



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

GM I/c(EnMD)/B-8/2022/

Date: 25/05/2022

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 (October'2021 to March-2022) 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 I/c(Env.MD)

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

Half Yearly Compliance Report

2022

01 Jun(01 Oct - 31 Mar)

Acknowledgement

Proposal Name		Revised configuration of modernization-cum-expansion of 7.0 MTPA Bhilai Steel Plant by Mis Steel Authority of India Limited (SAIL) located at Bhilai, District Durg, Chhattisgarh- Amendment in Environment Clearance - regarding.	
Name of Entity / Corporate Office		Ms.Uma Katoch	
Village(s)		N/A	
District		DURG	
Proposal No.	IA/CG/IND/260774/2022 dtd 11/03/2022.	Category	Industrial Projects - 1
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	CHHATTISGARH	Entity's PAN	*****7062F
MoEF File No.	F. No. IA-J-1101112812007-IA 11 (I)	Entity name as per PAN	STEEL AUTHORITY OF INDIA LTD

Compliance Reporting Details

Reporting Year	2022
Remarks (if any)	April 2024 to September 2024
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office	Ms.Uma Katoch	
	Project Area as per EC Granted	Actual Project Area in Possession
Private	3284.75	6286.75
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	3284.75	6286.75

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Coke from Coke Oven Battery,	Million Tons per Annum (MTPA)	31/07/2025	3.94	3.73	3.94
2	Hot Metal from Blast Furnace	Million Tons per Annum (MTPA)	31/07/2025	7.5	5.98	7.5
3	Bars and Rods from BAR and ROD Mills	Million Tons per Annum (MTPA)	31/07/2025	0.9	0.89	0.9
4	Crude Steel From Steel Melting Shops	Million Tons per Annum (MTPA)	31/07/2025	7.0	5.67	7.0
5	Refractories from Refractory Material Plant	Million Tons per Annum (MTPA)	31/07/2025	1.58	0.70	1.58
6	Sinters from Sinter Plant	Million Tons per Annum (MTPA)	31/07/2025	9.772	8.7	9.772
7	Rail and Structures from RSM	Million Tons per Annum (MTPA)	31/07/2025	2.20	0.437	2.20
8	Power and Steam from PBS	MW	31/07/2025	94	26.9	94
9	Plates from Plate Mill	Million Tons per Annum (MTPA)	31/07/2025	1.65	1.13	1.65
10	Merchant Products from Merchant Mill	Million Tons per Annum (MTPA)	31/07/2025	0.85	0.655	0.85
11	Wire Rods Products from Wire Rod Mill	Million Tons per Annum (MTPA)	31/07/2025	0.70	0.458	0.70
12	Oxygen from Oxygen Plant	Tons per Day (TPD)	31/07/2025	2350	542	2350

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Corporate Environmental Responsibility	All CER activities as committed in the reply to the ADS letter dated 02.01.2019 shall be completed in the financial year 2019-20.
PPs Submission: Complied BSP has initiated action for completion of all identified CER activities/projects committed in the reply to the ADS letter dated 02.01.2019. Due to the prevalence of COVID pandemic (1st wave from March to November-2020 and 2nd wave from March to June-2021) there has been delay in completion of the projects. However presently the CER projects are progressing well and likely to be completed by December-2021. A detailed status report on CER activities enclosed at Flag-C		Date: 02/05/2025
2	WASTE MANAGEMENT	100 % SMS -Slag utilization shall be ensured after conditioning /steam curing.
PPs Submission: Complied About 55 percent the BOF slag is presently being recycled back in to steel making process and also utilized in Road Making and filling of the low lying areas. BSP has also started selling BOF slag to the interested buyers (Cement Plants other Construction industries) since April-2021. A pilot scale study on Development of process for steam maturing of BOF slag at BSL was taken up by SAIL. The matured BOF slag can be utilised as an aggregate in cement concrete, as rail track ballast and for road making etc. SAIL came out with the final report wherein optimum process parameters have been frozen. The proposition for steam maturing facility on commercial scale is under consideration. Number of other R and D efforts are being taken-up by SAIL in association with other agencies, which are still in nascent stage. After the completion of these studies, exploring the options for commercial scale/bulk utilization of BOF slag will be taken-up. BSP has given an assignment to NIT-Raipur for Assessing the suitability of Twin Hearth Furnace(THF) Steel Slag as pavement material and feasibility of THF Steel slag in construction of the rural roads. NIT Raipur has submitted the final report in June-2021. The report was submitted to CECB and will be shared with all agencies involved in road making to promote the use of steel slag in Road making and other infrastructure projects.		Date: 02/05/2025
3	GREENBELT	Scheme for decommissioning of SMS-1 and its utilities along with green belt development in that area shall be submitted within six months to the Ministry and Regional Office of the MoEF&CC.
PPs Submission: Complied SMS-1 phased-out in March-2021 Decommissioning plan along with greenbelt development will be submitted to MoEF&CC.		Date: 02/05/2025
4	GREENBELT	Scheme for green belt development in the remaining area for covering 33% of total project area shall be submitted to the Regional office of the MoEF&CC.
PPs Submission: Complied BSP has planted 4412482 nos of trees in an area covering about 1840 hectares till March-2021. In the year 2021-22(April-March) BSP has planted 7080 trees within the plant premises and township covering an area of about 15-20 hectares. In the year 2021-22 BSP has been planted 67080 Trees. 60,000 saplings planted at Township and its surrounding area of Bhilai. Work awarded to C.G. Van Vikas Nigam. Till Sep.-2021 about 6000 trees have been planted. Further Green belt required to be developed to meet the 33 percentage criteria is about 280 Hectares . (However by excluding the two reservoirs/cooling ponds area of 1100 hectares from the total area of the project, BSPs green belt coverage comes to 35.48 Percentage.		Date: 02/05/2025
5	AIR QUALITY MONITORING AND PRESERVATION	Standard Operating Procedures (SOPs) shall be developed for performance monitoring of pollution control devices and performance monitoring should get conducted every year internally and every third year through accredited third party,

PPs Submission: Complied Standard Operating Procedures (SOPs) are developed for performance monitoring of pollution control devices and performance monitoring every year internally Performance monitoring of pollution control devices at every three year through an accredited third party will also be conducted.		Date: 02/05/2025
6	MISCELLANEOUS	In the Environmental Policy the hierarchy of reporting environmental non-compliances and emergencies should be clearly mentioned and submitted to the Regional Office of the MoEF&CC.
PPs Submission: Complied The policy followed at SAIL for reporting environmental non-compliances and emergencies has already been submitted to MoEFCC-New Delhi.		Date: 02/05/2025
7	WASTE MANAGEMENT	Solid waste management as committed in the reply to the ADS letter dated 02.01.2019 shall be complied.
PPs Submission: Complied Solid waste management as committed in the reply to the ADS letter dated 02.01.2019 will be complied.		Date: 02/05/2025
General Conditions		
Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (prevention & Control of Pollution) Act 1974 from the concerned State pollution control Board/ Committee.
PPs Submission: Complied Online application for Consent to Establish has been submitted to Chhattisgarh Environment Conservation Board (CECB) on 22/07/2019 The Consent to Establish was granted by CECB Ref.no. 8779/TS/CECB/2021,dated 08/01/2021 for Five Years.		Date: 02/05/2025
2	Statutory compliance	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water / from the competent authority concerned in case of drawl of surface water required for the project.
PPs Submission: Complied No ground water will be used for the project.		Date: 02/05/2025
3	Statutory compliance	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules,2016 as amended from time to time.
PPs Submission: Complied BSP has obtained the Authorization for the handling of the Hazardous Waste Generated in the Plant from Chhattisgarh Environment Conservation Board which is valid up to 16/04/2024. Copy of the authorization is enclosed at Flag-D		Date: 02/05/2025
4	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 {E} dated 31st March 2012(Integrated iron & Steel) G.S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal

		power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.
PPs Submission: Complied 31 nos of CEMs have been installed covering all the process stacks and connected to SPCB and CPCB online servers and calibration of this system is being carried-out from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.		Date: 02/05/2025
5	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
PPs Submission: Complied Fugitive emissions are being monitored every quarter and report submitted to regulatory agencies.		Date: 02/05/2025
6	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install system to carryout Continuous Ambient Air Quality monitoring for common/ criterion parameters relevant to the main pollutants released (e.g- PM10 and PM2.5 in reference to PM emission, and SOx and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions
PPs Submission: Complied 4 nos of Continuous Ambient Air Quality monitoring stations have been installed within and outside the plant area covering upwind and downwind directions Twelve air pollutants, as per the National Ambient Air quality standards-2009, namely, PM10, PM2.5, Carbon Monoxide (CO), Sulphur Dioxide (SO2), Nitrogen Dioxide (NO2), Ammonia (NH3), ground level Ozone (O3), Lead, Arsenic, Nickel, Benzene and Benzo (a) Pyrene are being measured (Note : Benzene and Benzo (a) Pyrene is measured offline)		Date: 02/05/2025
7	AIR QUALITY MONITORING AND PRESERVATION	The cameras shall be installed at suitable locations for 24X7 recording of battery emissions on the both sides of coke oven batteries and videos shall be preserved for at least one-month recordings.
PPs Submission: Complied Cameras have been installed at Coke ovens for recording of battery emissions		Date: 02/05/2025
8	AIR QUALITY MONITORING AND PRESERVATION	Sampling facility at process stacks and at quenching towers shall be provided as per CPCB guidelines for manual monitoring of emissions
PPs Submission: Complied Sampling facilities at process stacks and at quenching towers have been provided as per CPCB guidelines for manual monitoring of emissions		Date: 02/05/2025
9	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report,

