



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
भिलाई इस्पात संयंत्र
BHILAI STEEL PLANT

GM I/c(EnMD)/B-8/2021/429

Date: 24/12/2021

To,

Integrated Regional Office,
Aranya Bhawan, North Block, Sector-19,
Naya Raipur,
Atal Nagar, Chhattisgarh
E-mail: iroraipur@gmail.com

Sub: Environmental Clearance of 7.0 MTPA Expansion at BSP – Submission of 6 monthly compliances Reports.

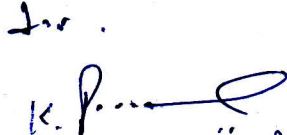
Ref: Environmental Clearance granted by MoEFCC's vide F.no. J-11011/28/2007- IA II (I) dated 24.05.2019.

Respected Sir,

Six monthly compliance report (April'2021 to September'2021) for the BSP's 7.0 MT Expansion / Modernization project vide letter under reference is enclosed.

The project details & pointwise information on the status of compliance of EC conditions along with relevant monitoring reports & other details etc. are also enclosed.

Thanking you,


(Uma Katoch)
GM (Env.MD)
24/12/2021

Copy to:

In-Charge
Ministry of Environment & Forests and Climate Change,
Regional Office (West-Central Zone)
Ground Floor, East Wing
New Secretariat, Civil Line
Nagpur – 440001

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Bhilai 490 001, Chhattisgarh, Fax: 0788-2222010, Website www.sail.co.in

हर किसी की जिंदगी से जुड़ा हुआ है सेल

There's little bit of SAIL in everybody's life

MONITORING REPORT DATA SHEET

1	Project Type: River-valley/Mining/ Industry/ Thermal/Nuclear/Others (specify)	Industry – Integrated Iron & Steel Plant
2	Name of the project	Revised Configuration of Modernization-cum-expansion of 7.0 MTPA Bhilai Steel Plant
3	Clearance (s) OM No. and Date	F No. J-11011/28/2007-IAII(I) dtd 24 th May 2019
4	Location	
	a) District (s)	Durg
	b) State (s)	Chhattisgarh
	c) Location Latitude/longitude	Latitude.: 21 ⁰ 11 ^I to 21 ⁰ 13 ^I Longitude – 81 ⁰ 22 ^I to 81 ⁰ 24 ^I
5	Address for correspondence	
	a) Address of the concerned Project Chief Engineer (with Pin code & Telephone/ Telex/ Fax Number	Shri A K Bhatt ED (Project) Bhilai Steel Plant, Bhilai – 490001 Phone – 0788 – 2852100
	b) Address of the concerned Project Chief Engineer (with Pin code & Telephone/ Telex/ Fax Number	Mrs. Uma Katoch General Manager I/c (Environment) Bhilai Steel Plant, Bhilai – 490001 Phone – 0788 – 2860582 (M-9407981592)
6	Salient Features	
	a) Of the project	The summary of Revised Configuration of Modernization-cum-expansion of 7.0 MTPA Bhilai Steel Plant is given at annexure-1. The complete details are given in EIA & EMP Report already submitted to MoEFCC.
	b) of the Environment Management Plans	The Environment Management Programs/Plans have already been completed. However, further actions for environment Management are provided in the attached compliance report against the conditions of EC
7	Breakup of the Project Area	
	a) Submergence area : Forest & Non-forest	Nil
	b) Others	The proposed Revised Configuration of Modernization-cum-expansion of 7.0 MTPA Bhilai Steel Plant will take place within the 6286.75 Hectares under its possession. No additional land will be required for the expansion.
8	Break up of the Project affected population with enumeration of those losing Houses/ Dwelling units only.	

	Agricultural land only, both dwelling units & agricultural land & landless labourers/ Artisans	
	a) SC, ST/Adivasi	NA
	b) Others (Please indicate whether these figures are based on any specific and systematic survey carried out or only rovisional figures, if a survey is carried out give details & year of survey)	NA
9	Financial details	
	a) Project cost as originally planned and subsequent revised estimates and the year of price reference	Rs. 273 Crores
	b) Allocation mode for environmental management plans with item wise and year wise break-up	Proposed environment management programs under modernization / expansion of Already completed against the earlier EC granted to BSP vide EC no. F No. J-11011/28/2007-IAII(I) Dtd 31.03.2018 However, further actions for environment Management are provided in the attached compliance report against the conditions of EC
	c) Benefit cost ratio/Internal rate of Return and the year of assessment	NA Note: The Modernization /expansion of the plant already completed
	d) Whether(c) includes the cost of Environment Management as shown in the above.	NA Note: The Modernization /expansion of the plant already completed
	e) Actual expenditure incurred on the project so far	11 Crores
	f) Actual expenditure incurred on the Environment Management	NA Note: The proposed environment management programs under Modernization /expansion of the plant already completed against the earlier EC granted to BSP vide EC no. F No. J-11011/28/2007-IAII(I) Dtd 31.03.2018 However, further actions for environment Management are provided in the attached compliance report against the conditions of EC
10	Forest land requirement	
	a) The status of approval for diversion of forest land for non-forestry use	The expansion project is taking place within the existing project area. No additional land is acquired.
	b) The status of clearing felling	NA

	c) The status of compensatory afforestation, if any Comments on the viability & sustainability of compensatory afforestation program in the light of actual field experience so far	NA
11	The status of clear felling in non-forest area (such as submergence area of reservoir, approach roads), if any with quantitative information information required	NA
12	Status of Construction (Actual and or planned)	-Given at Annexure-1
	a) Date of commencement (Actual and or planned)	11/07/2009 (Earlier 7.0 MT Plant)
	b) Date of completion (Actual and or planned)	
13	Reason for the delay if the project is yet to start	NA

Annexure-1

Revised Configuration of BSP's 7.0 MT MODEX.

Units already completed under EC no F No. J-11011/28/2007-IAII(I) dtd 31/03/2008.

Sl. No.	Major Packages	Status
1	Coke Oven Complex	Completed
2	Sinter Plant Complex	Completed
3	Blast Furnace Complex	Completed
4	SMS-I	-
5	SMS-II	Completed
6	SMS-III	Completed
7	BBM	-
8	Plate Mill	Completed
9	RSM	Completed
10	Merchant Mill	Completed
11	Bar Rod Mill	Completed
12	Universal Beam Mill	Dropped/Not coming
13	Wire Rods	Completed
14	Lime & Dolo Plants	Completed
15	Oxygen Plant	Completed
16	Power & Blowing Station	Completed

Changes in the revised configuration for which EC was granted by MoEFCC vide EC No.

F No. J-11011/28/2007-IAII(I) dtd 24/05/2019.

- a) **CO & CCD:** Nine Batteries can be operated out of 11 installed batteries and any 2 batteries will be non-operational (under cold repair/rebuilding) -- earlier, at a time, 8 batteries operations were permitted and 3 batteries were required to be kept under cold repair/rebuilding.

- b) **Operation of BF-1** for three more years is permitted till sequential capital repairs of BF-4,5,6 and stabilization of BF-8.
- c) **Operation of SMS-1, BBM and RMP-1** for three more years is permitted till stabilization of BF-8 and SMS-3.
- d) **Sinter complex** : Production capacity – 9.772 MTPA - Earlier it was 9.235 MTPA

Additional investment of 273 crores was proposed for the following changes in the Existing Unit in the revised configuration:

S.no	Proposed Change in the existing units	Status
1	SMS-3 :Modification of 1x3 strand Beam Blank Caster into 1x3 strand Bloom-cum-Beam blank Caster of same capacity	Work to commence
2	SMS-3: Installation of 3x160t Argon Rinsing Unit (ARU)	Completed
3	Plate Mill : New Quenching & Tampering facility in Plate Mill.	Work to commence

Safety Mock Drills

Period: April-Sep-21

ENERGY MANAGEMENT DEPARTMENT
BHILAI STEEL PLANT

Date:11-12-2021

Sub:-Mock Drill conducted in Plate Mill Booster Station of EMD

Background

Gas leakage incident took place around 11:30 AM on 11/12/21 at Plate Mill Booster station while electrical persons checking P3 booster which was tripped. The day before, mechanical persons opened the Man-hole of P2 booster for clearing choking of booster outlet line. 3 employees of Electrical maintenance, namely Karan Marandi, Shri Yuvraj Verma and Shri Chelaram were assigned to check the functioning of P3 motor as there was a complaint of Booster tripping.

While checking, unaware of gas leakage from P2 Booster manhole, as it was not closed fully, Shri Yuvraj Verma and Shri Chelaram were exposed to gas and fainted at the site. Immediately, the other employee Shri Karan Marandi from gas leakage area, informed to Plate Mill Booster station control room Operators. Station operator Shri K K Choudhury, who was in the control room, declared emergency by blowing siren.

Then, control room another Operator Shri S Dixit informed to Energy Centre and in charges Shri RK Soni and Shri Mukhesh Khtwa. They rushed to the location for managing the emergency situation. The Energy Centre immediately conveyed the gas leakage incident to Gas Safety, plant Control, CISF, Civil Defence, SED, MMP and Fire Brigade. The concerned agencies were reached the incident spot immediately. The affected persons were shifted to Main Medical Post immediately by Ambulance. Thereafter, the gas leakage was arrested from inspection point by Gas Safety group and clearance was given for normalizing the area.

During the gas leakage incident, Fire Service personnel carried out the complete surveillance of the area. CISF personnel cordoned-off the entire area for restricting movement of people till clearance was given by Gas Safety. Chief Controller Shri Bidyut Kumar Sinha, GM(Opn) & DSO took control of the situation. Gas Safety group after rectification declared free from gas. Then the Chief Controller declared the emergency is over at 11:50 AM by blowing siren.

Details of events is in Annexure-I

Review meeting/Recommendations :

A review meeting was conducted by Shri VK Shrivastava ,CGM(EMD)on 11-12-2021 at 12 Noon and following observations/recommendations are noted:-

CISF-

- Stopped Video recording of incident by onlookers.
- Reached on time within 5 minutes of incident reported.
- Cordoning off area is not done to prevent heavy vehicle movement.

Fire Brigade

- Two vehicles reached the spot.
- Parking of vehicles done in a way , that ambulance way was obstructed.
- Entry of exit gate was blocked by Fire dept vehicle
- Handling of Gas affected person not done properly due to poor co-ordination among themselves.
- Providing of Oxygen mask to the injured person was delayed , while waiting for ambulance
- Fire Brigade personnel did not attend Post Mock Drill meeting

Ambulance

- Driver received the emergency call instead of responsible person at MMP & Ambulance arrived late.

- No personnel attended the Post Mock Drill meeting from OHS

SED

- Shri K C Agarwal from SED came late at Mock Drill and did not follow the route


Civil Defence

- Shri Swantantra Kumar from Civil Defence blocked the traffic movement as CISF did not cordoned off Road

Gas Safety

- Gas Safety vehicle arrived late at 11.40 AM

Conclusion: The Mock drill was carried out successfully and all agencies performed satisfactorily


Bidyut Kumar Sinha
GM(Oprn)& DSO
Energy Management Deptt.

All Concerned

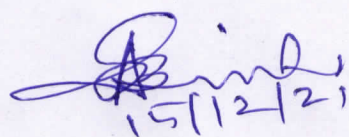
1. Dy. Director(IH & S)Durg,CG throughf Actg.CGM(Safety and Fire)
2. Actg. CGM (safety& Fire)
3. Dy. Commandant (plant), CISF
4. Sr. Dy Director I/c (NOHSC)
5. Chief Fire Officer , BSP
6. CGM(EMD)
7. Sr. TA to ED (works)
8. Sr. TA to Director I/c
9. Plant Control
10. DSO(EMD)

ENERGY MANAGEMENT DEPARTMENT

BHILAI STEEL PLANT

ANNEXURE : I

S.N.	SEQUENCE OF EVENTS	AGENCY INFORMED TIME	AGENCY ARRIVAL AT SPOT TIME
1	GAS LEAKAGE INCIDENT	11:30	
2	ENERGY CENTRE	11:30	
3	GAS SAFETY	11:33	11:40
4	Shri. V.K. Srivastav – CGM & HOD- (EMD)	11:34	
5	Shri. Bidyut Kumar Sinha – (GM I/c EMD & DSO)	11:33	11:35
6	Ms UV Subhadra – GM (Oprn)EMD	11:31	11:33
7	Shri. Ravi kumar Soni – Sr. Mgr(4MT Oprn) EMD	11:30	11:32
8	PLANT CONTROL	11:31	
9	CISF	11:31	
10	CISF (TEAM)		11:34
11	CIVIL DEFENCE		11:36
12	MMP	11:32	11:38
13	GAS VICTIM REMOVED		11:41
14	SED	11:33	11:56
15	FIRE BRIGADE	11:30	11:35
16	GAS SAFETY CLEARANCE		11:50


15/12/21

FLAG-B

Safety Training
Details

1. **गोपाली** **कर्मचारी** **कोष** **कर्मचारी** **कोष** **कोष**

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Safety Training For Non-Executives:

#	if k k k dk Zle dk ule	dk Zle l a	fnukd	# Participants Covered	Total # Participants.
1.	Behavior Based Safety	2	15.6.21	13	27
			23.6.21	14	
2.	Safety Proficiency In Plant Operation.	1	16.6.21	10	10
3.	Safety Proficiency In Mech. Maint. and Material Handling.	1	17.6.21	13	13
4	Safety Proficiency In Elect. Maint. and Operation.	1	21.6.21	11	11
5.	Gas Safety In Steel Industry.	1	22.6.21	09	09
6.	Achieving Awareness In Occupational Health & First Aid	1	24.6.21	10	10
7	Safety Management For C/Man & Supervisor.	1	25.6.21	11	11
8	Chemical Safety For COCCD	1	28.06.21	13	13
Total Number of Programme Conducted		9	Total Participants =		104

Safety Training For Contractor Workers:

S.NO	Module	# Prog.	Date	#Participants	#Total
1.	Safety Training For Contractor Workers.	1	18.6.21	16	191
2	Refresher Safety Training at Works Area For Contractor Workers.	15	19,21,22,23,26,28,29	175	
Total Number of Programme Conducted			Total Participants =		191

*TOTAL PROGRAMS (For REG. Employees) ORGANISED IN JUNE.-2021: **09** (All For Non-Exe.)

