	7.5	7.8	8.4	7.5	8.1	8.2	7.1	7.9	8.28	7.65	8.09	8.2	7.4	7.9	8.2	7.5	8.0
HSM Drain	**Parameter**	UoM	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**	**Max**	**Min**	**Avg**
	Oil & Grease	mg/L	4.0	1.2	2.0	2.8	1.2	2.2	3.2	1.2	2.2	3.4	1.6	2.6	3.6	2.0	2.8	3.2	1.6	2.3
	Total Suspended solids	mg/L	89	24	44	74	26	47	55	23	39	65	25	45	55	26	44	51	20	39
	Chemical Oxygen Demand, COD	mg/L	94	29	58	99	37	75	85	30	54	74	54	63	65	32	47	17	10	13
	Biological Oxygen Demand, BOD	mg/L	15	1	8	37	14	23	21	15	18	13	9	11	10	5	7	6	4	5
	pH	mg/L	8.2	7.4	8.0	8.4	7.5	8.0	8.3	7.8	8.1	8.21	7.60	8.01	8.2	7.4	7.9	8.3	7.9	8.1

Note: 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.

d. Noise Level Monitoring Report

Sl. No.	Area	Apr-14		May-14		Jun-14		Jul-14		Aug-14		Sep-14	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
A)	**SILENCE ZONE**												
1	TMH (Near Status)	66.3	60.4	44.6	33.1	66.2	61.9	68.3	60.2	44.0	41.0	55.2	54.1
2	JUSCO School Kadma	64.7	58.1	46.2	26.7	67.6	67.6	76.7	70.1	62.0	57.3	71.6	60.3
3	Kerala Public School Bistupur	71.1	61.2	43.5	31.2	68.5	64.2	74.2	65.1	55.0	49.2	54.2	50.3
4	South Park School Bistupur	68.5	54.2	40.5	21.1	63.6	59.8	71.2	54.1	58.0	47.5	58.7	51.1
5	Old Court Area (Jubilee Park)	75.7	68.1	48.2	23.4	77.2	75.3	78.9	53.2	60.0	52.7	70.2	66.2
B)	**RESIDENTIAL ZONE**												
1	Circuit House Area (North)	70.3	55.2	50.4	40.1	64.2	60.8	69.5	61.8	57.0	48.7	65.7	52.1
2	B.H. Area	68.2	48.9	46.8	26.4	62.7	61.2	71.5	66.2	68.3	54.5	71.2	60.4
3	Farm Area	64.7	57.2	49.1	32.5	63.4	60.1	73.2	54.1	66.8	52.3	67.8	56.2
4	Baridih Basti	66.2	56.4	51.8	41.6	70.3	65.2	69.1	62.7	70.0	55.6	69.1	55.4
5	Carriage Colony Burma Mines	69.4	54.3	52.4	40.3	69.8	63.9	70.3	58.4	68.7	57.4	68.6	57.2
6	Agrico Colony	71.2	59.7	49.9	39.8	70.1	66.7	74.5	64.3	67.6	53.1	65.9	50.3
7	South Park	70.1	66.2	52	36.4	64.3	58.5	73.7	52.4	66.9	56.5	68.7	55.2
C.	**COMMERCIAL ZONE**												
1	Sakchi Market	79.3	61.5	61.8	50.1	81.3	78.3	78.1	72.1	75.7	63.2	80.8	71.4
2	Golmuri Market	74.1	59.2	60.8	49.1	76.2	70.5	76.2	63.2	73.4	66.3	69.3	53.2
3	Burma Mines Market	70.8	58.1	61	43.5	72.8	68.7	73.1	62.4	74.6	64.1	72.7	60.8
4	Apna Bazar Bistupur	72.1	60.2	59.8	50.7	79.5	71.4	74.6	62.1	67.1	56.5	68.3	54.2
5	ôRô Road Bistupur (Behind Nalanda Hotel)	75.8	57.3	63.9	46.2	73.7	69.8	70.3	61.9	69.7	58.3	70.6	50.7
D)	**INDUSTRIAL ZONE**												
1	EAST SIDE	70.5	60.1	62.5	60.0	66.1	65.9	71.2	66.4	68.6	73.5	75.9	65.3
2	WEST SIDE	69.5	49.5	68.9	66.8	60.4	69.8	69.5	58.2	67.4	67.2	77.4	61.8
3	NORTH	72.3	58.8	64.6	70.9	61.4	78.5	65.3	50.4	67.5	78.7	79.1	70.2
4	SOUTH	63.5	42.3	68.9	59.1	54.7	62.3	64.7	54.2	69.8	65.2	73.8	62.5
5	NORTH EAST	65.2	48.7	65.4	70.2	60.5	73.5	68.4	62.1	71.5	74.8	78.2	70.3
6	NORTH WEST	69.7	55.4	68.5	54.8	49.9	63.7	71.0	60.6	58.1	50.3	58.1	49.6
7	SOUTH EAST	66.4	50.4	70.1	57.8	55.4	67.9	73.1	62.2	55.3	59.2	69.3	55.6
8	SOUTH WEST	63.2	47.9	63.4	61.7	58.7	59.1	68.3	56.5	65.2	68.7	78.9	62.7

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