PPs Submission: Complied Copies of monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions (October-2021 to March-2022) is enclosed at Flag-E		Date: 02/05/2025
10	AIR QUALITY MONITORING AND PRESERVATION	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.
PPs Submission: Complied Air Pollution Control (APC) systems have been provided for all the dust generating points including fugitive dust from all vulnerable sources. The stack and fugitive emissions monitored are meeting the standards..		Date: 02/05/2025
11	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.
PPs Submission: Complied Diligent maintenance of Bags is being done and are replaced whenever there are leakages.		Date: 02/05/2025
12	AIR QUALITY MONITORING AND PRESERVATION	Secondary emission control system shall be provided at SMS Converters.
PPs Submission: Complied Secondary emission control system has been provided for SMS-3 Converters.		Date: 02/05/2025
13	AIR QUALITY MONITORING AND PRESERVATION	Pollution control system in the steel plant shall be provided as per the CREP Guidelines of CPCB.
PPs Submission: Complied The Pollution control system as per the guidelines of CREP have been provided BOD plant for the treatment of effluents of COCCD Secondary emission control system has been provided for SMS-3 Converters Cast house Defuming systems have been provided for BF-8 and BF-7		Date: 02/05/2025
14	AIR QUALITY MONITORING AND PRESERVATION	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads. shop floors, roofs, regularly.
PPs Submission: Complied Vacuum cleaners are being used to clean plant roads. Shop floor etc, regularly.		Date: 02/05/2025
15	AIR QUALITY MONITORING AND PRESERVATION	Recycle and reuse Iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.
PPs Submission: Complied Iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices are being recycled back to the process after appropriate treatment. A briquetting/ agglomeration plant on BOO basis will be installed in next 3 years for increasing the utilization of process sludges/dusts		Date: 02/05/2025
16	AIR QUALITY MONITORING AND PRESERVATION	The project proponent use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

PPs Submission: Complied At BSP railway wagons are being used for transportation of 95 Percent of the raw materials like coal and Iron ore. For internal transportation of raw materials leak proof trucks/dumpers are being used after proper covering.		Date: 02/05/2025
17	AIR QUALITY MONITORING AND PRESERVATION	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility)
PPs Submission: Complied Facilities for spillage collection are provided for coal and coke on wharf of coke oven batteries		Date: 02/05/2025
18	AIR QUALITY MONITORING AND PRESERVATION	Land-based APC system shall be installed to control coke pushing emissions
PPs Submission: Complied Land-based APC system has been installed to control coke pushing emissions in Coke oven Battery-11.		Date: 02/05/2025
19	AIR QUALITY MONITORING AND PRESERVATION	Monitor CO, HC and Oz in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber
PPs Submission: Complied Monitor CO, and O2 in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber are being measured.		Date: 02/05/2025
20	AIR QUALITY MONITORING AND PRESERVATION	Vapour absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens
PPs Submission: Complied The installation of the system shall be explored in future based on feasibility		Date: 02/05/2025
21	AIR QUALITY MONITORING AND PRESERVATION	In case concentrated ammonia liquor is incinerated, adopt high temperature incineration to destroy Dioxins and Furans. Suitable NOx control facility shall be provided to meet the prescribed standards
PPs Submission: Complied Regular monitoring of coke oven stack emissions is being done and The Gaseous emissions from Coke ovens are meeting the standards.		Date: 02/05/2025
22	AIR QUALITY MONITORING AND PRESERVATION	The coke oven gas shall be subjected to desulphurization if the sulphur content in the coal exceeds 1%.
PPs Submission: Complied At BSP the imported coal has sulphur content less than 1 Percentage.		Date: 02/05/2025
23	AIR QUALITY MONITORING AND PRESERVATION	Wind shelter piles. fence and chemical spraying shall be provided on the raw material stock piles
PPs Submission: Complied Water sprinklers are installed for control of dust at raw material stock piles		Date:

		02/05/2025
24	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars
PPs Submission: Complied Ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars are installed.		Date: 02/05/2025
25	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install Dry Gas Cleaning Plant with bag filter for Blast Furnace and-SMS convertor- (to be decided on case to case basis depending on type and size of plant)
PPs Submission: Complied At BSP consultant MECON has recommended wet gas cleaning systems for BFs and SMS convertors as the Dry Gas Cleaning Plant are not feasible.		Date: 02/05/2025
26	AIR QUALITY MONITORING AND PRESERVATION	Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke
PPs Submission: Complied Dry quenching (CDQ) system along with power generation facility for waste heat recovery from hot coke has been installed for Coke Oven Battery-11.		Date: 02/05/2025
27	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 3ts(March 2012 {Integrated iron & Steel}; G.S.R 414(E) dated 30 May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act 1986 or NABL accredited laboratories
PPs Submission: Complied continuous effluent monitoring systems have been installed for all three plant outlets Viz Outlet-A, B and C and are connected to SPCB and CPCB online servers Calibration of the systems is being carried-out regularly.		Date: 02/05/2025
28	WATER QUALITY MONITORING AND PRESERVATION	The project Proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometer /sampling wells in the plant and adjacent areas through labs recognised under Environment (protection) act, 1986 and NABL accredited laboratories.
PPs Submission: Complied Ground water quality monitoring at least twice a year (pre and post monsoon) in the adjacent areas through labs recognised under Environment (protection) act, 1986 and NABL accredited laboratories is being carried-out		Date: 02/05/2025
29	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.

PPs Submission: Complied Monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality reports (October-2021 to March-2022) are enclosed (Flag-F)		Date: 02/05/2025
30	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall provide the ETP for coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (integrated iron & Steel); G-S.R 414 (E) dated 30th May 2008 (Sponge Iron) as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time as amended from time to time.
PPs Submission: Complied At BSP ETP for coke oven and by-product plant has been installed and is working effectively and meeting the standards prescribed in G.S.R 277 (E) dated 31st March 2012 (integrated iron and Steel)		Date: 02/05/2025
31	WATER QUALITY MONITORING AND PRESERVATION	Adhere to 'Zero Liquid Discharge'
PPs Submission: Complied BSP has three outlets carrying plant effluent (Outlet-A , B and C). Effluent from outlet-A (About 5000 m3/Hr) is already being recycled and the recycling schemes for Outlet-B (450 m3/hr) and Outlet-C (2500 m3/hr) are in advanced stage of completion.		Date: 02/05/2025
32	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.
PPs Submission: Complied A 30 MLD sewage recycling plant has been installed for treatment of recycling of domestic sewage generated in the Township.		Date: 02/05/2025
33	WATER QUALITY MONITORING AND PRESERVATION	Garland drains and collection pits shall be provided for each stock pile to arrest the runoff in the event of heavy rains and to check the water pollution due to surface run off
PPs Submission: Complied Garland drains and collection pits have been provided at the Raw Material handling area to check the water pollution due to surface run off		Date: 02/05/2025
34	WATER QUALITY MONITORING AND PRESERVATION	Tyre washing facilities shall be provided at the entrance of the plant gates
PPs Submission: Complied Complied.		Date: 02/05/2025
35	WATER QUALITY MONITORING AND PRESERVATION	CO2 injection shall be provided in GCP of SMS to reduce pH in circulating water to ensure optimal recycling of treated water for converter gas cleaning
PPs Submission: Complied At SMS, pH in circulating water of GCPs is being maintained through addition of Use of Dispersant Surfactant. The option of CO2 injection is also being explored.		Date: 02/05/2025
36	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall practice rainwater harvesting to maximum possible extent

PPs Submission: Complied At present rain water harvesting is being done from the rooftops of Plate Mill and Machine Shop-II area. Approx. 71500 m3 rain water is channelized to Maroda-I reservoir through storm water drains. Recharge pits were constructed near 73 existing borewell to arrest the over flow /excess water. Rain Water Harvesting structure were installed at T A Building, Bhilai Niwas, Bhilai Technical Institute, S.S School Sector-VII and G.S.S School-V. 5 Recharge ponds were dug in Bhilai Township (Sector-3 near FSNL, Sector-3 near BTI Hostel, Sector-5 behind Andhra Bhawan, Hospital Sector near D-23, Jayanti Stadium) with recharge bore well at middle bottom of pond at two locations. 1 big recharge pond of about 1 lac m3 capacity was made Behind Bhilai Institute of Technology (BIT) near Bhilai House with bore well at Centre.		Date: 02/05/2025
37	WATER QUALITY MONITORING AND PRESERVATION	Treated water from ETP of CCIBP shall not be used for coke quenching
PPs Submission: Complied At COB11 dry quenching system has been installed.		Date: 02/05/2025
38	WATER QUALITY MONITORING AND PRESERVATION	Water meters shall be provided at the inlet to all unit processes in the steel plants
PPs Submission: Complied Water meters are installed at strategic locations to measure water flow to the process plants.		Date: 02/05/2025
39	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water
PPs Submission: Complied Water consumption in the steel plant is being reduced through adoption of local recycling systems for all the Modernization units (URM,BRM, SMS-3 and BF-8). The effluents from older units are being recycled back to cooling pond after treatment for re-use as industrial water.		Date: 02/05/2025
40	Noise Monitoring & Prevention	Noise monitoring and prevention
PPs Submission: Complied Regular noise monitoring is done at all the potential high noise generating areas like BFs, Power plants, Rolling Mills etc . Acoustic enclosures, silencers etc have been provided at all the high noise zones to prevent workmen to the high noise exposure.		Date: 02/05/2025
41	Noise Monitoring & Prevention	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report
PPs Submission: Complied Noise level survey is being carried as per the prescribed guidelines and report in this regard is enclosed (Flag-G)		Date: 02/05/2025
42	Noise Monitoring & Prevention	The ambient noise levels should conform to the standards prescribed under E(P)A Rules. 1986 viz.75 dB(A) during day time and 70 dB(A) during night time
PPs Submission: Complied Regular Noise monitoring is being done at different locations of township (Market area, schools, hospitals, residential area) and ambient noise levels are meeting the standards (Flag-G)		Date: 02/05/2025
43	ENERGY PRESERVATION	The project proponent shall provide TRTs to recover energy from