*TOTAL PARTICIPANTS (For REG. Employees) ATTENDED IN JUNE.-2021: **104** (All Non-Exe.)

*Customized Safety Trg. For Contractor JUNE-2021: #Prog: **1**, # Participants: **16**

* Refresher Safety Trg. For Contractor Workers at Works Area In JUNE-2021: #Prog: **15**, # Participants: **175**

Safety Training Status of Reg. Employees at a Glance:

YEAR	No of programmes		No. of employees Covered		Total No. of Employees Covered
	Exe.	Non Exe	Exe.	Non Exe	
Fin.Year-2021-22	0	9	0	104	104
Cal. Year-2021	15	41	347	920	1267

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Safety Training For Non-Executives:

#	i f' k k k dk Zl a dk	dk Zl a l a	fnukd	#Parti cipant	Total # Participants.
1	Behavior Based Safety	2	01.7.21 19.7.21	1 1	27
2	Safety Proficiency In	2	05.7.21 26.7.21	1 1	26
3	Safety	1	06.7.21	1	12
4	Safety	1	07.7.21	1	14
5	Gas Safety In	1	08.7.21	1	17
6	Achieving Awareness In	2	13.7.21 20.7.21	1 1	26
7	Safety	1	27.7.21	1	16
8	Safety In Traffic	1	14.7.21	1	18
9	Safety Training	1	02.7.21	1	17
1	Safety Training	4	6 th to 9 th	1	100
1	Safety Training	8	12 th to 20 th	1	180
Total Num ber		24	Total Participants =		453

Safety Training For Executives:

S.NO	Module	# Prog	D	#Participant	#Total
1.	Electrical	1	15.7.	1	137
2.	Gas Safety &	1	22.7.	1	
3.	Safety Training	2	6 th &	5	
4.	Leadership	1	8 th to 10 th	2	
5.	Train The	1	13 th to 17 th	1	
6.	Train The	1	19 th to 23 rd	1	
7.	Train The Trainer on	2	26 th to 29 th to 31 st	0 0	
Total		9	Total		137

Safety Training For Contractor Workers:

S.NO	Module	# Prog.	D a	#Participa nt	#Total
1.	Safety Training For Contractor	2	09.7.21 & 23.7.21	2 5	297
2	Safety Trainin g For	4	3 rd , 10 th , 17 th & 24 th	5 5	
3.	Safety Training On Human Factors	8	21 st , 22 nd , 23 rd , 24 th , , 26 th , 27 th	2 1 7	
Total Number of Programme Conducted		14	Total Participa nts =		297

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Safety Training For Non-Executives:

S.NO	if k k k Zl e dk ule	dk Zl e l a	fnukd	#Participant Covered	Total # Participants.
1.	Behavior Based Safety	3	02.8.21	28	59
			18.8.21	14	
			23.8.21	17	
2.	Safety Proficiency In Plant Operation.	2	03.8.21	29	47
			24.8.21	18	
3.	Safety Proficiency In Mech. Maint. and Material Handling.	1	04.8.21	26	26
4.	Safety Proficiency In Elect. Maint. and Operation.	1	09.8.21	20	20
5.	Gas Safety In Steel Industry.	1	10.8.21	22	22
6.	Achieving Awareness In Occupational Health & First Aid	2	17.8.21	19	37
			25.8.21	18	
7.	Safety Management For C/Man & Supervisor.	1	16.8.21	17	17
8.	Defensive Driving.	1	10.8.21	28	28
9.	Safety In Traffic Operation (For T & D)	1	11.8.21	16	16
10.	Safety Training on Human Factors.	6	16.8.21	26	146
			17.8.21	22	
			18.8.21	25	
			19.8.21	24	
			20.8.21	28	
			21.8.21	21	
Total Number of Programme Conducted		19	Total Participants =		418

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Behavior Based Safety.	2	05.08.21	21	39
			12.08.21	18	
2.	Statutory Requirements In Safety.	1	26.08.21	23	23
3.	Safety Training On Defensive Driving.	1	09.08.21	25	25
4	Leadership Training.	3	2.8.21 to 4.8.21 (3 Days)	23	74
			5.8.21 to 7.8.21 (3 Days)	28	

			12.8.21 to 14.8.21 (3 Days)	23	
4.	Train The Trainer on "Defensive Driving"	1	19.8.21 to 21.8.21 (3 Days)	8	8
5.	Train The Trainer on "Confined Space"	2	23.8.21 to 25.8.21 (3 Days)	6	11
			26.8.21 to 28.8.21 (3 Days)	5	
6.	Bow-Tie Analysis	2	20.8.21 to 21.8.21 (2Days)	18	39
			23.8.21 to 24.8.21 (2Days)	21	
Total Number of Programme Conducted		12	Total Participants =		219

Safety Training For Contractor Workers:

S.NO	Module	# Prog.	Date	#Participant	TOTAL
1.	Safety Training For Contractor Workers.	3	06.08.21	33	72
			13.08.21	22	
			20.08.21	17	
2	Safety Training For Contractor Workers. (Shunting Staff of T & D).	3	07.08.21	15	43
			21.08.21	15	
			28.08.21	13	
3.	Safety Training On Human Factors.	6	23.08.21	24	134
			24.08.21	22	
			25.08.21	22	
			26.08.21	23	
			27.08.21	23	
			28.08.21	20	
Total Number of Programme Conducted		12	Total Participants =		249

Summary:

***TOTAL PROGRAMS (For Regular Employees) ORGANISED IN AUGUST.-2021: 31 (19 NE + 12 Exe.)**

***TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN AUGUST-2021 : 637 (418 NE & 219 Exe.)**

***Customized Safety Trg. For Contract Workers AUGUST-2021: # Prog: 12 , # Participants: 249**

*** Refresher Safety Trg. For Contract Workers at Works Area in AUG.2021: # Prog: 35, # Participants: 594**

Safety Training Status of Reg. Employees at a Glance:

YEAR	No of programmes		No. of employees Covered		Total No. of Employees Covered
	Exe.	Non Exe	Exe.	Non Exe	
Fin.Year-2021-22 (1.4.21 to 30.8.21)	21	52	356	975	1331
Cal. Year-2021 (1.1.21 to 30.8.21)	36	84	703	1791	2494

**लोक वृहत् केंद्रों में
सुरक्षा प्रशिक्षण कार्यक्रम**

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Safety Training For Non-Executives:

S.NO	प्रशिक्षण कार्यक्रम	दिनांक	मूलक	#Participant Covered	Total # Participants.
1.	Behavior Based Safety	2	01.9.21 27.9.21	24 26	50
2.	Safety Proficiency In Mech. Maint. and Material Handling.	1	13.9.21	22	22
3.	Safety In Traffic Operation (For T & D)	1	15.9.21	11	11
4.	Gas Safety In Steel Industry.	1	16.9.21	21	21
5.	Safety Training For Trade Apprentice	2	24.9.21 25.9.21	75 75	150
6.	Defensive Driving	2	06.9.21 07.9.21	27 23	50
7.	Train The Trainer on "Defensive Driving"	1	20.9.21 to 22.9.21	06	06
8.	Safety Training on Human Factors.	8	09.9.21 10.9.21 11.9.21 13.9.21 14.9.21 15.9.21 16.6.21 18.9.21	25 25 20 23 22 25 15 21	176
Total Number of Programme Conducted		18	Total Participants =		486

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Interaction For Safety Encouragement & Engagement.(i-SEE)	5	13.09.21 14.09.21 15.09.21 16.09.21 18.09.21	27 22 27 25 27	128
2.	Train The Trainer on i-SEE	2	6.9.21 to 8.9.21 (3 Days) 9.9.21 to 11.9.21 (3 Days)	7 7	14
3.	Leadership Training.	3	2.9.21 to 4.9.21 (3 Days) 6.9.21 to 8.9.21 (3 Days)	22 25	69

			9.9.21 to 11.9.21 (3 Days)	22	
4.	Incident Investigation	2	27.9.21 to 28.9.21 (2 Days)	29	55
			29.9.21 to 30.9.21 (2 Days)	26	
5.	Bow-Tie Analysis	2	20.9.21 to 21.9.21 (2Days)	16	42
			24.9.21 to 25.9.21 (2Days)	26	
Total Number of Programme Conducted		14	Total Participants =		308

Safety Training For Contractor Workers:

S.NO	Module	# Prog.	Date	#Participant	TOTAL
1.	Safety Training For Contractor Workers. (Shunting Staff of T & D).	2	14.09.21	11	22
			28.09.21	11	
2.	Safety Training On Human Factors.	6	20.09.21	23	143
			21.09.21	20	
			22.09.21	25	
			23.09.21	26	
			24.09.21	25	
			25.09.21	24	
Total Number of Programme Conducted		8	Total Participants =		165

Summary:

***TOTAL PROGRAMS (For Regular Employees) ORGANISED IN SEPTEMBER.-2021: 32 (18 NE + 14 Exe.)**

***TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN AUGUST-2021 : 794 (486 NE & 308 Exe.)**

***Customized Safety Trg. For Contract Workers SEPTEMBER-2021: # Prog: 8 , # Participants: 165**

*** Refresher Safety Trg. For Contract Workers at Works Area in SEPT.2021: # Prog: 17 Participants: 236**

Safety Training Status of Reg. Employees at a Glance:

YEAR	No of programmes		No. of employees Covered		Total No. of Employees Covered
	Exe.	Non Exe	Exe.	Non Exe	
Fin.Year-2021-22 (1.4.21 to 30.9.21)	35	70	664	1461	2125
Cal. Year-2021 (1.1.21 to 30.9.21)	50	102	1011	2277	3288

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Safety Training For Non-Executives:

S.NO	if' k k k d k Z l e d k u k e	dk Z l e l a	fnukd	#Participant Covered	Total # Participants.
1.	Behavior Based Safety	2	01.10.21 22.10.21	24 20	44
2.	Safety Proficiency In Mech. Maint. and Material Handling.	1	05.10.21	17	17
3.	Safety Proficiency In Elect. Maint. and Operation.	1	06.10.21	13	13
4.	Safety In Traffic Operation (For T & D)	1	20.10.21	14	14
5.	Gas Safety In Steel Industry.	1	08.10.21	11	11
6.	Safety Proficiency In Plant Operation	2	04.10.21 18.10.21	16 24	40
7.	Achieving Awareness In Occupational Health & First Aid.	1	11.10.21	23	23
8.	Safety Management For C/Man & Supervisor.	1	12.10.21	30	30
9.	Safety In Material Handling & Rigging Practices.	1	19.10.21	22	22
10.	Safety Training on Human Factors.	6	18.10.21 19.10.21 20.10.21 21.10.21 22.10.21 23.10.21	24 27 28 34 25 22	160
Total Number of Programme Conducted		17	Total Participants =		374

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Defensive Driving	1	01.10.21	26	26
2.	Behavior Based Safety.	1	07.10.21	19	19
3.	DSO's Role & Responsibility.	1	21.10.21	20	20
4.	Leadership Training.	2	04.10.21 to 06.10.21 (3Days) 07.10.21 to 09.10.21 (3Days)	30 28	58
5.	Train The Trainer On "High Hazard Process"	2	18.10.21 to 20.10.21 (3Days) 21.10.21 to 23.10.21 (3Days)	04 07	11
6.	Train The Trainer On "Electrical Safety"	2	25.10.21 to 27.10.21 (3Days)	07	12

			28.10.21 to 30.10.21 (3Days)	05	
Total Number of Programme Conducted		9	Total Participants =		146

Safety Training For Contractor Workers:

S.NO	Module	# Prog.	Date	#Participant	TOTAL
1.	Safety Training For Contractor Workers. (Shunting Staff of T & D).	2	09.10.21	14	28
			23.10.21	14	
2.	Safety Training On Human Factors.	6	25.10.21	28	158
			26.10.21	30	
			27.10.21	25	
			28.10.21	28	
			29.10.21	28	
			30.10.21	19	
Total Number of Programme Conducted		8	Total Participants =		186

Summary:

***TOTAL PROGRAMS (For Regular Employees) ORGANISED IN OCTOBER.-2021: 26 (17 NE + 9 Exe.)**

***TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN OCTOBER-2021 : 520 (374 NE & 146 Exe.)**

***Customized Safety Trg. For Contract Workers OCTOBER-2021: # Prog: 8 , # Participants: 186**

*** Refresher Safety Trg. For Contract Workers at Works Area in OCT.2021: # Prog: 32
Participants: 556**

Safety Training Status of Reg. Employees at a Glance:

YEAR	No of programmes		No. of employees Covered		Total No. of Employees Covered
	Exe.	Non Exe	Exe.	Non Exe	
Fin.Year-2021-22 (1.4.21 to 30.10.21)	44	87	810	1835	2645
Cal. Year-2021 (1.1.21 to 30.10.21)	59	119	1157	2651	3808

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ಫಿಲ್ಮಿಂಗ್ ಲಿಗ್ಗು**

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ಫಿಲ್ಮಿಂಗ್ %30-11-21

ಫಿಲ್ಮಿಂಗ್ % efl d ಲಿಗ್ಗು ಫಿಲ್ಮಿಂಗ್ ಫಿಲ್ಮಿಂಗ್ ನವೆಂಬರ್ 2021

Safety Training For Non-Executives:

S.NO	ಫಿಲ್ಮಿಂಗ್ ಫಿಲ್ಮಿಂಗ್ ಫಿಲ್ಮಿಂಗ್	ಫಿಲ್ಮಿಂಗ್ ಫಿಲ್ಮಿಂಗ್	ಫಿಲ್ಮಿಂಗ್	#Participant Covered	Total # Participants.
1.	Behavior Based Safety	1	08.11.21	22	22
2.	Safety Proficiency In Mech. Maint. and Material Handling.	1	12.11.21	22	22
3.	Safety Proficiency In Elect. Maint. and Operation.	1	13.11.21	17	17
4.	Safety In Traffic Operation (For T & D)	1	17.11.21	13	13
5.	Gas Safety In Steel Industry.	1	16.11.21	19	19
6.	Safety Proficiency In Plant Operation	1	09.11.21	14	14
7.	Achieving Awareness In Occupational Health & First Aid.	1	15.11.21	21	21
8	Safety Training on Human Factors.	10	08.11.21	28	269
			09.11.21	27	
			10.11.21	28	
			11.11.21	26	
			12.11.21	27	
			13.11.21	32	
			15.11.21	26	
			16.11.21	26	
			17.11.21	15	
			18.11.21	34	
9	Train The Trainer on “Human Factor”	2	22.11.21 to 24.11.21(3Days)	7	12
			25.11.21 to 27.11.21(3Days)	5	
10	Intensified Safety Training For RSM During CR	9	16.11.21	22	204
			17.11.21	22	
			18.11.21	19	
			19.11.21	22	
			20.11.21	23	
			22.11.21	19	
			23.11.21	26	
			24.11.21	26	
			25.11.21	25	
11	Safety Training For Trade Apprentice	1	26.11.21	75	75
12	Defensive Driving	2	29.11.21	29	56

			30.11.21	27	
Total Number of Programme Conducted		31	Total Participants =		744

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Behavior Based Safety.	1	11.11.21	19	19
2.	Interaction On Safety Encouragement & Engagement. (i-see)	2	19.11.21	29	50
			20.11.21	21	
3.	Goal & Role of Safety Professionals.	1	15.11.21 to 16.11.21 (2Days)	24	24
4.	Leadership Training.	2	08.11.21 to 10.11.21 (3Days)	23	50
			11.11.21 to 13.11.21 (3Days)	27	
5.	Train The Trainer On “High Hazard Process”	2	22.11.21 to 24.11.21 (3Days)	05	09
			25.11.21 to 27.10.21 (3Days)	04	
Total Number of Programme Conducted		8	Total Participants =		152

Safety Training For Contractor Workers:

S.NO	Module	# Prog.	Date	#Participant	TOTAL
1.	Safety Training For Contractor Workers. (Shunting Staff of T & D).	1	20.11.21	13	13
2.	Safety Training For Contracor Workers (Crane Operators)	1	18.11.21	25	25
2.	Safety Training On Human Factors.	5	19.11.21	27	127
			20.11.21	28	
			22.11.21	22	
			23.11.21	28	
			24.11.21	22	
Total Number of Programme Conducted		7	Total Participants =		165

Summary:

***TOTAL PROGRAMS (For Regular Employees) ORGANISED IN NOVEMBER.-2021: 39 (31 NE + 8 Exe.)**

***TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN NOVEMBER-2021 : 896 (744 NE & 152 Exe.)**

***Customized Safety Trg. For Contract Workers NOVEMBER -2021: # Prog: 7 , # Participants: 165**

*** Refresher Safety Trg. For Contract Workers at Works Area in NOV.2021: # Prog: 13 Participants: 174**

Safety Training Status of Reg. Employees at a Glance:

YEAR	No of programmes		No. of employees Covered		Total No. of Employees Covered
	Exe.	Non Exe	Exe.	Non Exe	
Fin.Year-2021-22 (1.4.21 to 30.11.21)	52	118	962	2579	3541
Cal. Year-2021 (1.1.21 to 30.11.21)	67	150	1309	3395	4704

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Safety Training For Non-Executives:

S.NO	if kkk dk ZL dk ule	dk ZL l a	fnukd	#Participant Covered	Total # Participants.
1.	Behavior Based Safety.	1	01.12.21	24	24
2.	Safety Proficiency In Plant Operation	1	02.12.21	15	15
3.	Safety Proficiency In Mech. Maint. and Material Handling.	1	03.12.21	20	20
4.	Safety Proficiency In Elect. Maint. and Operation.	1	04.12.21	13	13
5.	Achieving Awareness In Occupational Health & First Aid.	1	06.12.21	20	20
6.	Gas Safety In Steel Industries.	1	07.12.21	24	24
7.	Safety In Traffic Operation (For T & D)	1	08.12.21	12	12
8	Safety Training on Human Factors.	9	06.12.21	28	226
			07.12.21	27	
			08.12.21	22	
			09.12.21	26	
			10.12.21	25	
			11.12.21	28	
			13.12.21	19	
			14.12.21	24	
9	Intensified Safety Training For BRM During CR	4	03.12.21	15	67
			04.12.21	20	
			06.12.21	16	
			07.12.21	16	
Total Number of Programme Conducted		20	Total Participants =		421

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Leadership Training.	1	02.12.21 to 04.12.21 (3Days)	21	21
2.	Train The Trainer On "Defensive Driving"	1	06.12.21 to 08.12.21 (3Days)	10	10
3.	Incident Investigation.	1	09.12.21 to 10.12.21 (2Days)	22	22

4	Audit Training For Executives	1	11.12.21	1	23
5.	Train The Trainer On “Working at Height”	2	13.12.21 to 15.12.21 (3Days)	7	14
			16.12.21 to 18.12.21 (3Days)	7	
Total Number of Programme Conducted		6	Total Participants =		90

Safety Training For Contractor Workers:

S.NO	Module	# Prog.	Date	#Participant	TOTAL
1.	Safety Training On Human Factors.	5	16.12.21	30	135
			17.12.21	29	
			18.12.21	26	
			20.12.21	20	
			21.12.21	30	
Total Number of Programme Conducted		5	Total Participants =		135

Summary:

*TOTAL PROGRAMS (For Regular Employees) ORGANISED IN DECEMBER.-2021: 26 (20 NE + 6 Exe.)

*TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN DECEMBER-2021 : 511 (421 NE & 90 Exe.)

* Safety Trg. For Contractor Workers in DECEMBER -2021: # Prog: 5 , # Participants: 135

* Refresher Safety Trg. For Contract Workers at Works Area in DEC.2021: # Prog: ..
Participants: ...

Safety Training Status of Reg. Employees at a Glance:

YEAR	No of programmes		No. of employees Covered		Total No. of Employees Covered
	Exe.	Non Exe	Exe.	Non Exe	
Fin.Year-2021-22 (1.4.21 to 31.12.21)	58	138	1052	3000	4052
Cal. Year-2021 (1.1.21 to 31.12.21)	73	170	1399	3816	5215

FLAG-C

Corporate Environment Responsibility

Status As On December2021

Activity / Projects being carried out through Budget for ESC (Enterprise Social Commitment)/CER (Corporate Environment Responsibility)

(Status as on Dec. 2021)

Ministry of Environment Forests & Climate change (MoEFCC) has granted Environmental Clearance (EC) vide MoEFCC F.No.J-11011/28/2007-IA-II(I) dated 24.05.2019 for “Revised Configuration of Modernization-cum-Expansion of 7.0 MTPA Bhilai Steel Plant”. The following schemes are to be implemented against Corporate Environment Responsibility (CER) identified during public hearing a value of approx 232.25 Lakhs. For implementation of the CER schemes, management has accorded approval for Rs. 229.75 lakhs under the capital budget.

S. No.	SAIL Plant /Unit	Location	Name of Project/Activity (Brief detail of the project, duration)	Approx. Amount earmarked for the project	Status (as on Dec. 2021)
1.	BSP	Selud, Durg	I. New Bore well fitted with Solar operated pump with storage tank at three places to be provided.	15.00	Digging of 03 nos. bore-wells is completed in village Selud, .Bore wells will to be fitted with solar pumps through CREDA. Extension of time is granted to complete the work.
			II. Four Seater Sulabh Shauchalya at Bazar Chowk to be constructed.	6.00	Completed. (Image attached)
			III. Sports equipments for boys and girls to be provided.	0.50	Completed

Village - Selud (Status as on Dec. 2021)



Public toilet
Bazaar Chowk .(side by Gram Panchayat office)

S.No .	SAIL Plant/ Unit	Locati on	Name of Project/Activity (Brief detail of the project, duration)	Approx.Amou nt earmarked for the project	Status (as on Dec. 2021)
2.	BSP	Khapri (Kutel abhata),Durg	I. Construction of Boundary wall of Panchayat Bhawan along with tree plantation all around the periphery .	10.00	Completed.
			II. New Bore wells at 2 locations fitted with Solar operated Pumps to be provided.	10.00	Digging of 02 nos. bore-wells is completed in village Khapri . Bore wells will to be fitted with solar pumps through CREDA..
			III. Two extra rooms in Govt. Primary School to be constructed.	10.00	Completed.
			IV. Dustbin for 10 villages to be provided	0.50	Completed
			V. Beautification and tree plantation around Shitala Talab to be provided.	2.00	Completed

S.No.	SAIL Plant/ Unit	Location	Name of Project/Activity (Brief detail of the project, duration)	Approx.Amount earmarked for the project	Status (as on Dec. 2021)
3.	BSP	Dumardih ,Durg	I. Service road from main road cremation ground approx..700 meters to be cemented	10.00	Construction of concrete road to cremation ground At village Dumardih 50% of road work completed. Extension of time ugranted to complete the work.(Image attached)
			II. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Providing and fixing GI pipe line for drinking water not started.
4.	BSP	Pauwara,Durg	I. Sanitary Pad Machine women group to be provided	3.00	Tendering process for the same in progress. Delay due to COVID and lockdown.
			II. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Work not started Extension of time is granted to complete the work.
			III. Tree plantation at new talab to be provided	1.00	Completed
			IV. Funds to be provided Sarpanch for cleaning of Wells with supervision / monitoring by BSP.	1.00	Completed
			V. Syntax tank with pump to		

Village – Dumardih Status (as on Dec. 2021)



Construction of concrete road to cremation ground

S.No.	SAIL Plant/ Unit	Location	Name of Project/Activity (Brief detail of the project, duration)	Approx.Amount earmarked for the project	Status (as on Dec. 2021)
5.	BSP	Muskan ,Durg	I. Garage for School Bus at Muskan School to be constructed.	1.00	Completed.
6.	BSP	Patora, Durg	I. Four Seater Sulabh Shauchalya at Govt. Middle school for boys to be constructed.	3.00	Work completed. (Image attached)
			II. Boundary wall at high school of length 165 meter(Cancelled) CC road to be constructed.	15.00	CC road Work not started Extension of time up to 13.11.2021 is granted to complete the work. Extra extension of time granted with penalty.
7.	BSP	Dhuara bhatta, Durg	I. Four seater Sulabh Shauchalya at Khadan Talab for both men and women to be constructed.	12.00	Completed. (Image attached)
			II. Additional 2 class rooms at High school premise to be constructed.	10.00	Completed.
			III. Boundary wall of approx. - 380 meters to be constructed at high school	20.00	Completed.

Village- Dhaurabhata (Status as on Dec. 2021)



Construction of Four seater Sulabh Shauchalya at Khadan Talab Completed.



**Construction of separate toilet for boys
Completed.**



**Construction of separate toilet for girls
Completed**

Village -Patora (Status as on Dec. 2021)



Four Seater Sulabh Shauchalya at Govt. Middle school for boys .(completed)

S.No.	SAIL Plant/ Unit	Location	Name of Project/Activity (Brief detail of the project, duration)	Approx. Amount earmarked for the project	Status (as on Dec. 2021)
8.	BSP	Mahakakala-Mudpaar, Durg	I. Pipeline for drinking water pipeline to be extended further by 1000 m approx. meters in ward no 01,06,04	7.00	GI pipeline work 80% completed. Work is in progress . (Image attached)
			II. C.C. road to be constructed at ward no 05 for approx. 250 meters.	4.00	Concrete road infront of school & panchayat completed.
			III. C.C. road to be constructed at ward no 04 for approx. 250 meters.	4.00	50% work completed.
			IV. Four seater Sulabh Shauchalya for boys and girls to be constructed.	12.00	Completed. (Image attached)
9.	BSP	Aundhi,Durg	I. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Completed.
			II. C.C. road to be constructed from Ward No 14 Ward No 20 Will be taken up through CSR department of BSP	10.00	Completed.
10.	BSP	Pahandor, Durg	I. New Bore wells at required location fitted with solar operated Pumps to be provided.	10.00	Two Boring was done.
			II. Pipeline for drinking water		Work is in progress

Status of CER Projects MahakakalaAs on Dec 2021



Pipeline work for drinking water (**Mahakakala**)



Toilet for school students 1 for boys and 1 for girls: Completed. (**Mahakakala**)

S.No.	SAIL Plant/ Unit	Location	Name of Project/Activity (Brief detail of the project, duration)	Approx.Amount earmarked for the project	Status (as on Dec. 2021)
11.	BSP	Bhilai, Durg	I. One E-rickshaw to be provided facilitate the plantation activities	3.00	Completed
			II. One Power driven portable drilling machine facilitate the plantation activities	1.00	Completed
12.	BSP	Mahakakhurd, Durg	I. New Bore well fitted with Solar operated pump with storage tank at one place to be provided	5.00	Completed.
			II. Four seater Sulabh Shauchalya for men and women to be constructed	12.00	Completed. (Image attached)
			Total	232.25	

Village-Mahakakhurd (Status of CER Projects As on Dec. 2021)



Combined Public toilet (Both men & women) Completed:
Mahaka khurd

Note :

Bore wells to be fitted with solar pumps through CREDA. Value approx Rs. 45,44,000

PO of value Rs 46,44,085.3 has been placed for Construction of Sulabh Shauchalya at 6 locations.

FLAG-D



CHHATTISGARH ENVIRONMENT CONSERVATION BOARD

PARYAVAS BHAWAN, NORTH BLOCK, SECTOR -19,

ATAL NAGAR, RAIPUR (C.G.) 492002

E-mail : hocecb@gmail.com, Ph. No. 0771-2512220

No. 7022/HSMD/HO/CECB/2019

Raipur, Date 18/11/2019

To,

**M/s Bhilai Steel Plant,
Ispat Bhawan, Bhilai,
Distt. - Durg (C.G.)**

Sub:- Renewal of authorization under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

Ref :- 1. Grant of authorization No. 956/HO/HSMD/CECB/2018 Dated 17/04/2018.
2. Your Online application no. 2531743 dated 11/03/2019 & Subsequent Correspondence ending dated 03/04/2019.