	MEASURES	top gases of Blast Furnaces
PPs Submission: Complied At new BF-8, TRTs to recover energy from top gases of Blast Furnace has been installed.		Date: 02/05/2025
44	ENERGY PRESERVATION MEASURES	Coke Dry Quenching (CDQ shall be provided for coke quenching for both recovery and non-recovery type coke ovens
PPs Submission: Complied At new Coke oven Battaery-11, Coke Dry Quenching (CDQ) has been installed		Date: 02/05/2025
45	ENERGY PRESERVATION MEASURES	Waste heat shall be recovered from Sinter Plants coolers and Sinter Machines
PPs Submission: Complied Waste heat recovery systems have been installed for Sinter Plants coolers and Sinter Machines of SP-3.		Date: 02/05/2025
46	ENERGY PRESERVATION MEASURES	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles
PPs Submission: Complied At new BF-8, torpedo ladle is being used for hot metal transfer		Date: 02/05/2025
47	ENERGY PRESERVATION MEASURES	Use hot charging of slabs and billets/blooms as far as possible
PPs Submission: Complied Hot charging of slabs and billets/blooms is being done at Rolling mills.		Date: 02/05/2025
48	ENERGY PRESERVATION MEASURES	Waste heat recovery systems shall be provided in all units where the flue gas or process gas exceeds 300oC
PPs Submission: Complied Waste heat recovery systems have been installed at Sinter Plants, Coke ovens, Blast Furnaces, Power Plants		Date: 02/05/2025
49	ENERGY PRESERVATION MEASURES	Explore feasibility to install WHRS at Waste Gases from BF stoves; Sinter Machine; Sinter Cooler, and all reheating firm aces and if feasible shall be installed
PPs Submission: Complied Waste heat recovery systems have been installed at Sinter Plants, Coke ovens, Blast Furnaces, Power Plants. WHRS systems have also been installed in new units under Modernization In future more such units will be installed based on feasibility.		Date: 02/05/2025
50	ENERGY PRESERVATION MEASURES	Restrict Gas flaring to < 1%
PPs Submission: Complied Complied/Noted.,		Date: 02/05/2025
51	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly

PPs Submission: Complied 2x100 Kw solar power generation on roof tops of Bhilai Niwas has been installed and provision for online monitoring and recording of the power generation has also been developed.		Date: 02/05/2025
52	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential areas
PPs Submission: Complied Extensive use of LED lights in their offices and residential areas is being practiced.		Date: 02/05/2025
53	ENERGY PRESERVATION MEASURES	Ensure installation of regenerative type burners on all reheating furnaces
PPs Submission: Complied regenerative type burners are being used for all reheating furnaces		Date: 02/05/2025
54	WASTE MANAGEMENT	An attrition grinding unit to improve the bulk density of BF granulated slag from 1.0 to 1.5 Kg/ I shall be installed to use slag as river sand in construction industry
PPs Submission: Complied All the BF-Granulated slag generated in BSP is being supplied to Cement Industry. In future if and when there is shortage of demand from Cement Industry BSP will offer the slag to construction industry through a viable mechanism.		Date: 02/05/2025
55	WASTE MANAGEMENT	In case of Non-Recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximise heat recovery
PPs Submission: Complied NA, At BSP the coke ovens are of recovery type.		Date: 02/05/2025
56	WASTE MANAGEMENT	Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens)
PPs Submission: Complied At BSP Tar Sludge is being blended with coal charged in coke ovens and waste lubrication oil is being treated in a separate oil reclamation unit and recycled back after recovery/regeneration. The skimmed oil is being sold to authorized recyclers		Date: 02/05/2025
57	WASTE MANAGEMENT	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed
PPs Submission: Complied Presently BSP is in the process of setting-up a sludge briquetting plant where all the sludges generated from the processes will be used. However BSP will also explore the process of recovery of elemental carbon from GCP sludges in future.		Date: 02/05/2025
58	WASTE MANAGEMENT	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS
PPs Submission: Complied At BSP recovery of scrap, metallic and flux is being done. The recovered scrap , iron fines, Lime fines, Mill scales is being recycled to BF and Sinter plants.		Date: 02/05/2025
59	WASTE MANAGEMENT	Used refractories shall be recycled as far as possible

PPs Submission: Complied Being done.		Date: 02/05/2025
60	WASTE MANAGEMENT	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway hack ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant
PPs Submission: Complied At BSP SMS/BOF slag is being processed into different size fractions and recycled back to Sinter and BF as replacement of flux. BSP is also exploring methodologies for use of BOF slag for road making, railway ballast and other applications. We are seeking the services of Centre for Construction Development and Research National Council for Cement and Building Materials for exploring alternative applications for BOF slag. BSP has given an assignment to NIT-Raipur for assessing the suitability of steel slag as pavement material and feasibility of Steel slag in construction of the rural roads. The final report submitted in June-2021 is being shared with all govt and pvt agencies involved in Construction/road making activities to promote its use as construction/pavement material. Other Central R and D initiatives in SAIL for BOF slag and BF Slag utilization: Pilot scale project on steam maturing of BOF Slag at BSL, Bokaro Field trial on assessing suitability of weathered BOF slag as rail track ballasts at BSL, Bokaro Supply of Air Cooled BF slag for construction of road under Four Laning Project of NH-32 at WB Feasibility study on suitability of BOF Slag for use in cement industry through The Centre for Construction Development and Research of National Council for Cement and Building Materials (NCCBM), under the administrative control of Ministry of Commerce and Industry, Government of India, Study on use of BOF slag as soil ameliorating agent in agriculture through Indian Agricultural Research Institute (IARI), New Delhi. Use of steel slag in Open Graded Asphalt Friction Courses (OGAFC) through Department of Civil Engineering, IIT Guwahati		Date: 02/05/2025
61	WASTE MANAGEMENT	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office
PPs Submission: Complied 100 percent utilization of fly ash as per Fly-ash rules is being followed at BSP. At BSP fly ash generation is very less as the boilers are run mostly on By-product gases generated from steel plant operations. The limited quantity of ash generated is being used for reclamation of low lying areas within the plant premises as per the fly-ash rules.		Date: 02/05/2025
62	WASTE MANAGEMENT	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area
PPs Submission: Complied Being Complied.		Date: 02/05/2025
63	WASTE MANAGEMENT	The waste oil, grease and other hazardous waste like acidic sludge from pickling, galvanising chrome plating mills etc. shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016. Coal tar sludge / decanter shall be recycled to coke ovens
PPs Submission: Complied The acid sludge and other hazardous wastes are disposed of as per the Hazardous and Other waste (Management and Trans boundary Movement) Rules, 2016. Coal tar sludge / decanter is being recycled to coke ovens or sold to authorized recyclers.		Date: 02/05/2025

64	WASTE MANAGEMENT	Kitchen waste shall be composted or converted to biogas for further use
PPs Submission: Complied Kitchen waste is composted and used for Horticulture as manure.		Date: 02/05/2025
65	GREENBELT	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant
PPs Submission: Complied BSP has planted 4412482 nos of trees in an area covering about 1840 hectares till March-2021. In the year 2021-22(April-March), BSP has planted 7080 trees within the plant premises and township covering an area of about 15-20 hectares. In the year 2021-22 BSP has been planted 67080 Trees. 60,000 saplings planted at Township and its surrounding area of Bhilai. Work awarded to C.G. Van Vikas Nigam. Till Sep.-2021 about 6000 trees have been planted. Further Green belt required to be developed to meet the 33 percent criteria is about 280 Hectares . (However by excluding the two reservoirs/cooling ponds area of 1100 hectares from the total area of the project, BSPs green belt coverage comes to 35.48 percentage.		Date: 02/05/2025
66	GREENBELT	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.
PPs Submission: Complied BSP maintains its GHG emissions inventory and also the emission data is submitted to world steel association(WSA) every year under its commitment as member under Climate		Date: 02/05/2025
67	PUBLIC HEARING	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented
PPs Submission: Complied At BSP all departments have prepared their own Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan. The documents are approved by Factory Inspector. Regular mock-drills are organized to check the effectiveness of the EPP/DMPs and are updated based on the mock drill review and also based on recommendations from expert agencies engaged to review the safety management of BSP		Date: 02/05/2025
68	PUBLIC HEARING	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment(PPE) as per the norms of Factory Act
PPs Submission: Complied National occupation Health Centre (NOHC) set-up at BSP regularly carry out heat stress analysis for the workmen who work in high temperature work zone . All the workmen are mandatorily provided with Personal Protection Equipment(PPE) as per the norms of Factory Act		Date: 02/05/2025
69	PUBLIC HEARING	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project
PPs Submission: Complied Complied (At BSP major expansion job has already been completed)		Date: 02/05/2025
70	PUBLIC HEARING	Occupational health surveillance of the workers shall be done on a

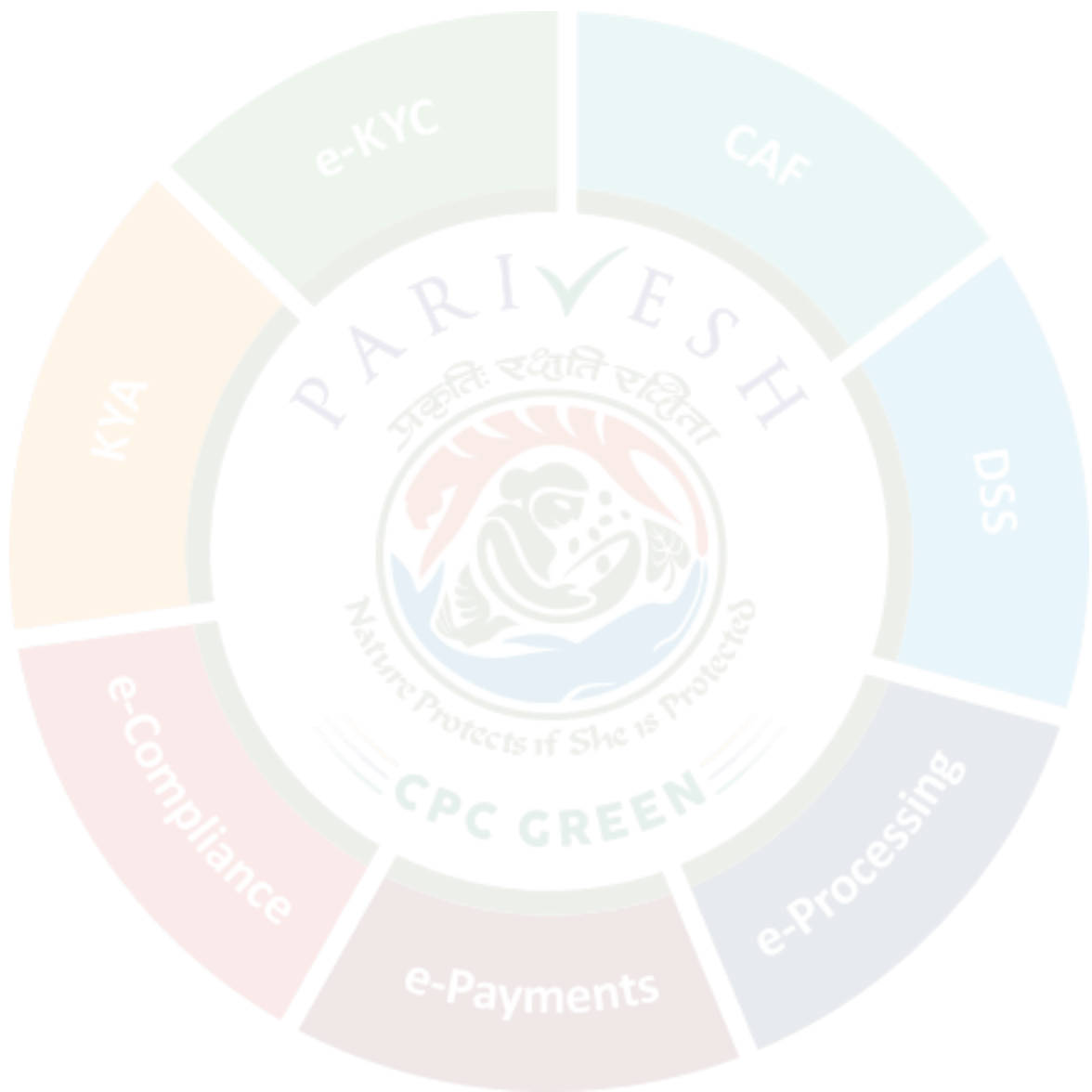
		regular basis and records maintained as per the Factories Act
PPs Submission: Complied Being Complied. Occupational health surveillance of the workers is being done regularly.		Date: 02/05/2025
71	Corporate Environmental Responsibility	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility
PPs Submission: Complied BSP has initiated action for completion of all identified CER activities/projects committed in the reply to the ADS letter dated 02.01.2019. Due to the prevalence of COVID pandemic there has been delay in completion of the projects. However, presently the CER projects are progressing well and likely to be completed by June-2021. A detailed status report on CER activities enclosed at Flag-C		Date: 02/05/2025
72	Corporate Environmental Responsibility	The Company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements / deviation/ violation of the environmental / forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental / forest/ wildlife norms/ conditions and / or shareholders /stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six –monthly report
PPs Submission: Complied BSP has well laid down environmental policy duly approve by the Board of Directors. An SOP for reporting of the non-compliance / infringements to Board of Directors (BoD) is also being followed. Accordingly, Complying to MoEFCC OM dtd. 26th April 2011, status of statutory compliances is reported to Board on quarterly basis and in case of non-compliance received by statutory authorities it is reported to Board along with action plan in the next board meeting. The Board Meetings are held once every month. All the Environment and related Clearances and status of compliances are shown on companys website. Other information: As per the Annexure-IV of the Department of Public Enterprises (DPE) Guidelines on Corporate Governance and Part-A of the Schedule-II of SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, detailed information in respect of fatal or serious accidents, dangerous occurrences, any material effluent or pollution problems, is placed before the Board of Directors of SAIL. As per the Part-A of Schedule-III of Securities Exchange Board of India (SEBI)s (Listing Obligations and Disclosure Requirements) Regulations, 2015, occurrence of emergency, accidents, etc., if material in nature, is disclosed to the Stock Exchanges through Board of Directors within 24 hours.		Date: 02/05/2025
73	Corporate Environmental Responsibility	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization
PPs Submission: Complied BSP has a separate Environmental Department with well-equipped laboratory. Adequate Qualified executive and non-executive personnel have been posted to the department and Lab The department is headed by a senior officer of the rank of General Manger who reports to Executive Director (works). At corporate level a separate environment management Division has been set-up . At corporate level the division is headed by Executive Director who reports to Director (technical)		Date: 02/05/2025
74	Corporate Environmental Responsibility	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.
PPs Submission: Complied Environmental Audits under EMS:ISO:14001 are being carried-out every year through external agencies. The Last Audi was carried-out by M/s.TUV-Nord in August-2020.		Date: 02/05/2025

75	Corporate Environmental Responsibility	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Iron and Steel plants shall be implemented
PPs Submission: Complied Complied		Date: 02/05/2025
76	MISCELLANEOUS	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently
PPs Submission: Complied Complied. Environmental clearance granted to BSP has been placed in the web portal of SAIL.		Date: 02/05/2025
77	MISCELLANEOUS	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt
PPs Submission: Complied Complied		Date: 02/05/2025
78	MISCELLANEOUS	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half yearly basis
PPs Submission: Complied Complied		Date: 02/05/2025
79	MISCELLANEOUS	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company
PPs Submission: Complied Complied. The monitoring data is being displayed at the Company's main gate and in a public place/market area located in Township through large electronic Display Boards. The monitored data is also placed in Company's web portal		Date: 02/05/2025
80	MISCELLANEOUS	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal
PPs Submission: Complied Complied		Date: 02/05/2025
81	MISCELLANEOUS	The project proponent shall submit the environmental statement for each financial year in Form-Y to the concerned State Pollution Control Board as prescribed under the Environment (Protection)

		Rules, 1986, as amended subsequently and put on the website of the company
PPs Submission: Complied Complied		Date: 02/05/2025
82	MISCELLANEOUS	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project
PPs Submission: Complied Complied		Date: 02/05/2025
83	MISCELLANEOUS	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government
PPs Submission: Complied Complied		Date: 02/05/2025
84	MISCELLANEOUS	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee
PPs Submission: Complied Complied		Date: 02/05/2025
85	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and climate Change (MoEF&CC)
PPs Submission: Complied Will be Complied/agreed		Date: 02/05/2025
86	MISCELLANEOUS	Concealing factual data or submission of false /fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment(Protection) Act, 1986
PPs Submission: Complied Agreed		Date: 02/05/2025
87	MISCELLANEOUS	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory
PPs Submission: Complied Agreed		Date: 02/05/2025
88	MISCELLANEOUS	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions
PPs Submission: Complied Agreed		Date: 02/05/2025

89	MISCELLANEOUS	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports
PPs Submission: Complied Agreed		Date: 02/05/2025
90	MISCELLANEOUS	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter
PPs Submission: Complied Agreed		Date: 02/05/2025
91	MISCELLANEOUS	Any appeal against this EC shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010
PPs Submission: Complied Agreed		Date: 02/05/2025
92	Corporate Environmental Responsibility	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of, action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.
PPs Submission: Complied Complied. A detailed action plan for implementation of EMPs along allocation of funds has been prepared and progress is being monitored on regular basis. Copy of the progress of implementation of action plan is enclosed (Flag-H)		Date: 02/05/2025
93	MISCELLANEOUS	Safety mock drill for gas pipeline maintenance shall be conducted every six months and reported to the Regional Office of MoEF and CC. The project proponent shall arrange to provide training to employees on 'behavioral safety'.
PPs Submission: Complied Agreed		Date: 02/05/2025
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		
Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be		

considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent’s reference purpose.



FLAG-A

**Safety
Mock
Drill**

Oct'22 to Mar'23

ENERGY MANAGEMENT DEPARTMENT
BHILAI STEEL PLANT

SUB: MOCK DRILL CONDUCTED AT NEW LD GAS HOLDER FOR SMS3, EMD.

Date:11/11/2022

Incident in Brief:

On 11/11/2022 after noon, EMD Mech group was engaged in bolt revisioning job of Quick acting check valve(QACV) flange of Inlet gas line(5 meters above ground level) at New LD Gas Holder. CO concentration of the site before start of the job was monitored by portable CO monitor found to be normal. At 3.25 PM, Saif Ali, contractual worker who was engaged in above mentioned job noticed sudden leakage of gas from flange due to rupture of packing of the flange. He informed to other group members who were on the same job. The portable CO monitor also started showing concentration above 2000 ppm. The group immediately moved away from the leakage site and came down. Meanwhile, Saif Ali and Doman Lal, both contractual workers felt uneasiness. They sat down on the ground and fell unconscious. Mr Ramesh Yadav, Supervisor, immediately alerted the other group members to move to safer place and report at Assembly point. He went to control room and informed the operators about the incident. T.K Sahu, Operator, informed the incident to Energy Centre and Mrs.U.V.Subhadra(GM & Section i/c). The Siren blown at 3.30 PM by the other operator to alert persons about the abnormal incident. Immediately, all the working persons of Gas Holder complex reported at Assembly point. Meanwhile, Energy Centre shift i/c informed about the incident to various agencies/persons(annexture-1 attached). All the agencies/persons immediately reached at New Gas Holder. Firstly, Fire Brigade rescued the two affected persons and sent to MMP in ambulance. Fire brigade searched the area for any other affected persons and found none. Head counting was carried out at Assembly point and found normal. Meanwhile, CISF had cordoned off the road and affected site. Later on, Gas Safety team arrested the gas leakage and after confirming CO concentration normal in the area, they gave clearance to Mr. B. K. Sinha(GM i/c & Chief Incident Controller)EMD. Finally, the Siren sound was blown to declare normalcy at 3.51 PM. Meanwhile, the gas affected persons were admitted in MMP at 3.54 PM. After giving treatment they were discharged at 4.30 PM from MMP.

Post Mock Drill review Meeting:

Post Mock drill review meeting was held at Gas Holder immediately after the mock drill to discuss about the incident and drill carried out.

Observations:

1. All the persons and agencies reached the site with required preparedness and time.
2. The communication system, rescue & evacuation, cordon off, risk mitigation and medical service found satisfactory.
3. The location board, assembly point, route signage, Siren, wind socks, Emergency control phone numbers, fixed and portable CO monitors, first aid kit and breathing apparatus exist at the site.
4. The Mock drill was conducted satisfactorily.

Recommendation:

1. Step Ladder required at Quick Acting Check Valve platform.
2. Siren sound volume needs to be improved to make it audible to all working persons inside the Gas Holder complex.
3. Director In Charge office needs to be informed prior to mock drill.