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The authorization under the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 is hereby renewed for the period of **Five Years** i.e. from **17/04/2019 to 16/04/2024**. The details of authorization along with terms & conditions are given as per below:-

FORM 2 **[See rule 6 (2)]**

GRANT OF AMENDMENT AND SUBSEQUENT RENEWAL OF AUTHORIZATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization **278/HO/HSMD/CECB/ATAL NAGAR, RAIPUR.**
2. Reference of Online application no. **2531743** dated **11/03/2019** & Subsequent Correspondence ending dated **03/04/2019.**
3. The operator of facility i.e. occupier **M/s Bhilai Steel Plant, Ispat Bhawan, Bhilai, Distt. - Durg (C.G.)** is hereby granted an authorization based on the signed inspection report from RO for generation, collection, storage, transport, treatment, reuse, recycle and disposal of hazardous wastes in the premises situated at **Ispat Bhawan, Bhilai, Distt. - Durg (C.G.).**

Detail of Authorisation

Sl.No.	Category of Hazardous Waste as per the Schedules I, II and III of these rules	Authorised mode of disposal or recycling or utilization or co-processing etc.	Quantity (Tonnes/Annum)
1.	Benzol acid sludge / Acid Tar Sludge (Schedule-I, Cat.No.- 3.3)	Incineration in the CTSDf of other state / co-processing in cement kiln	2500 T/Year
2.	Tar storage tank residue (Schedule-I, Cat.No.- 13.5)	To be sold to authorized reprocessor / Incineration in the CTSDf / co-processing in cement kiln	1500 T/Year
3.	Decanter tank tar sludge (Schedule-I, Cat.No.- 13.4)	To be sold to authorized reprocessor / Incineration in the CTSDf / co-processing in cement kiln	4000 T/Year
4.	Used or spent oil (Schedule-I, Cat.No.- 5.1)	To be sold to authorized recyclers	500 T/Year
5.	Spent solvents (Schedule-I, Cat.No.- 20.2)	To be sold to authorized recyclers	500 T/Year
6.	Oil and grease skimming (Schedule-I, Cat.No.- 35.4)	To be sold to authorized recyclers	100 T/Year
7.	Chemical sludge from waste water treatment (Schedule-I, Cat.No.- 35.3)	Reuse in the coke making process / Incineration in the CTSDf / co-processing in cement kiln	2500 T/Year
8.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes (Schedule-I, Cat.No.- 33.1)	To be sold to authorized recyclers	275 T/Year
9.	Process acidic residue, filter cake, dust (Schedule-I, Cat.No.- 17.1)	To be disposed in to CTSDf	500 T/Year
10.	Copper Compound (Schedule II, A 66)	To be sold to authorized recyclers	400 T/Year
11.	Lead and Lead Compounds (Schedule II, A 5)	To be sold to authorized recyclers	50 T/Year
12.	Asbestos (Schedule II B 1)	To be disposed in to CTSDf	80 T/Year

(1) The authorization shall be valid for the period of **Five Years** i.e. from **17/04/2019 to 16/04/2024**.

(2) The authorization is subject to the following conditions:

TERMS & CONDITIONS OF AUTHORIZATION

1. The authorization shall comply with the provisions of Environment (protection) Act, 1986 and the rules made there-under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by the Chhattisgarh Environment Conservation Board.
3. The person authorized shall not rent, lend, sell transfer or otherwise transport the hazardous wastes without obtaining prior permission of the Chhattisgarh Environment Conservation Board.
4. Any unauthorized change in personnel, equipment, or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
8. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
9. Industry shall prepare emergency response plan (ERP) and ensure implementation the same at the event of any accident occurs due to handling and transporting of hazardous waste as per CPCB guideline.
10. The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per standard operating procedures/guidelines issued by CPCB from time to time.
11. An application for the renewal of an authorisation shall be made three months before the expiry of authorization as laid down in the Rules.
12. Annual return in form IV shall be filed by June 30th for the period ending 31st March of the last financial year.
13. The wastes shall be collected and stored properly with adequate safety measures as per rule.
14. Authorized person shall comply with the provisions of rule 17, 18 and 19 for packing, labeling and transport of Hazardous Waste.
15. The authorized person should maintain the record of Hazardous Waste as per Form-3 of Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
16. The occupier shall follow the guidelines (if any) issued by Central Pollution Control Board or MoEF & CC for management of Hazardous waste from time to time.
17. The industry shall display data outside factory gate on quantity and nature of hazardous chemicals and wastes being used in the plant, water and air emissions and solid wastes generated within the factory premises.
18. Industry shall ensure disposal of hazardous waste generated during the production process through authorized recycler/Co-processing in cement plant/captive disposal facility/arrangement for sharing of authorized disposal facility/common TSDF as per rule. Failing which this authorization shall be treated as cancelled and appropriate action would be initiated against the industry.

19. Industry shall create new website for Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and upload all the information above the waste in the website.
20. The waste must be given thermal/biological/physico-chemical treatment; the waste should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
21. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.
22. An on-site storage of the hazardous wastes for a maximum period of 90 days should be provided and it shall be ensured that there is no leakage or seepage from the surrounding walls or bottom. The site should be covered and properly protected to prevent the entry of rain water in storage area.
23. At least four nos. of peizometric points should be provided around the storage site of H.W. to monitor the leaching of the waste and monitoring report shall be submitted to the board in every six months. Each type of waste shall be stored in a separate storage cell.
24. The discarded containers of Hazardous waste and chemical shall not be used for storage of food grade products. At the storage site "Hazardous waste storage site & danger signboard" shall be provided with all safety devices.
25. In the event of any accident due to handling of hazardous waste the authorized person must inform immediately to the Concerned Regional Office and H.O., Atal Nagar, Raipur of the Board by fax/telephone or by E-mail about the incident and details report be sent in form no. 11 [see rule 22].
26. The authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
27. Used batteries shall be disposed of as per the Batteries (Management & Handling) Rules, 2001.
28. Board reserves the right to cancel/amend the above condition and add new conditions as and when deemed necessary.

Member Secretary
C.G. Environment Conservation Board
Atal Nagar, Raipur (C.G.)

Endt. No. 7023/H.O./HSMD/CECB/2019 Atal Nagar, Raipur, Date 18/11/2019

Copy to :- Regional Officer, Regional office, Chhattisgarh Environment Conservation Board, Durg (C.G.) please ensure compliance and report, if any condition/conditions are violated by the industry.

Sd/-
Member Secretary
C.G. Environment Conservation Board
Atal Nagar, Raipur (C.G.)

BHILAI STEEL PLANT
April 2021 to Sep. 2021

FLAG E

E-1

Stack emission

BHILAI STEEL PLANT
April 2021 to Sep. 2021

Month- April 2021

A.		Stack emission									
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diameter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (250mg/Nm3)	NO _x (150mg/Nm 3)	CO (Norm : 1%)
Blast Furnace											
BF-5 (Process)	Stoves	60	3.5	GCP (Scrub ber)	07 Apr, 09:45-10:50 (65 Minute)	2653	116185	19.15	112.00	135.20	0.78 %V/V
BF-7 (Process)	Stoves			--do--	26 Apr, 10:00-11:10 (70 Minute)	3255	98847	20.89	114.60	136.00	0.77 %V/V
BF-7 (Space dedusting)				GCP (Scrub ber)	09 Apr, 10:45-11:25 (40 Minute)	-	-	49.18	-	-	
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	06 Apr, 10:45-11:05 (20 Minute)	2280	103581	49.01	95.30		-
LF-2	Ladle Furnace	50	1.5	Bag Filter	19 Apr, 09:45-10:30 (45 Minute)	3480	104910	25.21	73.80		-
A.		Stack emission									
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diamete r of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50 mg/Nm3)	SO ₂ (Norm:800 mg/Nm3)	NO _x (Norm:500 mg/Nm3)	CO (Norm: 3 kg/T of Coke)

BHILAI STEEL PLANT
April 2021 to Sep. 2021

Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	27 Apr, 09:40-10:45 (65 Minute)	659	115583	45.20	140.00	158.90	2.63 Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	17 Apr, 09:15-10:15 (60 Minute)	715	114865	47.82	115.20	126.30	2.71Kg/T coke
Battery No. 4	Battery	100	3.5	Nil	17 Apr, 10:30-11:30 (60 Minute)	670	118186	46.09	108.40	118.00	2.66 Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	24 Apr, 09:15-10:15 (60 Minute)	860	114857	42.42	95.60	202.40	2.58 Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	24 Apr, 10:30-11:30 (60 Minute)	860	115501	44.14	94.80	164.00	2.67 Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	01 Apr, 09:45-10:50 (65 Minute)	1789	212899	48.74	146.20	154.50	2.52 Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	02 Apr, 10:00-11:00 (60 Minute)	1729	193741	44.32	99.90	245.00	2.64 Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorp tion Tower	13 Apr, 10:15-10:50 (35 Minute)	84	10195	-	2.340 Kg/T H ₂ SO ₄	-	-
A.		Stack emission									
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diam eter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring(duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg/N m3)	SO ₂ (Norm:600 mg/Nm3)	NO _x (Norm:60 0mg/Nm3)	CO
Sinter Plant											
SP-2											
SP-2 (M/c-1)	Sintering Machine	100	6	Multi-Cyclone	20 Apr, 09:05-09:45 (40 Minute)	6010	246829	42.05	93.40	-	-
SP-2 (M/c-2)	Sintering Machine	100	6	Multi-Cyclone	20 Apr, 10:00-10:40 (40 Minute)	6010	245475	47.35	87.90	-	-
SP-2 (M/c-3)	Sintering Machine	100	6	Multi-Cyclone	10 Apr, 11:45-12:20 (35 Minute)	8120	241237	47.81	70.50	-	-

BHILAI STEEL PLANT
April 2021 to Sep. 2021

SP-2 (M/c-4)	Sintering Machine	100	6	Multi-Cyclone	10 Apr, 11:00-11:20 (20 Minute)	8120	246986	48.64	58.27	-	-
SP-2, (Space dedusting)				ESP	29 Apr, 10:00-10:45 (45 Minute)	-	-	48.22	-	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	03 Apr, 10:35-11:15 (40 Minute)	7732	490196	35.62	-	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	05 Apr, 10:10-10:55 (45 Minute)	6086	504043	48.15	-	-	-
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	22 Apr, 08:50-09:25 (35 Minute)	2360	115390	38.16	94.60	110.20	-
Boiler 2	Boiler	80	4.3	ESP	22 Apr, 09:45-10:30 (45 Minute)	1930	116642	41.12	98.20	102.40	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	15 Apr, 10:45-11:30 (45 Minute)	1950	82660	47.40	98.20	108.60	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	15 Apr, 11:35-12:15 (45 Minute)	2080	80090	46.75	101.40	119.00	
RMP2											
RK	Rotary Kiln	60	2	Bag Filter	14 Apr, 10:45-11:30 (45 Minute)		41.2				

BHILAI STEEL PLANT
April 2021 to Sep. 2021

Month- May 2021

A.	Stack emission										
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diameter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM)(Norm:50mg/Nm3)	SO ₂ (250mg/Nm3)	NO _x (150mg/Nm3)	CO (Norm : 1%)
Blast Furnace											
BF-1 (Process)	Stoves	60	2.5	GCP (Scrubber)	11 May, 09:00-10:10 (70 Minute)	1853	56297	20.02	110.00	119.00	0.76 % V/V
BF-8 (Process)	Stoves			--do--	29 May, 08:45-09:45 (60 Minute)	7003	152759	21.79	78.60	86.80	0.78% V/V
BF-7 (Space dedusting)				GCP (Scrubber)	20 May, 10:45-11:30 (45 Minute)	-	-	43.91	-	-	-
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	18 May, 10:30-11:00 (30 Minute)	2040	106323	48.96	97.50		-
LF-2	Ladle Furnace	50	1.5	Bag Filter	17 May, 10:05-10:50 (45 Minute)	2880	103227	43.15	78.20		-
A.		Stack emission									
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diameter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM)(Norm:50m	SO ₂ (Norm:800 mg/Nm3)	NO _x (Norm:500 mg/Nm3)	CO (Norm: 3 kg/T of Coke

BHILAI STEEL PLANT
April 2021 to Sep. 2021

								g/Nm3)			
Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	01 May, 08:50-10:00 (70 Minute)	670	119557	34.46	152.80	165.20	2.58 Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	22 May, 09:30-10:30 (60 Minute)	715	118734	43.31	108.60	122.42	2.69Kg/T coke
Battery No. 4	Battery	100	3.5	Nil	22 May, 10:45-11:45 (60 Minute)	670	121508	44.54	113.20	119.35	2.68 Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	27 May, 11:10-12:00 (50 Minute)	782	112289	46.70	124.00	329.00	2.61 Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	29 May, 11:20-12:20 (60 Minute)	804	118392	45.58	94.00	208.00	2.65 Kg/T coke
Battery No. 8	Battery	100	3.5	Nil	04 May, 09:30-10:30 (60 Minute)	670	111954	48.60	82.40	105.80	2.64 Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	04 May, 10:45-11:45 (60 Minute)	1669	234064	43.03	113.80	160.20	2.55 Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	11 May, 11:15-12:15 (60 Minute)	1246	180509	42.12	196.00	235.80	2.61 Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorp tion Tower	15 May, 11:00-11:35 (35 Minute)	76	10381	-	2.491 Kg/T H ₂ SO ₄	-	-
A.	Stack emission										
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diam eter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring(duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg/N m3)	SO ₂ (Norm:600 mg/Nm3)	NO _x (Norm:60 0mg/Nm3)	CO
Sinter Plant											
SP-2											
SP-2 (M/c-2)	Sintering Machine	100	6	Multi-Cyclone	13 May, 09:40-10:25 (45 Minute)	2014	247763	46.47	79.60	-	-
SP-2 (M/c-3)	Sintering	100	6	Multi-	08 May, 09:05-09:45 (40	2263	233764	47.17	70.35	-	-