MEMBERS PRESENT:

1. B. K. SINHA(GM i/c)EMD
2. S K DASHORE, GM(EMD)
3. U V SUBHADRA, GM, 4 MT operation(EMD)
4. S.RAMANI, GM, Gas safety(EMD)
5. Y Y KONNUR, GM & DSO(EMD)
6. R K SONI, AGM, 4 MT oprn(EMD)
7. SANJAY DHAWAS, DY CFO(FIRE BRIGADE)
8. S R DHARUW Sr Mgr, GS(EMD)
9. V K SHRIVASTAVA Sr Mgr, Mech(EMD)
10. TRIPTI VERMA, AM, Energy CentreAM(EMD)
11. J L MESHRAM, MGR(SED)
12. SWATANTRA KUMAR, MASTER INST(CIVIL DEFENCE HRDC)
13. H S SHUKLA, ASI/Exe(CISF)


Y Y KONNUR
GM&DSO(EMD)

S.NO	AGENCY/PERSON	INFORMED TIME	ARRIVAL TIME
1	Information to Energy centre and Section I/C by Gas Holder operator.	3.31 pm	3.41 pm(section I/C)
	Information by Energy Centre to following agencies/persons		
2	Fire brigade	3.31 pm	3.41 pm
3	MMP	3.31 pm	3.43 pm
4	Gas Safety	3.31 pm	3.43 pm
5	CISF	3.31 pm	3.43 pm
6	HOD	3.32 pm	3.42 pm
7	DSO	3.32 pm	3.42 pm
8	SED	3.34 pm	3.44 pm
9	Civil Defence	3.34 pm	3.44 pm
10	Plant control	3.34 pm	-
11	Energy centr I/C	3.35 pm	-

T. T. Kumar

T. T. Kumar
T. T. KUMAR
(Signature)

FLAG-B

Safety Training Details

Oct'22 to Mar'23

ലിജിസ്റ്റർ വർക്കർമാർക്ക്
 സുരക്ഷാ പരിശീലനം

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നൂറ് 31-10-22

ഫോട്ടോ: % ക്ലൈം ലിജിസ്റ്റർ ഓഫീസ് ഫ്രോം വെബ്സൈറ്റ് 2022

Safety Training For Non-Executives:

S.NO	Module	# Prog	Date	#Participant	Total #
1.	Safety Training On Human Factor.	7	11.10.22	24	158
			12.10.22	22	
			13.10.22	26	
			14.10.22	24	
			15.10.22	23	
			27.10.22	19	
			28.10.22	20	
2.	Defensive Driving-Two wheeler	4	01.10.22	30	81
			15.10.22	19	
			22.10.22	19	
			29.10.22	13	
3.	DIC Induction.	6	17.10.22	26	140
			18.10.22	23	
			19.10.22	28	
			20.10.22	23	
			21.10.22	20	
			22.10.22	20	
Total Number of Programme Conducted		17	Total Participants =		379

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Standard's Awareness On Permit to Work.	1	06.10.22	26	26
2.	Standard's Awareness On Confines Space.	1	07.10.22	20	20
3.	Under Standing Your Culture	7	11.10.22	24	139
			12.10.22	19	
			13.10.22	26	
			14.10.22	17	
			17.10.22	17	
			18.10.22	18	
			19.10.22	18	
4.	TTT On Energy Isolation.	1	27.10.22 – 29.10.22	08	08
5.	Safety Training On Human Factor	1	10.10.22	26	26
6.	Standard's Awareness On HIRA/JSA.	1	27.10.22	22	22
Total Number of Programme Conducted		12	Total Participants =		241

Safety Training For Contractor Workers:

S.NO	Module	# Prog	Date	#Participant	#Total
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1.	Safety Training On Human Factor	1	29.10.22	32	32
Total Number of Programme Conducted		1	Total Participants =		32

Summary:

- * **TOTAL PROGRAMS (For Regular Employees) ORGANISED IN OCT.-2022: 29 (17 NE + 12 Exe.)**
- * **TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN OCT. -2022: 620 (379 NE & 241 Exe.)**
- * **Safety Training for Contract Workers at Works Area in OCT. 2022: #Prog: 29 Participants 407**

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-2022-23 (01.04.22-31.10.22)	89	78	1366	1968	3334
Cal. Year-2022 (01.01.22-31.10.22)	105	108	1503	2645	4148

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Safety Training For Non-Executives:

S.NO	Module	# Prog	Date	#Participant	Total #
1.	Safety Training On Human Factor.	5	01.11.22	29	135
			04.11.22	28	
			05.11.22	26	
			21.11.22	27	
			22.11.22	25	
2.	Safety In Traffic Operation.	1	03.11.22	19	19
3.	Safety Training For Crane Operators.	1	17.11.22	31	31
4.	Gas Safety In Steel Industries.	1	24.11.22	28	28
5.	Human Factor Trg. For BRM	1	16.11.22	20	20
6.	Safety Circle Training.	1	29.11.22	23	23
Total Number of Programme Conducted		10	Total Participants =		256

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Under Standing Your Culture	3	10.11.22	14	51
			11.11.22	21	
			12.11.22	16	
2.	TTT On HIRS/JSA.	1	07.11.22 to 09.11.22	08	08
3.	TTT On PPE’s	1	10.11.22 to 12.11.22	08	08
4.	Training By ‘National Safety Council’.	1	09.11.22 to 11.11.22	15	15
5.	Standard’s Awareness On High Hazard Process.	1	14.11.22	22	22
6.	Standard’s Awareness On Confined Space.	1	15.11.22	19	19
7.	Interaction On Safety Encouragement & Engagement.	1	16.11.22	22	22
8.	Standard’s Awareness On Working at Height.	1	23.11.22	25	25
9.	Standard’s Awareness On Permit to Work.	1	28.11.22	19	19
10.	Defensive Driving-Four wheeler	3	12.11.22	19	47
			19.11.22	13	
			26.11.22	15	
Total Number of Programme Conducted		14	Total Participants =		236

Safety Training For Contractor Workers:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Safety Training On Human Factor	2	25.11.22	25	54
			26.11.22	29	
2.	Safety Training For Shunting Staff of T & D	1	02.11.22	20	20
Total Number of Programme Conducted		3	Total Participants =		74

Summary:

- * **TOTAL PROGRAMS (For Regular Employees) ORGANISED IN NOV.-2022: 24 (10 NE + 14 Exe.)**
- * **TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN NOV. -2022: 492 (256 NE & 236 Exe.)**
- * **Safety Training for Contract Workers at Works Area in NOV. 2022: #Prog: 26 Participants 489**

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-2022-23 (01.04.22-30.11.22)	103	88	1602	2224	3826
Cal. Year-2022 (01.01.22-30.11.22)	119	118	1739	2901	4640

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Safety Training For Non-Executives:

S.NO	Module	# Prog	Date	#Participant	Total #
1.	Safety Training On Human Factor.	4	05.12.22	27	109
			06.12.22	30	
			07.12.22	29	
			08.12.22	23	
2.	Safety In Traffic Operation.	2	01.12.22	15	28
			26.12.22	13	
3.	Chemical Safety For COCCD.	1	02.12.22	23	23
4.	Defensive Driving For Two Wheelers	4	03.12.22	13	61
			10.12.22	16	
			17.12.22	18	
			24.12.22	14	
5.	Gas Safety In Steel Industries.	1	16.12.22	28	28
6.	DIC Induction	4	20.12.22	18	87
			21.12.22	24	
			22.12.22	23	
			23.12.22	22	
Total Number of Programme Conducted		16	Total Participants =		336

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Standard's Awareness On HIRA & JSA.	1	01.12.22	28	28
2.	Standard's Awareness On Permit to Work.	1	09.12.22	26	26
3.	Standard's Awareness On HHP.	1	12.12.22	19	19
4.	Standard's Awareness On Confined Space.	1	13.12.22	14	14
5.	Standard's Awareness On PPE's.	1	14.12.22	17	17
6.	Standard's Awareness On Working At Height.	1	15.12.22	17	17
7.	Interaction On Safety Encouragement & Engagement (i-SEE).	1	19.12.22	21	21
8.	Safety Circle Training.	1	24.12.22	21	21
Total Number of Programme Conducted		8	Total Participants =		163

Safety Training For Contractor Workers:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Safety Training For Shunting Staff of T & D	1	27.12.22	20	20
Total Number of Programme Conducted		1	Total Participants =		20

Summary:

* **TOTAL PROGRAMS (For Regular Employees) ORGANISED IN DEC.-2022: 24 (16 NE + 8 Exe.)**

* **TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN DEC. -2022: 498 (336 NE & 163 Exe.)**

* **Safety Training for Contract Workers at Works Area in DEC. 2022: # Prog : 32 Participants: 469**

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-2022-23 (01.04.22-31.12.22)	111	104	1765	2560	4325
Cal. Year-2022 (01.01.22-31.12.22)	127	134	1902	3237	5139

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Safety Training For Non-Executives:

S.NO	Module	# Prog	Date	#Participant	Total #
1.	Safety Training On Human Factor.	2	04.01.23	29	60
			05.01.23	31	
2.	Safety In Traffic Operation.	1	06.01.23	17	17
3.	Defensive Driving For Two Wheelers	3	07.01.23	25	67
			21.01.23	24	
			28.01.23	18	
4.	Achieving Awareness In Occupational Health & First Aid.	1	27.01.23	39	39
5.	Safety Circle Training.	1	28.01.23	21	21
Total Number of Programme Conducted		8	Total Participants =		204

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Standard's Awareness On Confined Space.	1	09.01.23	24	24
2.	Standard's Awareness On Electrical safety.	1	10.01.23	24	24
3.	Standard's Awareness On HIRA & JSA.	1	11.01.23	27	27
4.	Interaction On Safety Encouragement & Engagement (i-SEE).	1	16.01.23	26	26
5.	Standard's Awareness On PPE's.	1	17.01.23	21	21
6.	Standard's Awareness On Working At Height.	1	18.01.23	25	25
7.	Standard's Awareness On Permit to Work.	1	19.01.23	23	23
8.	Standard's Awareness On HHP.	1	23.01.23	16	16
9.	Defensive Driving-Two-Wheeler	1	13.01.23	20	20
Total Number of Programme Conducted		9	Total Participants =		206

Safety Training For Contractor Workers:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Safety Refresher Training For Contractor Workers.	1	02.01.23	25	73
2.	Safety Training On Human Factor For Contractor Workers	1	03.01.23	26	
3.	Safety Training For Shunting Staff of T & D	1	30.01.23	22	
Total Number of Programme Conducted		3	Total Participants =		73

Summary:

- * TOTAL PROGRAMS (For Regular Employees) ORGANISED IN JAN.-2023: 17 (8 NE + 9 Exe.)
- * TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN JAN. -2023: 410 (204 NE & 206 Exe.)
- * Safety Training for Contract Workers in JAN. 2023: # Prog : 3 Participants: 73
- * Safety Training for Contract Workers at Works Area in JAN. 2023: # Prog : 46 Participants: 598

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-2022-23 (01.04.22-31.01.23)	120	112	1971	2764	4735
Cal. Year-2023 (01.01.23-31.01.23)	9	8	206	204	410

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Safety Training For Non-Executives:

S.NO	Module	# Prog	Date	#Participant	Total #
1.	Safety Training On Human Factor.	3	02.02.23	33	88
			03.02.23	32	
			20.02.23	23	
2.	Safety In Traffic Operation.	1	15.02.23	13	13
3.	Defensive Driving For Two Wheelers	4	04.02.23	19	67
			11.02.23	20	
			17.02.23	14	
			25.02.23	14	
4.	Gas Safety In Steel Industry.	1	09.02.23	28	28
5.	Safety In Material Handling.	1	10.02.23	30	30
6.	Safety Circle Training.	1	23.02.23	14	14
7	Safety Training On Human Factor.(For M. Mill)	3	13.02.23	25	69
			14.02.23	24	
			15.02.23	20	
Total Number of Programme Conducted		14	Total Participants =		309

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Standard’s Awareness On Confined Space.	1	06.02.23	15	15
2.	Standard’s Awareness On Electrical safety.	1	07.02.23	20	20
3.	Standard’s Awareness On Permit to Work.	2	08.02.23	22	37
			22.02.23	15	
4.	Standard’s Awareness On Energy Isolation.	1	13.02.23	26	26
5.	Standard’s Awareness On PPE’s.	1	14.02.23	17	17
6.	Interaction On Safety Encouragement and Engagement. (i-SEE)	1	16.02.23	16	16
7.	Standard’s Awareness On Working at Height.	1	21.02.23	22	22
8.	Standard’s Awareness On HIRA/JSA.	1	27.02.23	16	16
9.	Intensified Safety Training For Executives	1	22.02.23	20	20
10.	‘e- Software’ Hand Holding Prog.	2	27.02.23	25	25
			28.02.23	33	33
Total Number of Programme Conducted		12	Total Participants =		247

Safety Training For Contractor Workers:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Safety Refresher Training For Contractor Workers.	1	01.02.23	35	59
2.	Safety Training For Shunting Staff of T & D	1	24.02.23	24	
Total Number of Programme Conducted		2	Total Participants =		59

Summary:

- * **TOTAL PROGRAMS (For Regular Employees) ORGANISED IN FEB.-2023: 26 (14 NE + 12 Exe.)**
- * **TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN FEB. -2023: 556 (309 NE & 247 Exe.)**
- * **Safety Training for Contract Workers in FEB. 2023: # Prog : 2 Participants: 59**
- * **Safety Training for Contract Workers at Works Area in FEB. 2023: # Prog : 21 Participants: 284**

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-2022-23 (01.04.22-28.02.23)	132	126	2218	3073	5291
Cal. Year-2023 (01.01.23-28.02.23)	21	22	453	513	966

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Safety Training For Non-Executives

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Safety Training For Non-Executives:

S.NO	Module	# Prog	Date	#Participant	Total #
1.	Safety Training On Human Factor.	2	07.03.23	24	57
			10.03.23	33	
2.	Safety In Traffic Operation.	1	06.03.23	12	12
3.	Defensive Driving For Two Wheelers	4	03.03.23	26	72
			11.03.23	14	
			18.03.23	17	
			25.03.23	15	
4.	Gas Safety In Steel Industry.	1	27.03.23	27	27
5.	Safety In Material Handling.	1	23.03.23	21	21
6.	Safety Circle Training.	1	28.03.23	30	30
7.	Safety In Crane Operation & Maintenance.	1	16.03.23	21	21
8.	Achieving Awareness In Occupational Health & First Aid.	1	24.03.23	32	32
9	Interaction On Safety Encouragement and Engagement. (i-SEE)- For Safety Warriors	2	15.03.23	25	25
			22.03.23	26	26
Total Number of Programme Conducted		14	Total Participants =		323

Safety Training For Executives:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Standard's Awareness On Electrical safety.	1	02.03.23	23	23
2.	Standard's Awareness On Permit to Work.	1	13.03.23	13	13
3.	Standard's Awareness On Energy Isolation.	1	14.03.23	23	23
4.	Standard's Awareness On HIRA/JSA.	1	20.03.23	21	21
5.	Standard's Awareness On Working at Height.	1	21.03.23	20	20
6.	'e- Software' Hand Holding Prog.	3	01.03.23	35	101
			02.03.23	30	
			04.03.23	36	
Total Number of Programme Conducted		8	Total Participants =		201

Safety Training For Contractor Workers:

S.NO	Module	# Prog	Date	#Participant	#Total
1.	Safety Refresher Training For Contractor Workers.	1	01.03.23	38	54
2.	Safety Training For Shunting Staff of T & D	1	17.03.23	16	
3.	Safety Training On Human Factor	2	29.03.23	27	46
			30.03.23	19	
Total Number of Programme Conducted		4	Total Participants =		100

Summary:

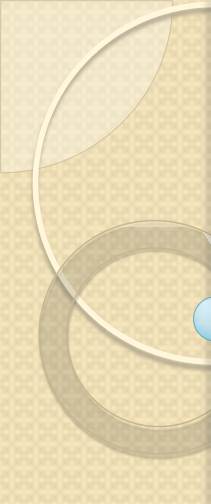
- * **TOTAL PROGRAMS (For Regular Employees) ORGANISED IN MARCH-2023: 22 (14 NE + 8 Exe.)**
- * **TOTAL PARTICIPANTS (REG. Employees) ATTENDED IN MARCH -2023: 524 (323 NE & 201 Exe.)**
- * **Safety Training for Contract Workers in MARCH 2023: # Prog : 4 Participants: 100**
- * **Safety Training for Contract Workers at Works Area in MARCH 2023: # Prog : 37 Participants:643**

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-2022-23 (01.04.22-31.03.23)	140	140	2419	3396	5815
Cal. Year-2023 (01.01.23-31.03.23)	29	36	654	836	1490

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FLAG-C

Corporate Environment Responsibility

Status As On March 2023



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

(Status as on March 2023)

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 March 2023)
1.	BSP	Selud, Durg	I. New Bore well fitted with Solar operated pump with storage tank at three places to be provided.	15.00	Completed.To be handed over to Sarpanch.
			II. Four Seater Sulabh Shauchalya at Bazar Chowk to be constructed.	6.00	Completed.To be handed over to Sarpanch.
			III. Sports equipments for boys and girls to be provided.	0.50	Completed. Handed over to School.

S. N o.	SAIL Plant /Unit	Location	Name of Project/Activity (Brief detail of the project, duration)	Approx.Amount earmarked for the project	Status (as on March 2023)
2.	BSP	Khapri (Kutelabhata),Durg	I. Construction of Boundary wall of Panchayat Bhawan along with tree plantation all around the periphery .	10.00	Completed. Handed over to Sarpanch.
			II. New Bore wells at 2 locations fitted with Solar operated Pumps to be provided.	10.00	Completed. Handed over to Sarpanch.
			III. Two extra rooms in Govt. Primary School to be constructed.	10.00	Completed. Handed over to Sarpanch.
			IV. Dustbin for 10 villages to be provided	0.50	Completed. Handed over to Sarpanch.
			V. Beautification and tree plantation around Shitala Talab to be provided.	2.00	Completed. Handed over to Sarpanch.

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 March 2023)
3.	BSP	Dumardih, Durg	I. Service road from main road cremation ground approx..700 meters to be cemented	10.00	Completed. Handed over to Sarpanch.
			II. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Completed. Handed over to Sarpanch.
4.	BSP	Pauwara, Durg	I. Sanitary Pad Machine women group to be provided	3.00	Tendering process for the same in progress.
			II. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Not started by Contractor. Re-tendering work is in process.
			III. Tree plantation at new talab to be provided	1.00	Completed. Handed over to Sarpanch.
			IV. Funds to be provided Sarpanch for cleaning of Wells with supervision / monitoring by BSP.	1.00	Completed. Handed over to Sarpanch.
			V. Syntax tank with pump to be provided at Health Center.	0.25	Completed. Handed over to Sarpanch.

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 March 2023)
5.	BSP	Muskan ,Durg	I. Garage for School Bus at Muskan School to be constructed.	1.00	Completed. To be handed over to School.
6.	BSP	Patora, Durg	I. Four Seater Sulabh Shauchalya at Govt. Middle school for boys to be constructed.	3.00	Completed.To be handed over to Sarpanch.
			II. Boundary wall at high school of length 165 meter shall be constructed. CC road to be constructed.	15.00	Not started by Contractor. Re-tendering work is in process.
7.	BSP	Dhuara bhatta, Durg	I. Four seater Sulabh Shauchalya at Khadan Talab for both men and women to be constructed.	12.00	Completed.To be handed over to Sarpanch.
			II. Additional 2 class rooms at High school premise to be constructed.	10.00	Completed. To be handed over to School
			III. Boundary wall of approx. - 380 meters to be constructed at high school premise.	20.00	Completed. To be handed over to School
			IV. Construction of separate		Completed To be handed

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 March 2023)
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	Completed.To be handed over to Sarpanch.
			II. C.C. road to be constructed at ward no 05 for approx. 250 meters.	4.00	Completed.To be handed over to Sarpanch..
			III. C.C. road to be constructed at ward no 04 for approx. 250 meters.	4.00	Completed.To be handed over to Sarpanch.
			IV. Four seater Sulabh Shauchalya for boys and girls to be constructed.	12.00	Completed.To be handed over to Sarpanch.
9.	BSP	Aundhi,Durg	I. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Completed.To be handed over to Sarpanch.
			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.To be handed over to Sarpanch.
10.	BSP	Pahandor, Durg	I. New Bore wells at required location fitted with solar operated Pumps to be provided.	10.00	Completed.To be handed over to Sarpanch..
			II Pipeline for drinking water		Not started by Contractor

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 March 2023)
11.	BSP	Bhilai, Durg	I. One E-rickshaw to be provided facilitate the plantation activities	3.00	Completed. Handed over
			II. One Power driven portable drilling machine facilitate the plantation activities	1.00	Completed. Handed over
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.To be handed over to Sarpanch.
			II. Four seater Sulabh Shauchalya for men and women to be constructed	12.00	Completed.To be handed over to Sarpanch.
			Total	232.25	