BHILAI STEEL PLANT
April 2021 to Sep. 2021

	Machine			Cyclone	Minute)						
SP-2 (M/c-4)	Sintering Machine	100	6	Multi-Cyclone	08 May, 10:00-10:45 (45 Minute)	2263	236252	48.82	65.40	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	20 May, 09:50-10:30 (40 Minute)	4222	520745	45.34	-	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	06 May, 09:45-10:30 (45 Minute)	4914	521814	43.15	-	-	-
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	27 May, 09:05-09:50 (45 Minute)	2545	115773	47.04	98.20	114.00	-
Boiler 2	Boiler	80	4.3	ESP	27 May, 10:00-10:45 (45 Minute)	2645	114477	48.95	102.50	116.40	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	25 May, 09:10-09:55 (45 Minute)	2140	85163	48.26	120.62	128.60	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	25 May, 10:00-10:45 (45 Minute)	2745	82478	46.61	122.32	135.20	

BHILAI STEEL PLANT
April 2021 to Sep. 2021

Month- June 2021

A.		Stack emission									
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diameter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (250mg/Nm3)	NO _x (150mg/Nm 3)	CO (Norm : 1%)
Blast Furnace											
BF-6 (Process)	Stoves	60	3.5	GCP (Scrub ber)	30 Jun, 08:00-09:05 (65 Minute)	1340	117185	18.19	110.00	124.00	0.81 % V/V
BF-5 (Space dedusting)				Bag filter	26 Jun, 10:00-10:45 (45 Minute)	-	-	42.02	-	-	-
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	04 Jun, 11:25-12:00 (35 Minute)	2040	110006	47.48	106.00		-
LF-2	Ladle Furnace	50	1.5	Bag Filter	29 Jun, 11:45-12:30 (45 Minute)	2760	107727	48.45	79.60		-
A.		Stack emission									
Name of the Plant (1)	Stack connecte d to (Name of the unit) (2)	Height of the stack (m) (3)	Diamete r of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50 mg/Nm3)	SO ₂ (Norm:800 mg/Nm3)	NO _x (Norm:500 mg/Nm3)	CO (Norm: 3 kg/T of Coke
Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	07 Jun, 10:30-11:30 (60 Minute)	882	123371	46.33	129.40	144.30	2.62 Kg/T coke

April 2021 to Sep. 2021

	SP-3
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BHILAI STEEL PLANT
April 2021 to Sep. 2021

SP-3 (M/c-1)	Sintering Machine	120	7	ESP	17 Jun, 11:00-11:45 (45 Minute)	4813	499937	42.29	-	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	15 Jun, 11:00-11:40 (40 Minute)	8566	519042	39.30	-	-	-
SP-3, M/c-1 (Space dedusting)				ESP	30 Jun, 09:30-10:10 (40 Minute)	-	-	46.53			
SP-3, M/c-2 (Space dedusting)				ESP	09 Jun, 10:45-11:30 (45 Minute)	-	-	48.14			
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	01 Jun, 11:00-11:45 (45 Minute)	2570	115146	47.97	102.00	125.30	-
Boiler 2	Boiler	80	4.3	ESP	01 Jun, 11:55-12:40 (45 Minute)	2625	118167	47.41	122.40	131.70	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	30 Jun, 12:30-01:15 (45 Minute)	1875	86329	40.77	118.50	124.00	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	10 Jun, 10:45-11:30 (45 Minute)	2198	83914	45.12	126.10	138.50	
Boiler 5	Boiler	80	4.3	ESP	28 Jun, 10:15-11:00 (45 Minute)	2360	117445	42.45	91.50	128.00	
Boiler 6	Boiler	80	4.3	ESP	28 Jun, 12:50-01:30 (40 Minute)	1255	347932	42.10	90.63	120.00	
RMP-2											
RK	Rotary Kiln	60	2	Bag Filter	29 Jun, 12:50-13:40 (50 Minute)	114	53234	46.96	-	-	-
Mills											
Wire Rod Mill	RHF				12 Jun, 11:05-12:05 (60 Minute)	-	-	18.18	71.80	-	
Merchant Mill	RHF				30 Jun, 11:05-12:05 (60 Minute)	-	-	23.31	81.70	38.60	
Rail Mill	RHF				11 Jun, 11:30-12:30 (60 Minute)	-	-	19.27	72.80	-	

BHILAI STEEL PLANT
April 2021 to Sep. 2021

Month- July 2021

A.											
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diameter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (250mg/Nm3)	NO _x (150mg/Nm3)	CO (Norm : 1%)
Blast Furnace											
BF-1 (Process)	Stoves	60	2.5	GCP (Scrubber)	29 Jul, 10:50-11:50 (60 Minute)	1638	57758	22.51	127.80	136.00	0.87% V/V
BF-7 (Process)	Stoves	70	3.5	--do--	17 Jul, 11:45-12:45 (60 Minute)	3209	115659	21.47	54.90	62.40	0.78% V/V
BF-8) (Process)	Stoves			--do--	03 Jul, 09:55-11:00 (65 Minute)	8031	157366	19.20	107.90	146.50	0.81% V/V
BF-7 (Space dedusting)				GCP (Scrubber)	21 Jul, 11:40-12:20 (40 Minute)	-	-	41.30	-	-	-
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	15 Jul, 11:10-11:45 (35 Minute)	2160	114608	48.32	96.50		-
LF-2	Ladle Furnace	50	1.5	Bag Filter	14 Jul, 09:55-10:40 (45 Minute)	3000	107328	38.96	73.40		-
A.		Stack emission									
Name of the Plant (1)	Stack connecte d to (Name of the unit) (2)	Height of the stack (m) (3)	Diamete r of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50	SO ₂ (Norm:800 mg/Nm3)	NO _x (Norm:500 mg/Nm3)	CO (Norm: 3 kg/T

BHILAI STEEL PLANT
April 2021 to Sep. 2021

								mg/Nm3)			of Coke
Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	09 Jul, 10:45-11:45 (60 Minute)	804	121465	36.50	123.40	135.00	2.49 Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	26 Jul, 10:30-11:30 (60 Minute)	882	121043	47.50	125.10	135.00	2.67 Kg/T coke
Battery No. 4	Battery	100	3.5	Nil	26 Jul, 11:45-12:45 (60 Minute)	771	121375	49.43	120.60	128.00	2.54 Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	22 Jul, 10:15-11:15 (60 Minute)	860	117425	45.25	124.00	145.00	2.58 Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	22 Jul, 11:30-12:30 (60 Minute)	827	119931	43.91	93.00	120.00	2.65 Kg/T coke
Battery No. 8	Battery	100	3.5	Nil	16 Jul, 11:00-12:00 (60 Minute)	648	116561	41.58	135.40	142.60	2.61 Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	06 Jul, 10:00-11:05 (65 Minute)	1568	212021	45.72	124.00	119.60	2.52 Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	08 Jul, 11:00-12:00 (60 Minute)	1649	173886	46.46	206.30	162.50	2.63 Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorp tion Tower	27 Jul, 11:10-11:50 (60 Minute)	80	8992	-	1.71 Kg/T H2SO4	-	-
A.	Stack emission										
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diam eter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring(duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg/N m3)	SO2 (Norm:600 mg/Nm3)	NOx (Norm:60 0mg/Nm3)	CO
SP-2											
SP-2 (M/c-1)	Sintering Machine	100	6	Multi-Cyclone	12 Jul, 11:55-12:35 (40 Minute)	1682	237295	47.76	72.80	-	-
SP-2 (M/c-2)	Sintering Machine	100	6	Multi-Cyclone	12 Jul, 11:00-11:45 (45 Minute)	1874	240203	47.50	64.90		

BHILAI STEEL PLANT
April 2021 to Sep. 2021

SP-2 (M/c-3)	Sintering Machine	100	6	Multi-Cyclone	20 Jul, 09:45-10:20 (35 Minute)	2010	230230	46.23	78.00	-	-
SP-2 (M/c-4)	Sintering Machine	100	6	Multi-Cyclone	20 Jul, 10:25-11:05 (40 Minute)	2098	222346	48.43	79.80	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	13 Jul, 10:40-11:25 (45 Minute)	8398	490222	45.72	-	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	23 Jul, 11:30-12:10 (40 Minute)	7945	528143	46.85	-	-	-
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	01 Jul, 09:55-10:40 (45 Minute)	2474	115327	49.22	120.40	126.20	-
Boiler 2	Boiler	80	4.3	ESP	01 Jul, 10:50-11:35 (45 Minute)	2285	119991	47.72	120.50	135.00	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	05 Jul, 10:00-10:40 (40 Minute)	1795	83620	47.07	118.00	109.50	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	05 Jul, 11:00-11:45 (45 Minute)	2400	85439	44.79	122.30	119.40	
Boiler 5	Boiler	80	4.3	ESP	07 Jul, 09:45-10:30 (45 Minute)	2252	120820	45.84	93.25	130.01	
Boiler 6	Boiler	80	4.3	ESP	24 Jul, 10:15-11:00 (45 Minute)	1424	334954	46.33	135.2	98.50	
RMP-2											
RK	Rotary Kiln	60	2	Wet Scrubber	20 Jul, 11:15-12:00 (45 Minute)	108	61453	46.26	-	-	-
Mills											
Wire Rod Mill	RHF				10 Jul, 10:00-11:10 (70 Minute)	-	-	17.75	-	-	
Plate Mill	RHF				2 Jul, 10:25-11:25 (60 Minute)	-	-	19.57	-	-	
Rail Mill	RHF				10 Jul, 11:30-12:35 (65 Minute)	-	-	17.10	-	-	

BHILAI STEEL PLANT
April 2021 to Sep. 2021

Month- Aug. 2021

Stack emission											
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diameter of the stack (m) (4)	Polluti on Control unit provid ed (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (250mg/Nm3)	NO _x (150mg/Nm 3)	CO (Norm : 1%)
Blast Furnace											
BF-4 (Process)	Stoves	60	2.5	--do--	28 Aug, 11:30-12:30 (60 Minute)	2146	120559	1919.	132.50	145.00	0.79% V/V
BF-5 (Process)	Stoves	60	3.5	--do--	04 Aug, 11:45-12:45 (60 Minute)	1746	119876	22.86	118.50	142.00	0.80% V/V
BF-6 (Process)	Stoves	60	3.5	--do--	24 Aug, 12:15-13:15 (60 Minute)	2139	118186	20.42	130.40	136.00	0.84% V/V
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	10 Aug, 10:45-11:20 (35 Minute)	2520	118123	48.82	92.80		-
LF-2	Ladle Furnace	50	1.5	Bag Filter	25 Aug, 10:05-10:50 (45 Minute)	3600	111575	46.26	80.10		-
A.		Stack emission									
Name of the Plant (1)	Stack connecte d to (Name of the unit) (2)	Height of the stack (m) (3)	Diamete r of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas	Parameters (whichever are applicable) (9)			
								Particulate matter(PM)	SO ₂ (Norm:800	NO _x (Norm:500	CO (Norm:

BHILAI STEEL PLANT
April 2021 to Sep. 2021

		(3)		(5)			(8)	(Norm:50 mg/Nm3)	mg/Nm3)	mg/Nm3)	3 kg/T of Coke
Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	19 Aug, 10:45-11:45 (60 Minute)	793	120629	43.74	125.00	128.60	2.52 Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	27 Aug, 10:45-11:45 (60 Minute)	815	120055	45.85	118.60	128.30	2.71 Kg/T coke
Battery No. 4	Battery	100	3.5	Nil	27 Aug, 11:55-13:00 (65 Minute)	648	122146	48.01	116.80	122.40	2.60 Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	17 Aug, 11:00-12:00 (60 Minute)	838	120545	46.77	125.00	132.00	2.67 Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	17 Aug, 12:10-13:10 (60 Minute)	815	117503	44.71	102.40	136.00	2.56 Kg/T coke
Battery No. 8	Battery	100	3.5	Nil	02 Aug, 11:30-12:30 (60 Minute)	681	113582	47.76	141.00	148.40	2.72 Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	13 Aug, 10:00-11:05 (65 Minute)	1829	212264	48.71	114.30	139.50	2.68 Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	16 Aug, 10:45-11:45 (60 Minute)	1829	178221	39.70	95.00	121.00	2.58 Kg/T coke
A.	Stack emission										
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diam eter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring(duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg/N m3)	SO ₂ (Norm:600 mg/Nm3)	NO _x (Norm:60 0mg/Nm3)	CO
SP-2											
SP-2 (M/c-1)	Sintering Machine	100	6	Multi- Cyclone	03 Aug, 12:30-13:10 (40 Minute)	2064	238703	47.37	68.30	-	-
SP-2 (M/c-2)	Sintering Machine	100	6	Multi- Cyclone	03 Aug, 11:45-12:20 (35 Minute)	2068	237398	48.63	66.90		
SP-2 (M/c-3)	Sintering Machine	100	6	Multi- Cyclone	06 Aug, 11:50-12:25 (35 Minute)	2069	243444	49.19	73.80	-	-