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
October 2022 to March 2023

FLAG E

E-1

Stack emission

BHILAI STEEL PLANT
October 2022 to March 2023

Month- October 2022

Stack emission											
Name of the Plant (1)	Stack connecte d 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/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
Blast Furnace											
BF-4 (Process)	Stoves	60	2.5	--do--	15 Oct, 11:00-12:05 (65 Minute)	2555	121488	18.81	122.50	136.80	0.65% V/V
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	19 Oct, 11:00-11:35 (35 Minute)	1920	116632	46.77	68.20	-	-
LF-2	Ladle Furnace	50	1.5	Bag Filter	17 Oct, 11:00-11:40 (40 Minute)	2160	121989	38.66	72.86	-	-
SMS-3											
SMS – 3 (DDSY (Secondary)	Liquid Steel	-	-	-	25 Oct, 11:00-11:35 (35 Minute)	-	-	44.23	-	-	-
Stack emission											
Name of the Plant (1)	Stack connecte d 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 g/Nm3)	SO ₂ (Norm: 800mg /Nm3)	NO _x (Norm:5 00mg/N m3)	CO (Norm: 3 kg/T of Coke
Coke Oven											
Battery No. 3	Battery	100	3.5	Nil	13 Oct, 10:45-11:45	384	128580	44.20	169.30	198.50	

BHILAI STEEL PLANT
October 2022 to March 2023

					(60 Minute)						2.50Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	14 Oct, 10:00-11:00 (60 Minute)	625	131561	45.96	148.30	154.00	2.59Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	14 Oct, 11:20-12:20 (60 Minute)	625	119744	47.45	155.80	168.30	2.61Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	12 Oct, 11:00-12:00 (60 Minute)	1226	234301	44.56	142.60	162.90	2.68Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	01 Oct, 10:50-11:50 (60 Minute)	1407	238881	37.78	41.30	98.50	2.63Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	03 Oct, 11:00-12:00 (60 Minute)	1829	189974	43.63	165.00	105.00	2.52Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorption Tower	21 Oct, 09:30-10:20 (50 Minute)	76	9978	-	1.716 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)	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 (Norm: 600mg /Nm3)	NO _x (Norm: 600mg/ Nm3)	CO
SP-2											
SP-2 (M/c-1)	Sintering Machine	100	6	Multi-Cyclone	19 Oct, 11:45-12:20 (35 Minute)	2001	255633	46.42	63.38	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	07 Oct, 10:40-11:20 (40 Minute)	6706	490246	39.78	-	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	08 Oct, 10:20-11:00 (40 Minute)	5017	464596	43.87	-	-	-
SP-3, M/c-2 (Space de-dusting)				ESP	20 Oct, 11:30-12:10 (40 Minute)	-	-	48.27			

BHILAI STEEL PLANT
October 2022 to March 2023

TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	04 Oct, 09:30-10:15 (45 Minute)	2402	120000	35.28	127.70	143.80	-
Boiler 2	Boiler	80	4.3	ESP	04 Oct, 10:20-11:00 (40 Minute)	2390	116469	41.50	60.90	65.60	
Boiler 3	Boiler	80	4.3	Wet Scrubber	05 Oct, 09:45-10:30 (45 Minute)	2005	86932	39.15	53.50	98.40	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	18 Oct, 10:00-10:40 (40 Minute)	2050	87096	38.07	63.90	83.50	-
Boiler 6	Boiler	80	4.3	ESP	21 Oct, 11:00-11:40 (40 Minute)	1705	332585	36.71	122.00	127.40	-
Mills											
URM	RHF	-	-	-	24 Oct, 08:30-09:30 (60 Minute)	-	-	19.42	-	-	
BRM	RHF	-	-	-	22 Oct, 11:00-12:00 (60 Minute)	-	-	18.13	-	-	

BHILAI STEEL PLANT
October 2022 to March 2023

November 2022

A.		Stack emission									
Name of the Plant (1)	Stack connecte d 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/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
Blast Furnace											
BF-5 (Process)	Stoves	60	3.5	GCP (Scrubber)	03 Nov, 11:30-12:30 (60 Minute)	936	117251	23.10	154.30	143.90	0.68% V/V
BF-5 (Space dedusting)				Bag filter	26 Nov, 10:30-11:15 (45 Minute)	-	-	35.55	-	-	-
BF-6 (Space dedusting)				Bag filter	25 Nov, 11:15-12:15 (60 Minute)	-	-	33.25	-	-	-
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	02 Nov, 10:35-11:15 (30 Minute)	1920	114600	48.73	78.94	-	-
LF-2	Ladle Furnace	50	1.50	Bag Filter	01 Nov, 10:50-11:30 (40 Minute)	3360	120278	41.17	67.28	-	-
SMS-3											
SMS -3 (DDSY (Secondary))	Liquid Steel	-	-	-	15 Nov, 11:30-12:05 (35 Minute)	-	-	47.97	-	-	-
A.		Stack emission									
Name of the Plant (1)	Stack connecte d 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 g/Nm3)	SO ₂ (Norm: 800mg /Nm3)	NO _x (Norm:5 00mg/N m3)	CO (Norm: 3 kg/T of Coke

BHILAI STEEL PLANT
October 2022 to March 2023

Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	29 Nov, 10:30-11:30 (60 Minute)	815	129849	36.56	330.00	223.00	2.46Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	16 Nov, 11:00-12:00 (60 Minute)	793	122865	44.06	223.80	114.60	2.52Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	17 Nov, 11:40-12:40 (60 Minute)	849	127134	39.20	159.85	161.00	2.58Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	17 Nov, 10:30-11:30 (60 Minute)	849	122402	42.56	162.30	174.90	2.62Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	04 Nov, 11:00-12:00 (60 Minute)	1206	242357	42.26	144.80	164.60	2.65Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	18 Nov, 11:30-12:30 (60 Minute)	1528	233328	41.62	220.50	186.80	2.59Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	05 Nov, 10:00-11:00 (60 Minute)	1829	193916	43.59	138.90	110.00	2.58Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorption Tower	14 Nov, 11:10-11:50 (40 Minute)	81	8508	-	2.064 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)	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 (Norm: 600mg /Nm3)	NO _x (Norm: 600mg/ Nm3)	CO
SP-2											
SP-2 (M/c-1)	Sintering Machine	100	6	Multi-Cyclone	08 Nov, 11:10-11:45 (35 Minute)	2035	250490	43.43	61.23	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	07 Nov, 11:30-12:15 (45 Minute)	7406	492797	42.82	-	-	-

BHILAI STEEL PLANT
October 2022 to March 2023

SP-3 (M/c-2)	Sintering Machine	120	7	ESP	09 Nov, 10:40-11:20 (40 Minute)	8540	489505	44.87	-	-	-
RMP-2											
RK	Rotary Kiln	60	2	Wet Scrubber	22 Nov, 11:15-12:00 (45 Minute)	117	58612	42.69	66.30	-	-
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	10 Nov, 10:50-11:35 (45 Minute)	2495	121501	43.00	135.40	160.60	-
Boiler 2	Boiler	80	4.3	ESP	10 Nov, 11:45-12:20 (35 Minute)	2625	116709	39.31	63.73	69.25	
Boiler 3	Boiler	80	4.3	Wet Scrubber	11 Nov, 10:15-10:55 (40 Minute)	1958	86311	43.56	56.95	60.23	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	11 Nov, 11:00-11:40 (40 Minute)	2080	86153	42.64	61.30	83.50	-
Boiler 6	Boiler	80	4.3	ESP	19 Nov, 11:50-12:35 (45 Minute)	1998	323847	36.40	121.80	126.00	-
Mills											
Merchant Mill	RHF	-	-	-	21 Nov., 11:30-12:30 (60 Minute)	-	-	17.65	-	-	
BRM	RHF	-	-	-	24 Nov., 11:00-12:00 (60 Minute)	-	-	17.37	-	-	

BHILAI STEEL PLANT
October 2022 to March 2023

Month- December 2022

A.		Stack emission									
Name of the Plant (1)	Stack connecte d 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/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
Blast Furnace											
BF-6 (Process)	Stoves	60	3.5	--do--	08 Dec, 11:15-12:15 (60 Minute)	2026	124326	26.13	128.60	145.40	0.72% V/V
BF-7 (Process)	Stoves	70	3.5	--do--	23 Dec, 10:00-11:00 (60 Minute)	3682	112862	21.14	126.80	142.60	0.67% V/V
BF-8) (Process)	Stoves			--do--	17 Dec, 11:15-12:15 (60 Minute)	7368	168007	22.12	138.50	145.72	0.64% V/V
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	06 Dec, 11:15-11:50 (35 Minute)	2640	117373	48.76	48.70	-	-
LF-2	Ladle Furnace	50	1.50	Bag Filter	12 Dec, 12:00-12:45 (45 Minute)	2530	112417	35.19	61.50	-	-
SMS-3											
SMS –3 (DDSY (Secondary))		Liquid Steel	-	-	ESP	23 Dec, 11:40-12:15 (35 Minute)	-	-	46.97	-	-
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	SO ₂ (Norm: 800mg/	NO _x (Norm:5 00mg/N	CO (Norm: 3 kg/T of

October 2022 to March 2023

								/Nm3)	Nm3,	m3)	Coke
Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	15 Dec, 10:30-11:30 (60 Minute)	614	119183	43.63	146.90	174.00	2.51Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	15 Dec, 11:45-12:45 (60 Minute)	635	128347	35.78	221.72	183.60	2.53Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	01 Dec, 12:00-01:00 (60 Minute)	827	129711	37.08	208.00	226.00	2.60Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	24 Dec, 11:00-12:00 (60 Minute)	674	131415	34.45	442.78	317.72	2.69Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	24 Dec, 12:15-01:10 (55 Minute)	681	137802	36.34	372.04	131.60	2.72Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	05 Dec, 11:30-12:30 (60 Minute)	1126	235671	44.56	180.60	198.20	2.68Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	05 Dec, 12:40-01:40 (60 Minute)	1186	232511	42.59	214.30	189.40	2.63Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	07 Dec, 11:00-12:00 (60 Minute)	1769	190990	40.16	160.32	145.70	2.73Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorption Tower	28 Dec, 10:30-11:20 (50 Minute)	66	8082	-	2.18 Kg/T H ₂ SO4	-	-
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 (Norm: 600mg/Nm3)	NO _x (Norm: 600mg/Nm3)	CO
SP-2											
SP-2 (M/c-1)	Sintering Machine	100	6	ESP	27 Dec, 11:00-11:35 (35 Minute)	1449	253721	46.37	69.20	-	-
SP-3											