BHILAI STEEL PLANT
April 2021 to Sep. 2021

SP-2 (M/c-4)	Sintering Machine	100	6	Multi-Cyclone	06 Aug, 10:50-11:30 (40 Minute)	2069	236598	49.1	76.30	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	05 Aug, 11:15-12:00 (45 Minute)	8692	518151	41.48	-	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	09 Aug, 10:45-11:30 (45 Minute)	8035	520411	46.30	-	-	-
SP-3, M/c-1 (Space dedusting)				ESP	20 Aug, 11:00-11:45 (45 Minute)	-	-	47.20			
SP-3, M/c-2 (Space de-dusting)				ESP	21 Aug, 10:50-11:35 (45 Minute)	-	-	43.63			
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	18 Aug, 10:30-11:15 (45 Minute)	2491	118121	41.44	105.70	128.00	-
Boiler 2	Boiler	80	4.3	ESP	18 Aug, 11:25-12:10 (45 Minute)	2460	123364	39.22	98.40	130.60	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	07 Aug, 11:30-12:15 (45 Minute)	2570	84448	37.73	120.80	119.40	
Boiler 5	Boiler	80	4.3	ESP	12 Aug, 10:30-11:15 (45 Minute)	2135	117829	45.04	103.00	130.01	
Boiler 6	Boiler	80	4.3	ESP	31 Aug, 10:50-11:35 (45 Minute)	1320	313532	35.58	124.1	98.50	
RMP-2											
RK	Rotary Kiln	60	2	Wet Scrubber	23 Aug, 10:45-11:30 (45 Minute)	128	57532	42.01	-	-	-
Mills											
Wire Rod Mill	RHF				16 Aug, 11:00-12:10 (70 Minute)	-	-	19.82	-	-	
Plate Mill	RHF				25 Aug, 12:10-13:10 (60 Minute)	-	-	16.96	-	-	

BHILAI STEEL PLANT
April 2021 to Sep. 2021

Rail Mill	RHF				14 Aug, 13:00-14:05 (65 Minute)	-	-	18.28	-	-	
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Month- Sep. 2021

A. Stack emission											
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diameter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg/Nm3)	SO ₂ (250mg/Nm3)	NO _x (150mg/Nm3)	CO (Norm : 1%)
Blast Furnace											
BF-6	Stoves	60	3.5	GCP (Scrubber)	24 Sep,10:40-11:40 (60 minute)	2210	118013	20.42	115.80	128.40	0.81% V/V
BF-5	Stoves	60	3.5	GCP (Scrubber)	23 Sep, 11:15-12:00 (45 Minute)	1860	114084	45.44	-	-	0.77% V/V
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	10 Sep, 10:30-11:00 (30 Minute)	1800	119056	48.59	98.60		-
LF-2	Ladle Furnace	50	1.5	Bag Filter	06 Sep, 11:15-12:00 (45 Minute)	2825	112100	34.21	84.50		-
A.		Stack emission									
Name of the Plant (1)	Stack connecte d to (Name of the unit)	Height of the stack (m) (3)	Diameter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring (duration) (6)	Production fig. of the unit, during the period of monitoring	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM)	SO ₂	NO _x	CO (Norm:

BHILAI STEEL PLANT
April 2021 to Sep. 2021

	(2)	(3)				(7)		(Norm:50 mg/Nm3)	(Norm:8 00mg/N m3)	(Norm: 500mg /Nm3)	3 kg/T of Coke
Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	04 Sep, 11:15-12:15 (60 Minute)	804	123512	43.09	125.60	146.30	2.49 Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	22 Sep, 10:35-11:35 (60 Minute)	793	121347	45.47	120.60	139.40	2.68 Kg/T coke
Battery No. 4	Battery	100	3.5	Nil	22 Sep, 11:45-12:45 (60 Minute)	648	117112	46.66	125.00	139.10	2.54 Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	27 Sep, 10:30-11:30 (60 Minute)	838	123504	47.00	120.00	128.80	2.63 Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	27 Sep, 11:45-12:45 (60 Minute)	838	117932	46.13	114.60	138.20	2.48 Kg/T coke
Battery No. 8	Battery	100	3.5	Nil	01 Sep, 11:00-12:00 (60 Minute)	648	116954	48.75	132.80	148.20	2.64 Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	08 Sep, 10:00-11:05 (65 Minute)	1608	216842	45.65	113.00	123.00	2.61 Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	03 Sep, 11:30-12:30 (60 Minute)	1830	182612	41.61	151.00	127.00	2.51 Kg/T coke
A.	Stack emission										
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diam eter of the stack (m) (4)	Pollution Control unit provided (Name) (5)	Date & Time of the monitoring(duration) (6)	Producti on fig. of the unit, during the period of monitori ng (7)	Flow rate of the flue gas (8)	Parameters (whichever are applicable) (9)			
								Particulate matter(PM) (Norm:50mg/Nm 3)	SO₂ (Norm:60 0mg/Nm 3)	NO_x (Norm: 600mg /Nm3)	CO

BHILAI STEEL PLANT
April 2021 to Sep. 2021

SP-2											
SP-2 (M/c-1)	Sintering Machine	100	6	Multi-Cyclone	17 Sep, 12:50-01:20 (30 Minute)	2023	163589	48.67	68.20	-	-
SP-2 (M/c-2)	Sintering Machine	100	6	Multi-Cyclone	28 Sep, 11:05-11:50 (45 Minute)	2376	239153	42.55	72.50		
SP-2 (M/c-3)	Sintering Machine	100	6	Multi-Cyclone	09 Sep, 10:00-10:38 (38 Minute)	2176	236219	47.58	69.80	-	-
SP-2 (M/c-4)	Sintering Machine	100	6	Multi-Cyclone	09 Sep, 11:00-11:40 (40 Minute)	2085	229555	45.08	74.60	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	02 Sep, 12:10-12:55 (45 Minute)	8573	526401	47.61	-	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	13 Sep, 09:30-10:10 (40 Minute)	8217	526422	44.80	-	-	-
SP-3, M/c-1 (Space dedusting)	-	-	-	ESP	15 Sep, 10:30-11:15 (45 Minute)	-	-	42.15			
SP-3, M/c-2 (Space de-dusting)	-	-	-	ESP	04 Sep, 09:30-10:15 (45 Minute)	-	-	45.72			
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	29 Sep, 11:45-12:30 (45 Minute)	1700	116486	48.30	115.00	122.40	-
Boiler 2	Boiler	80	4.3	ESP	15 Sep, 12:20-13:00 (40 Minute)	1950	121728	47.97	103.60	114.80	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	29 Sep, 10:45-11:30 (45 Minute)	2015	85743	48.48	124.20	126.50	
Boiler 4	Boiler	80	4.3	Wet Scrubber	20 Sep, 11:30-12:15 (45 Minute)	1780	82740	47.19	102.40	122.00	
Boiler 5	Boiler	80	4.3	ESP	21 Sep, 11:45-12:25 (40 Minute)	1730	84366	45.84	89.26	129.60	
Boiler 6	Boiler	80	4.3	ESP	21 Sep, 10:50-11:35 (45 Minute)	1330	221906	48.12	128.4	108.50	

BHILAI STEEL PLANT
April 2021 to Sep. 2021

RMP-2											
RK	Rotary Kiln	60	2	Wet Scrubber	07 Sep, 09:45-10:30 (45 Minute)	128	57532	42.01	-	-	-
Mills											
Wire Rod Mill	RHF				07 Sep, 11:00-12:10 (70 Minute)	-	-	19.82	-	-	
Plate Mill	RHF				15 Sep, 13:15-14:20 (60 Minute)	-	-	16.96	-	-	
Rail Mill	RHF				16 Sep, 14:00-15:05 (65 Minute)	-	-	18.28	-	-	

FLAG E

E-2

Fugitive Emission

Fugitive Emissions Status Month- April 2021

S. No (1)	Name of the Unit (2)	Location of the Station (distance) (3)	Up wind / Down wind (4)	Date & time of the monitoring (5)	Parameters (as applicable) (6)						
					PM ₁₀ µg/m ³ (4000)	SO ₂ µg/m ³ (200)	NOx µg/m ³ (150)	Pb* µg/m ³ (2)	CO (5000)	BaP** 2000ng/m ³	Remarks*
1	Coke Oven area	In front of Batt.-9		08 Apr -09:30	1440	-	-	-	-	300 ng/m ³ **	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near Exhauster Area)		08 Apr -09:45	1220	-	-	-	-	-	-
3	Blast Furnace	BF # 7, Near furnace		26 Apr -08:30-12:30	631	35.50	49.68	0.165*	1728	-	<i>Norms as per GSR 277 (E) dtd 30/03/2012</i>
4	Steel Melting Shop-2	Near LF-1		06 Apr -10:30-13:15	825	38.60	56.20	0.103*	936	-	<i>Norms as per GSR 277 (E) dtd 30/03/2012</i>
5	Thermal Power Plant-1	Near Boiler-1 & 2		27 Apr -09:25	556	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		27 Apr -08:45	582	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		08 Apr -10:10	1100	-	-	-	-	-	-

NT- not Traceable

Note : * Heavy metal analysis & CO results submitted by RDCIS (Sample collected in June-2020)

 ** BaP monitoring done by RDCIS in May 2020 and result submitted in August 2020.

Fugitive Emissions Status Month- May 2021

S. No (1)	Name of the Unit (2)	Location of the Station (distance) (3)	Up wind / Down wind (4)	Date & time of the monitoring (5)	Parameters (as applicable) (6)						Remarks*
					PM ₁₀ µg/m ³ (4000)	SO ₂ µg/m ³ (200)	NO _x µg/m ³ (150)	Pb* µg/m ³ (2)	CO (5000)	BaP** 2000ng/m ³	
1	Coke Oven area	In front of Batt.-9		13 May -08:50	1620	-	-	-	-	300 ng/m ³ **	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near Exhauster Area)		13 May -09:10	1600	-	-	-	-	-	-
3	Blast Furnace	BF # 7, Near furnace		29 May -08:40-12:40	615	38.70	49.50	0.165*	-	-	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Near LF-1		18 May -09:40-12:05	818	34.92	42.80	0.103*	-	-	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-1 & 2		25 May -11:05	1020	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		25 May -09:30	698	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		13 May -09:45	1230	-	-	-	-	-	-

NT- not Traceable

Note : * Heavy metal analysis & CO results submitted by RDCIS (Sample collected in June-2020)

 ** BaP monitoring done by RDCIS in May 2020 and result submitted in August 2020.

Fugitive Emissions Status Month- June 2021

S. No (1)	Name of the Unit (2)	Location of the Station (distance) (3)	Up wind / Down wind (4)	Date & time of the monitoring (5)	Parameters (as applicable) (6)						
					PM ₁₀ µg/m ³ (4000)	SO ₂ µg/m ³ (200)	NO _x µg/m ³ (150)	Pb* µg/m ³ (2)	CO (5000)	BaP** 2000ng/m ³	Remarks*
1	Coke Oven area	In front of Batt.-9		02 Jun -08:50	1210	-	-	-	-	300 ng/m ³ **	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near Exhauster Area)		22 Jun -09:30	1310	-	-	-	-	-	-
3	Blast Furnace	BF # 6, (Cast House area)		30 Jun -08:00- 12:00	952	40.60	44.80	0.370*	1087	-	<i>Norms as per GSR 277 (E) dtd 30/03/2012</i>
4	Steel Melting Shop-2	Near LF-1		29 Jun -09:00- 01:00	1267	37.40	41.50	0.390*	1642	-	<i>Norms as per GSR 277 (E) dtd 30/03/2012</i>
5	Thermal Power Plant- 1	Near Boiler-1 & 2		01 Jun -08:45	1150	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		01 Jun -09:30	798	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		25 Jun -10:30	1160	-	-	-	-	-	-

NT- not Traceable
Note : * Heavy metal analysis results submitted by RDCIS in June 2021 (Sample collected in January-2021)
 ** BaP monitoring done by RDCIS in January 2021 and results awaited.

Fugitive Emissions Status Month- July 2021

S. No (1)	Name of the Unit (2)	Location of the Station (distance) (3)	Up wind / Down wind (4)	Date & time of the monitoring (5)	Parameters (as applicable) (6)						Remarks*
					PM ₁₀ µg/m ³ (4000)	SO ₂ µg/m ³ (200)	NO _x µg/m ³ (150)	Pb* µg/m ³ (2)	CO (5000)	BaP** 2000 ng/m ³	
1	Coke Oven area	In front of Batt.-3 & 4 (Batt.-6 for BaP)		29 Jul -11:35	1490	-	-	-	-	NT**	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near Exhauster Area)		29 Jul -12:15	1690	-	-	-	-	-	-
3	Blast Furnace	BF # 7, Near furnace		07 Jul -10:45-12:20	340	38.70	42.50	0.370*	1095	-	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Near LF-1		15 Jul -11:00-13:00	430	34.80	40.03	0.390*	1678	-	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-1 & 2		29 Jul -10:25	1530	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		29 Jul -09:35	918	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		29 Jul -11:10	1590	-	-	-	-	-	-

NT- not Traceable

Note : * Heavy metal analysis results submitted by RDCIS in June 2021 (Sample collected in January-2021)
 ** BaP monitoring done by RDCIS in March 2021 and results submitted in July 2021.

Fugitive Emissions Status Month- Aug. 2021

S. No (1)	Name of the Unit (2)	Location of the Station (distance) (3)	Up wind / Down wind (4)	Date & time of the monitoring (5)	Parameters (as applicable) (6)						
					PM ₁₀ µg/m ³ (4000)	SO ₂ µg/m ³ (200)	NO _x µg/m ³ (150)	Pb* µg/m ³ (2)	CO (5000)	BaP** 2000 ng/m ³	Remarks*
1	Coke Oven area	In front of Batt.-3 & 4 (Batt.-6 for BaP)		02 Aug -11:40	1760	-	-	-	-	NT**	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near Exhauster Area)		03 Aug -12:50	1880	-	-	-	-	-	-
3	Blast Furnace	BF # 7, Near furnace		28 Aug -10:00- 14:00	317	36.80	41.60	0.370*	1255	-	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Near LF-1		10 Aug -10:30- 12:15	1980	39.70	43.60	0.390*	1724	-	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-1 & 2		07 Aug -12:20	1490	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		28 Aug -12:40	1630	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		23 Aug -12:05	1740	-	-	-	-	-	-

NT- not Traceable

Note : * Heavy metal analysis results submitted by RDCIS in June 2021 (Sample collected in January-2021)

 ** BaP monitoring done by RDCIS in March 2021 and results submitted in July 2021.

Fugitive Emissions Status Month- Sep. 2021

S. No (1)	Name of the Unit (2)	Location of the Station (distance) (3)	Up wind / Down wind (4)	Date & time of the monitoring (5)	Parameters (as applicable) (6)						
					PM ₁₀ µg/m ³ (4000)	SO ₂ µg/m ³ (200)	NOx µg/m ³ (150)	Pb* µg/m ³ (2)	CO (5000)	BaP** 2000 ng/m ³	Remarks*
1	Coke Oven area	In front of Batt.-11		03 Sep -11:25	1780	-	-	-	-	NT**	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-3 & 4)		09 Sep -10:45	1870	-	-	-	-	-	-
3	Blast Furnace	BF # 6, Near Weighbridge		30 Sep -10:25-02:00	985	41.00	49.70	0.370*	1147	-	<i>Norms as per GSR 277 (E) dtd 30/03/2012</i>
4	Steel Melting Shop-2	Near LF-1 Chimney		28 Sep -10:15-02:15	965	36.40	39.70	0.390*	1528	-	<i>Norms as per GSR 277 (E) dtd 30/03/2012</i>
5	Thermal Power Plant-1	Near Boiler-2		15 Sep -10:30	1400	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		18 Sep -11:35	1540	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		18 Sep -10:50	1700	-	-	-	-	-	-
Note : * Heavy metal analysis results submitted by RDCIS in June 2021 (Sample collected in January-2021) ** NT- not Traceable Coke Oven (Battery6) BaP monitoring done in March 2021 and analysis results submitted by RDCIS in July 2021.											

FLAG E

E-3

AMBIENT AIR QUALITY

AMBIENT AIR QUALITY															
Month-April															
S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring	Parameters (as applicable)											
1	2	3	4	5											
				PM _{2.5}	PM ₁₀	SO ₂	NO ₂	NH ₃	CO	BaP*	O ₃	Pb*	As*	Ni*	C ₆ H ₆ **
		Norms	24 hrs	60	100	80	80	400	2000 (8 hrs)	-	180	1	-	-	-
			Annual	40	60	50	40	100	4000(1 hrs)	1	100	0.5	6	20	5
	Unit	$\mu\text{g}/\text{m}^3$											ng/m^3		
1	Civic Centre			22.97	50.65	14.21	13.77	2.93	450	NT	37.42	0.046	NT	0.021	0.59
2	OP-2			21.88	53.18	15.63	12.42	2.45	550	NT	47.46	0.100	NT	0.010	0.31
3	Rail Mill			23.13	54.36	18.14	13.63	2.02	610	NT	38.91	0.058	NT	0.016	1.95
4	Ispat Bhavan			18.28	51.78	15.94	14.86	1.89	260	NT	NA**	0.110	NT	0.013	NA**

Note: if monitoring of CO is done on 8 hourly basis, then Norm is $2000\mu\text{g}/\text{m}^3$. Otherwise, norm is $4000\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr

* Not done regularly. NT- not Traceable.

AMBIENT AIR QUALITY															
Month-May															
S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring	Parameters (as applicable)											
1	2	3	4	5											
				PM _{2.5}	PM ₁₀	SO ₂	NO ₂	NH ₃	CO	BaP*	O ₃	Pb*	As*	Ni*	C ₆ H ₆ **
		Norms	24 hrs	60	100	80	80	400	2000 (8 hrs)	-	180	1	-	-	-
			Annual	40	60	50	40	100	4000(1 hrs)	1	100	0.5	6	20	5
	Unit	$\mu\text{g}/\text{m}^3$											ng/m^3		
1	Civic Centre			25.04	55.79	14.67	15.22	2.93	410	NT	41.53	0.046	NT	0.021	3.36
2	OP-2			22.61	54.13	16.34	14.22	2.17	580	NT	46.91	0.100	NT	0.010	0.29
3	Rail Mill			24.47	57.63	17.01	13.84	1.67	660	NT	50.4	0.058	NT	0.016	1.55
4	Ispat Bhavan			20.63	53.44	13.16	12.91	1.88	270	NT	NA**	0.110	NT	0.013	NA**

Note: if monitoring of CO is done on 8 hourly basis, then Norm is $2000\mu\text{g}/\text{m}^3$. Otherwise, norm is $4000\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr

* Not done regularly. NT- not Traceable.

AMBIENT AIR QUALITY															
Month-June															
S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring	Parameters (as applicable)											
1	2	3	4	5											
				PM _{2.5}	PM ₁₀	SO ₂	NO ₂	NH ₃	CO	BaP*	O ₃	Pb*	As*	Ni*	C ₆ H ₆ **
		Norms	24 hrs	60	100	80	80	400	2000 (8 hrs)	-	180	1	-	-	-
			Annual	40	60	50	40	100	4000(1 hrs)	1	100	0.5	6	20	5
	Unit	$\mu\text{g}/\text{m}^3$											ng/m^3		
1	Civic Centre			25.23	49.36	12.95	14.38	1.94	210	NT	47.32	0.060	NT	0.009	3.36
2	OP-2			21.73	53.24	15.16	13.63	2.76	470	NT	53.16	0.060	NT	0.003	0.27
3	Rail Mill			25.19	58.11	17.63	14.37	1.78	590	NT	54.77	0.020	NT	0.011	1.06
4	Ispat Bhavan			18.48	57.42	11.75	13.15	1.90	240	NT	NA**	0.060	NT	0.016	NA**

Note: if monitoring of CO is done on 8 hourly basis, then Norm is $2000\mu\text{g}/\text{m}^3$. Otherwise, norm is $4000\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr.

* Not done regularly. Heavy metal analysis & CO results submitted by RDCIS in June 2021 (Sample collected in January-2021)

* NT- not Traceable

AMBIENT AIR QUALITY															
Month-July															
S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring	Parameters (as applicable)											
1	2	3	4	5											
				PM _{2.5}	PM ₁₀	SO ₂	NO ₂	NH ₃	CO	BaP*	O ₃	Pb*	As*	Ni*	C ₆ H ₆ **
		Norms	24 hrs	60	100	80	80	400	2000 (8 hrs)	-	180	1	-	-	-
			Annual	40	60	50	40	100	4000(1 hrs)	1	100	0.5	6	20	5
	Unit	$\mu\text{g}/\text{m}^3$											ng/m^3		
1	Civic Centre			24.31	49.28	13.89	15.97	1.91	232	NT	45.16	0.060	NT	0.009	3.23
2	OP-2			20.08	53.81	16.01	14.72	2.87	487	NT	54.45	0.060	NT	0.003	0.32
3	Rail Mill			25.40	57.22	17.78	15.17	1.68	585	NT	56.17	0.020	NT	0.011	1.42
4	Ispat Bhavan			20.61	56.27	13.18	14.62	1.98	251	NT	NA**	0.060	NT	0.016	NA**

Note: if monitoring of CO is done on 8 hourly basis, then Norm is $2000\mu\text{g}/\text{m}^3$. Otherwise, norm is $4000\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr.

* Not done regularly. Heavy metal analysis & CO results submitted by RDCIS in June 2021 (Sample collected in January-2021 * NT- not Traceable

B. AMBIENT AIR QUALITY AND FUGITIVE EMISSION															
Month-August															
S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring	Parameters (as applicable)											
1	2	3	4	5											
				PM _{2.5}	PM ₁₀	SO ₂	NO ₂	NH ₃	CO	BaP*	O ₃	Pb*	As*	Ni*	C ₆ H ₆ **
		Norms	24 hrs	60	100	80	80	400	2000 (8 hrs)	-	180	1	-	-	-
			Annual	40	60	50	40	100	4000(1 hrs)	1	100	0.5	6	20	5
	Unit	$\mu\text{g}/\text{m}^3$											ng/m^3		
1	Civic Centre			24.18	46.09	13.77	14.63	1.97	247	NT	46.08	0.060	NT	0.009	3.84
2	OP-2			20.62	50.96	16.20	13.96	2.93	461	NT	55.21	0.060	NT	0.003	0.63
3	Rail Mill			26.18	54.81	18.10	14.12	1.75	572	NT	58.37	0.020	NT	0.011	1.57
4	Ispat Bhavan			21.04	53.63	13.24	13.83	2.12	274	NT	NA**	0.060	NT	0.016	NA**

Note: if monitoring of CO is done on 8 hourly basis, then Norm is $2000\mu\text{g}/\text{m}^3$. Otherwise, norm is $4000\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr.

* Not done regularly. Heavy metal analysis & CO results submitted by RDCIS in June 2021 (Sample collected in January-2021)

* NT- not Traceable

** Monitoring is done through online Continious Ambient Monitoring system. At Ispat Bhavan, for monitoring of Ozone & Benzene is not done as no analyzers are installed for there parameters.

B. AMBIENT AIR QUALITY AND FUGITIVE EMISSION															
Month-September															
S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring	Parameters (as applicable)											
1	2	3	4	5											
				PM _{2.5}	PM ₁₀	SO ₂	NO ₂	NH ₃	CO	BaP*	O ₃	Pb*	As*	Ni*	C ₆ H ₆ **
		Norms	24 hrs	60	100	80	80	400	2000 (8 hrs)	-	180	1	-	-	-
			Annual	40	60	50	40	100	4000(1 hrs)	1	100	0.5	6	20	5
	Unit	$\mu\text{g}/\text{m}^3$											ng/m^3		
1	Civic Centre			23.52	46.48	13.99	14.47	1.88	273	NT	44.57	0.060	NT	0.009	2.89
2	OP-2			21.33	49.73	15.97	14.65	2.76	489	NT	61.27	0.060	NT	0.003	0.78
3	Rail Mill			27.10	55.98	17.75	15.10	1.92	594	NT	60.11	0.020	NT	0.011	1.78
4	Ispat Bhavan			22.67	54.10	14.02	14.54	2.04	287	NT	NA**	0.060	NT	0.016	NA**

Note: if monitoring of CO is done on 8 hourly basis, then Norm is $2000\mu\text{g}/\text{m}^3$. Otherwise, norm is $4000\mu\text{g}/\text{m}^3$, when monitoring of CO is done for 1 hr.

* Not done regularly. Heavy metal analysis & CO results submitted by RDCIS in June 2021 (Sample collected in January-2021)

* NT- not Traceable

** Monitoring is done through online Continious Ambient Monitoring system. At Ispat Bhavan, for monitoring of Ozone & Benzene is not done as no analyzers are installed for there parameters.

Bhilai Steel Plant
Water Pollution Status April 2021 to September 2021

FLAG - F

Water Pollution Status

Bhilai Steel Plant Water Pollution Status April 2021 to September 2021

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- April 2021

[illegible]

Bhilai Steel Plant Water Pollution Status April 2021 to September 2021

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- May 2021

[illegible]

Bhilai Steel Plant Water Pollution Status April 2021 to September 2021

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- June 2021

[illegible]

Bhilai Steel Plant Water Pollution Status April 2021 to September 2021

Water Pollution Status: Water consumption / tonne of Steel produced:
Name of the outlets and quantity discharged: Effluent discharged to: (Name of the river / drain / land etc.)
Quantity of the treatment effluent reused / recirculate and for what purpose

Month- July 2021

[illegible]

Bhilai Steel Plant Water Pollution Status April 2021 to September 2021

C. Water Pollution Status: Water consumption / tonne of Steel produced:

Name of the outlets and quantity discharged:Effluent discharged to: (Name of the river / drain / land etc.)

Quantity of the treatment effluent reused / recirculate and for what purpose

Month- August 2021

[illegible]

Bhilai Steel Plant Water Pollution Status April 2021 to September 2021

C. Water Pollution Status: Water consumption / tonne of Steel produced:

Name of the outlets and quantity discharged:Effluent discharged to: (Name of the river / drain / land etc.)

Quantity of the treatment effluent reused / recirculate and for what purpose

Month- September 2021

[illegible]

FLAG G

Noise Pollution Control Status

<u>Noise Pollution Control Status</u>						
Month-April 2021						
1. Noise Monitoring in Work Zone						
Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A) 90 dB (A) for 8 hrs. exposure (As per Factory Act, 1948)	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	29-Apr	5 m	Air tight control Room	66.8	2 Minute	
Blast Furnace-5(Control Room)	07-Apr	5 m	Acoustic Room	70.4	2 Minute	
Mills (Rolling / forgoing) Rail Mill	27-Apr	5 m	Acoustic pulpit	78.9	2 Minute	
TPP/CPP (Turbines-3) (Control Room)	15-Apr	5 m	Acoustic cabins	61.4	2 Minute	
SMS-1 (GCP-4) (Control Room)	Shutdown	5 m	Acoustic Control Room	Shutdown	2 Minute	
SP-2, (M/c-3 & 4) Operator's room	10-Apr	5 m	Acoustic Room	66.4	2 Minute	
Coke-oven area (Batt.-9) (Control Room)	01-Apr	5 m	Air Tight control Room	70.2	2 Minute	
Others						

* Noise level map of the plant may be attached along with the report.

2. Ambient Noise Monitoring

Noise Zone	Noise Level			Unit: dB (A)	
	Standard	Day Time	Night time		
Industrial Area (at boundary of plant)					
Near OP-2	75	61.2	54.9		
Near Joratarai Gate	75	61.4	55.3		
Near Main Gate	75	63.4	59.6		
Near Khursipar Gate	75	68.6	63.4		
Commercial Area					
Sector-05 (Market area)	65 Day & 55 Night	55.9	52.0		
Sector-06 (Near 'B' Market)	65 Day & 55 Night	63.3	54.2		
Sector-09 (Goal Market)	65 Day & 55 Night	51.1	45.2		
Maroda Sector (BSP Market)	65 Day & 55 Night	58.8	51.1		
Risali Sector (BSP Market)	65 Day & 55 Night	64.1	53.9		
Residential Area					
Sector-01 (Street No. - 23)	55 Day & 45 Night	47.5	44.3		
Sector-05 (Street No. - 32)	55 Day & 45 Night	45.2	44.1		
Sector-07 (Street No. - 17)	55 Day & 45 Night	42.0	43.6		
Sector-08 (Street No. - 05)	55 Day & 45 Night	44.8	43.9		
Sector-10 (Street No. - 25)	55 Day & 45 Night	40.2	44.5		
Silence Area					
Sector-02 (English Medium Middle School)	50 Day & 40 Night	49.0	38.1		
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	44.2	37.6		
Sector-07 (English Medium Middle School)	50 Day & 40 Night	48.4	38.5		
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.2	36.9		
Maroda Sector (Estate Court)	50 Day & 40 Night	49.3	39.1		

- Noise Monitoring in township area done (Quarterly) in the month of March-21

Bhilai Steel Plant Noise Pollution Status April 2021 to September 2021

1. Noise Monitoring in Work Zone						
Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A) 90 dB (A) for 8 hrs. exposure (As per Factory Act, 1948)	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	31-May	5 m	Air tight control Room	67.9	2 Minute	
Blast Furnace-1(Control Room)	11-May	5 m	Acoustic Room	70.0	2 Minute	
Mills (Rolling / forgoing) Rail Mill	31-May	5 m	Acoustic pulpit	88.4	2 Minute	
TPP/CPP (Turbines-3 & 4) (Control Room)	25-May	5 m	Acoustic cabins	67.8	2 Minute	
SMS-1 (GCP-4) (Control Room)	Shutdown	5 m	Acoustic Control Room	Shutdown	2 Minute	
SP-2, (M/c-4) Operator's room	08-May	5 m	Acoustic Room	65.8	2 Minute	
Coke-oven area (Batt.-1) (Control Room)	01-May	5 m	Air Tight control Room	67.8	2 Minute	
Others						

* Noise level map of the plant may be attached along with the report.

2. Ambient Noise Monitoring

Noise Zone	Noise Level			Unit: dB (A)	
	Standard	Day Time	Night time		
Industrial Area (at boundary of plant)					
Near OP-2	75	61.5	58.4		
Near Joratarai Gate	75	63.5	60.3		
Near Main Gate	75	63.4	59.9		
Near Khursipar Gate	75	66.9	64.8		
Commercial Area					
Sector-05 (Market area)	65 Day & 55 Night	55.9	52.0		
Sector-06 (Near 'B' Market)	65 Day & 55 Night	63.3	54.2		
Sector-09 (Goal Market)	65 Day & 55 Night	51.1	45.2		
Maroda Sector (BSP Market)	65 Day & 55 Night	58.8	51.1		
Risali Sector (BSP Market)	65 Day & 55 Night	64.1	53.9		
Residential Area					
Sector-01 (Street No. - 23)	55 Day & 45 Night	47.5	44.3		
Sector-05 (Street No. - 32)	55 Day & 45 Night	45.2	44.1		
Sector-07 (Street No. - 17)	55 Day & 45 Night	42.0	43.6		
Sector-08 (Street No. - 05)	55 Day & 45 Night	44.8	43.9		
Sector-10 (Street No. - 25)	55 Day & 45 Night	40.2	44.5		
Silence Area					
Sector-02 (English Medium Middle School)	50 Day & 40 Night	49.0	38.1		
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	44.2	37.6		
Sector-07 (English Medium Middle School)	50 Day & 40 Night	48.4	38.5		
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.2	36.9		
Maroda Sector (Estate Court)	50 Day & 40 Night	49.3	39.1		

Noise Monitoring in township area done (Quarterly) in the month of March-21

Bhilai Steel Plant Noise Pollution Status April 2021 to September 2021

1. Noise Monitoring in Work Zone						
Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A) 90 dB (A) for 8 hrs. exposure (As per Factory Act, 1948)	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	29-Jun	5 m	Air tight control Room	66.3	2 Minute	
Blast Furnace-7(Control Room)	05-Jun	5 m	Acoustic Room	68.9	2 Minute	
Mills (Rolling / forgoing) Rail Mill	11-Jun	5 m	Acoustic pulpit	89.4	2 Minute	
TPP/CPP (Turbines-3 & 4) (Control Room)	01-Jun	5 m	Acoustic cabins	64.6	2 Minute	
SMS-1 (GCP-4) (Control Room)	Shutdown	5 m	Acoustic Control Room	Shutdown	2 Minute	
SP-2, (M/c-3 & 4) Operator's room	22-Jun	5 m	Acoustic Room	68.6	2 Minute	
Coke-oven area (Batt.-8) (Control Room)	02-Jun	5 m	Air Tight control Room	67.9	2 Minute	
Others						

* Noise level map of the plant may be attached along with the report.

2. Ambient Noise Monitoring

Noise Zone	Noise Level			Unit: dB (A)	
	Standard	Day Time	Night time		
Industrial Area (at boundary of plant)					
Near OP-2	75	60.2	56.6		
Near Joratarai Gate	75	62.0	59.3		
Near Main Gate	75	61.4	56.7		
Near Khursipar Gate	75	69.7	67.9		
Commercial Area					
Sector-05 (Market area)	65 Day & 55 Night	59.5	54.9		
Sector-06 (Near 'B' Market)	65 Day & 55 Night	59.6	52.4		
Sector-09 (Goal Market)	65 Day & 55 Night	49.2	51.2		
Maroda Sector (BSP Market)	65 Day & 55 Night	48.6	53.1		
Risali Sector (BSP Market)	65 Day & 55 Night	54.5	52.6		
Residential Area					
Sector-01 (Street No. - 23)	55 Day & 45 Night	50.6	43.5		
Sector-05 (Street No. - 32)	55 Day & 45 Night	49.4	41.9		
Sector-07 (Street No. - 17)	55 Day & 45 Night	52.1	44.2		
Sector-08 (Street No. - 05)	55 Day & 45 Night	51.3	42.8		
Sector-10 (Street No. - 25)	55 Day & 45 Night	46.0	43.4		
Silence Area					
Sector-02 (English Medium Middle School)	50 Day & 40 Night	49.2	39.4		
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	48.0	38.7		
Sector-07 (English Medium Middle School)	50 Day & 40 Night	49.0	39.1		
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.3	38.5		
Maroda Sector (Estate Court)	50 Day & 40 Night	48.6	38.2		

- Noise Monitoring in township area done (Quarterly) in the month of June-21

Noise Pollution Control Status

Month-July 2021

1. Noise Monitoring in Work Zone

Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A) 90 dB (A) for 8 hrs. exposure (As per Factory Act, 1948)	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	31-Jul	5 m	Air tight control Room	64.9	2 Minute	
Blast Furnace-7(Control Room)	03-Jul	5 m	Acoustic Room	68.3	2 Minute	
Mills (Rolling / forgoing) Rail Mill	10-Jul	5 m	Acoustic pulpit	82.0	2 Minute	
TPP/CPP (Turbines-1 & 2) (Control Room)	01-Jul	5 m	Acoustic cabins	63.9	2 Minute	
SMS-1 (GCP-4) (Control Room)	Shutdown	-	Acoustic Control Room	Shutdown	-	
SP-2, (M/c-1 & 2) Operator's room	12-Jul	5 m	Acoustic Room	66.8	2 Minute	
Coke-oven area (Batt.-9) (Control Room)	06-Jul	5 m	Air Tight control Room	67.8	2 Minute	
Others						

* Noise level map of the plant may be attached along with the report.

2. Ambient Noise Monitoring

Noise Zone	Noise Level			Unit: dB (A)	
	Standard	Day Time	Night time		
Industrial Area (at boundary of plant)					
Near OP-2	75	55.6	53.4		
Near Joratarai Gate	75	53.9	51.6		
Near Main Gate	75	58.9	54.8		
Near Khursipar Gate	75	70	67.3		
Commercial Area					
Sector-05 (Market area)	65 Day & 55 Night	59.5	54.9		
Sector-06 (Near 'B' Market)	65 Day & 55 Night	59.6	52.4		
Sector-09 (Goal Market)	65 Day & 55 Night	49.2	51.2		
Maroda Sector (BSP Market)	65 Day & 55 Night	48.6	53.1		
Risali Sector (BSP Market)	65 Day & 55 Night	54.5	52.6		
Residential Area					
Sector-01 (Street No. - 23)	55 Day & 45 Night	50.6	43.5		
Sector-05 (Street No. - 32)	55 Day & 45 Night	49.4	41.9		
Sector-07 (Street No. - 17)	55 Day & 45 Night	52.1	44.2		
Sector-08 (Street No. - 05)	55 Day & 45 Night	51.3	42.8		
Sector-10 (Street No. - 25)	55 Day & 45 Night	46.0	43.4		
Silence Area					
Sector-02 (English Medium Middle School)	50 Day & 40 Night	49.2	39.4		
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	48.0	38.7		
Sector-07 (English Medium Middle School)	50 Day & 40 Night	49.0	39.1		
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.3	38.5		
Maroda Sector (Estate Court)	50 Day & 40 Night	49.6	38.2		

- Noise Monitoring in township area done (Quarterly) in the month of June-21

Noise Pollution Control Status**Month-Aug. 2021****1. Noise Monitoring in Work Zone**

Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A) <i>90 dB (A) for 8 hrs. exposure (As per Factory Act, 1948)</i>	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	24-Aug	5 m	Air tight control Room	67.1	2 Minute	
Blast Furnace-7 (Control Room)	04-Aug	5 m	Acoustic Room	69.4	2 Minute	
Mills (Rolling / forgoing) Rail Mill	11-Aug	5 m	Acoustic pulpit	83.5	2 Minute	
TPP/CPP (Turbines-1 & 2) (Control Room)	07-Aug	5 m	Acoustic cabins	66.7	2 Minute	
SMS-1 (GCP-4) (Control Room)	Shutdown	-	Acoustic Control Room	Shutdown	-	
SP-2, (M/c-1 & 2) Operator's room	03-Aug	5 m	Acoustic Room	66.3	2 Minute	
Coke-oven area (Batt.-9) (Control Room)	02-Aug	5 m	Air Tight control Room	68.4	2 Minute	
Others						

* Noise level map of the plant may be attached along with the report.

2. Ambient Noise Monitoring

Noise Zone	Noise Level			Unit: dB (A)
	Standard	Day Time	Night time	
Industrial Area (at boundary of plant)				
Near OP-2	75	55.6	53.4	
Near Joratarai Gate	75	53.9	51.6	
Near Main Gate	75	58.9	54.8	
Near Khursipar Gate	75	70	67.3	
Commercial Area				
Sector-05 (Market area)	65 Day & 55 Night	59.5	54.9	
Sector-06 (Near 'B' Market)	65 Day & 55 Night	59.6	52.4	
Sector-09 (Goal Market)	65 Day & 55 Night	49.2	51.2	
Maroda Sector (BSP Market)	65 Day & 55 Night	48.6	53.1	
Risali Sector (BSP Market)	65 Day & 55 Night	54.5	52.6	
Residential Area				
Sector-01 (Street No. - 23)	55 Day & 45 Night	50.6	43.5	
Sector-05 (Street No. - 32)	55 Day & 45 Night	49.4	41.9	
Sector-07 (Street No. - 17)	55 Day & 45 Night	52.1	44.2	
Sector-08 (Street No. - 05)	55 Day & 45 Night	51.3	42.8	
Sector-10 (Street No. - 25)	55 Day & 45 Night	46.0	43.4	
Silence Area				
Sector-02 (English Medium Middle School)	50 Day & 40 Night	49.2	39.4	
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	48.0	38.7	
Sector-07 (English Medium Middle School)	50 Day & 40 Night	49.0	39.1	
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.3	38.5	
Maroda Sector (Estate Court)	50 Day & 40 Night	49.6	38.2	

- **Noise Monitoring in township area done (Quarterly) in the month of June-21**

Noise Pollution Control Status

Month-Sep. 2021

1. Noise Monitoring in Work Zone

Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A) 90 dB (A) for 8 hrs. exposure (As per Factory Act, 1948)	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	27-Sep	5 m	Air tight control Room	66.8	2 Minute	
Blast Furnace-6(Control Room)	15-Sep	5 m	Acoustic Room	71.0	2 Minute	
Mills (Rolling / forgoing) Rail Mill	27-Sep	5 m	Acoustic pulpit	83.9	2 Minute	
TPP/CPP (Turbines-3) (Control Room)	29-Sep	5 m	Acoustic cabins	68.4	2 Minute	
SP-2, (M/c-3 & 4) Operator's room	09-Sep	5 m	Acoustic Room	68.9	2 Minute	
Coke-oven area (Batt.-3 & 4) (Control Room)	22-Sep	5 m	Air Tight control Room	69.4	2 Minute	
Others						

* Noise level map of the plant may be attached along with the report.

2. Ambient Noise Monitoring

Noise Zone	Noise Level			Unit: dB (A)	
	Standard	Day Time	Night time		
Industrial Area (at boundary of plant)					
Near OP-2	75	56.3	52.7		
Near Joratarai Gate	75	57.1	54.8		
Near Main Gate	75	55.7	53.9		
Near Khursipar Gate	75	69.8	66.9		
Commercial Area					
Sector-05 (Market area)	65 Day & 55 Night	54.5	48.6		
Sector-06 (Near 'B' Market)	65 Day & 55 Night	60.0	46.6		
Sector-09 (Goal Market)	65 Day & 55 Night	55.0	52.2		
Maroda Sector (BSP Market)	65 Day & 55 Night	55.2	49.4		
Risali Sector (BSP Market)	65 Day & 55 Night	61.4	53.4		
Residential Area					
Sector-01 (Street No. - 23)	55 Day & 45 Night	46.6	44.2		
Sector-05 (Street No. - 32)	55 Day & 45 Night	49.0	44.3		
Sector-07 (Street No. - 17)	55 Day & 45 Night	49.6	41.9		
Sector-08 (Street No. - 05)	55 Day & 45 Night	52.6	43.7		
Sector-10 (Street No. - 25)	55 Day & 45 Night	49.6	44.4		
Silence Area					
Sector-02 (English Medium Middle School)	50 Day & 40 Night	48.6	38.1		
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	48.0	39.2		
Sector-07 (English Medium Middle School)	50 Day & 40 Night	47.7	38.9		
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	48.5	39.1		
Maroda Sector (Estate Court)	50 Day & 40 Night	47.2	39.2		

- Noise Monitoring in township area done (Quarterly) in the month of Sep.-21