BHILAI STEEL PLANT
October 2022 to March 2023

SP-3 (M/c-1)	Sintering Machine	120	7	ESP	16 Dec, 11:40-12:25 (45 Minute)	8563	483240	39.42	71.35	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	21 Dec, 11:50-12:35 (45 Minute)	4103	454032	44.05	74.61	-	-
RMP-2											
RK	Rotary Kiln	60	2	Wet Scrubber	15 Dec, 12:00-12:45 (45 Minute)	110	59165	41.46	62.50	-	-
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	10 Dec, 10:00-10:45 (45 Minute)	2016	119646	35.50	128.60	164.20	-
Boiler 2	Boiler	80	4.3	ESP	10 Dec, 11:05-11:50 (45 Minute)	2128	117305	38.37	125.00	136.80	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	19 Dec, 10:30-11:15 (45 Minute)	1826	86699	41.78	89.32	79.53	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	02 Dec, 11:30-12:45 (45 Minute)	2083	86658	39.84	76.50	81.10	-
Boiler 5	Boiler	80	4.3	ESP	30 Dec, 11:30-12:10 (40 Minute)	2310	120206	39.57	84.50	126.00	-
Boiler 6	Boiler	80	4.3	ESP	19 Dec, 11:25-12:10 (45 Minute)	1833	335720	39.22	126.20	137.00	-
Mills											
WRM	RHF	-	-	-	27 Dec., 12:00-01:00 (60 Minute)	-	-	21.16	-	-	-
Rail Mill	RHF	-	-	-	22 Dec., 12:05-01:05 (60 Minute)	-	-	19.39	-	-	-
Plate Mill	RHF	-	-	-	26 Dec., 02:00-03:00 (60 Minute)	-	-	19.19	-	-	-
BRM	RHF	-	-	-	22 Dec., 10:45-11:45 (60 Minute)	-	-	20.26	-	-	-

BHILAI STEEL PLANT
October 2022 to March 2023

Month-January'23

Stack emission											
Name of the Plant (1)	Stack connecte d 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/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
Blast Furnace											
BF-8 (Process)	Stoves	70	3.5	--do--	07 Jan, 12:20-01:20 (60 Minute)	7814	171452	22.00	197.00	49.30	0.59% V/V
BF-7 (Space dedusting)				GCP (Scrubber)	27 Jan, 11:55-12:35 (40 Minute)	-	-	48.43	-	-	-
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	11 Jan, 11:15-11:45 (30 Minute)	2400	117146	48.54	62.90	-	-
LF-2	Ladle Furnace	50	1.50	Bag Filter	02 Jan, 11:05-11:50 (45 Minute)	3120	116157	42.19	74.80	-	-
SMS-3											
SMS –3 (DDSY (Secondary))	Liquid Steel	-	-	ESP	20 Jan, 11:00-11:35 (35 Minute)	-	-	39.58	-	-	-
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 (Norm: 800mg/ Nm3)	NO _x (Norm:5 00mg/N m3)	CO (Norm: 3 kg/T of Coke)

BHILAI STEEL PLANT
October 2022 to March 2023

Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	09 Jan, 09:50-10:50 (60 Minute)	838	133791	44.37	428.00	170.50	2.44Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	09 Jan, 11:05-12:05 (60 Minute)	838	122513	47.54	159.00	211.00	2.51Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	16 Jan, 11:35-12:35 (60 Minute)	916	124038	41.30	230.60	210.00	2.62Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	17 Jan, 11:15-12:15 (60 Minute)	793	121088	45.49	377.00	112.80	2.58Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	17 Jan, 12:30-01:30 (60 Minute)	759	127074	42.82	407.00	148.50	2.66Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	24 Jan, 11:30-12:30 (60 Minute)	1588	223666	38.85	227.00	193.64	2.63Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	12 Jan, 12:05-04:05 (60 Minute)	1588	204207	41.44	260.80	153.00	2.65Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	03 Jan, 11:00-12:00 (60 Minute)	1809	187543	42.04	158.85	149.50	2.71Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorption Tower	31 Jan, 11:00-11:50 (50 Minute)	90	10229	-	1.834 Kg/T H ₂ SO4	-	-
A.	Stack emission										
Name of the Plant (1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diame ter 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 (Norm: 600mg/ Nm3)	NO _x (Norm: 600mg/N m3)	CO
SP-2											
SP-2 (M/c-1)	Sintering Machine	100	6	ESP	06 Jan, 10:30-11:10 (40 Minute)	2078	251360	45.03	66.90	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	05 Jan, 11:30-12:15 (45 Minute)	8473	477748	40.88	90.05	-	-

BHILAI STEEL PLANT
October 2022 to March 2023

SP-3 (M/c-2)	Sintering Machine	120	7	ESP	23 Jan, 11:10-12:00 (50 Minute)	8961	493141	46.21	70.60	-	-
RMP-2											
LK-1	Vertical Kiln	53.2	1.2	Wet Scrubber	25 Jan, 11:00-11:40 (40 Minute)	157	53565	45.81	71.43	-	-
LK-2	Vertical Kiln	53.2	1.2	Wet Scrubber	25 Jan, 12:00-12:40 (40 Minute)	194	53684	47.69	69.70	-	-
RK	Rotary Kiln	60	2	Wet Scrubber	10 Jan, 11:45-12:30 (45 Minute)	144	63117	47.27	58.14	-	-
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	13 Jan, 11:30-12:15 (45 Minute)	2191	119142	39.32	138.40	158.30	-
Boiler 2	Boiler	80	4.3	ESP	13 Jan, 12:30-01:15 (45 Minute)	2338	118474	37.30	86.40	91.35	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	04 Jan, 11:15-12:00 (45 Minute)	2063	85148	39.28	90.08	78.45	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	14 Jan, 10:00-11:00 (60 Minute)	2293	85652	41.19	73.50	83.10	-
Boiler 5	Boiler	80	4.3	ESP	18 Jan, 10:30-11:10 (40 Minute)	2430	118693	40.84	85.90	96.30	-
Boiler 6	Boiler	80	4.3	ESP	18 Jan, 11:30-12:05 (35 Minute)	1865	330478	38.07	105.20	125.60	-
Mills											
WRM	RHF	-	-	-	31 Jan.,12:30-01:30 (60 Minute)	-	-	19.51	-	-	-
Rail Mill	RHF	-	-	-	31 Jan., 09:30-10:30 (60 Minute)	-	-	18.39	-	-	-
Plate Mill	RHF	-	-	-	26 Jan., 09:50-10:50 (60 Minute)	-	-	23.69	-	-	-
BRM	RHF	-	-	-	19 Jan., 11:30-12:30 (60 Minute)	-	-	25.14	-	-	-

Month-February'23

Coke Oven

BHILAI STEEL PLANT
October 2022 to March 2023

Battery No. 1	Battery	100	3.5	Nil	13 Feb, 10:30-11:30 (60 Minute)	849	131848	45.16	480.00	368.00	2.48Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	13 Feb, 11:40-12:40 (60 Minute)	849	122998	48.54	290.00	287.00	2.50Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	08 Feb, 10:30-11:30 (60 Minute)	927	125310	42.19	224.85	218.22	2.59Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	17 Feb, 11:05-12:05 (60 Minute)	849	126408	42.15	386.44	284.00	2.53Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	17 Feb, 12:15-01:15 (60 Minute)	849	131728	40.85	503.90	315.84	2.62Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	10 Feb, 10:30-11:30 (60 Minute)	1488	233873	37.22	474.22	201.16	2.64Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	10 Feb, 11:40-12:40 (60 Minute)	1548	207263	42.36	433.60	246.30	2.61Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	02 Feb, 11:15-12:15 (60 Minute)	1809	186673	40.50	160.25	151.00	2.68Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorption Tower	28 Feb, 11:20-12:00 (40 Minute)	90	10098	-	2.0106 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)	Diame ter 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 (Norm: 600mg/ Nm3)	NO _x (Norm: 600mg/N m3)	CO
SP-2											
SP-2 (M/c-2)	Sintering Machine	100	6	ESP	27 Feb, 12:10-12:50 (40 Minute)	1802	258758	48.29	78.50	-	-
SP-2 (M/c-3)	Sintering Machine	100	6	ESP	28 Feb, 01:00-01:40 (40 Minute)	1785	221459	46.80	83.84	-	-
SP-2 (M/c-4)	Sintering Machine	100	6	ESP	28 Feb, 12:10-12:50 (40 Minute)	1785	224706	44.37	0.00	-	-

BHILAI STEEL PLANT
October 2022 to March 2023

SP-3											
SP-3, M/c-1(Space dedusting)				ESP	15 Feb, 11:15-12:00 (45 Minute)	-	-	48.30	-	-	-
SP-3, M/c-2 (Space de-dusting)				ESP	23 Feb, 10:50-11:30 (40 Minute)	-	-	47.90	-	-	-
RMP-2											
LK-1	Vertical Kiln	53.2	1.2	Wet Scrubber	23 Feb, 12:00-12:40 (40 Minute)	194	36261	46.75	67.80	-	-
RK	Rotary Kiln	60	2	Wet Scrubber	07 Feb, 11:30-12:15 (45 Minute)	436	60324	46.75	61.25	-	-
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	06 Feb, 11:05-11:45 (40 Minute)	2115	118505	41.64	66.75	50.45	-
Boiler 2	Boiler	80	4.3	ESP	06 Feb, 11:55-12:40 (45 Minute)	2100	116201	39.83	90.40	62.80	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	04 Feb, 10:00-10:45 (45 Minute)	764	83348	38.80	87.56	71.18	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	11 Feb, 10:25-11:20 (55 Minute)	2250	84790	40.88	78.23	85.51	-
Boiler 5	Boiler	80	4.3	ESP	16 Feb, 10:40-11:20 (40 Minute)	2380	118098	38.71	86.80	94.52	-
Mills											
WRM	RHF	-	-	-	15 Feb.,11:30-12:30 (60 Minute)	-	-	18.02	-	-	-
Rail Mill	RHF	-	-	-	16 Feb., 09:50-10:50 (60 Minute)	-	-	17.82	-	-	-
Merchant Mill	RHF	-	-	-	25 Feb., 11:55-12:55 (60 Minute)	-	-	23.83	-	-	-
BRM	RHF	-	-	-	20 Feb., 10:30-11:30 (60 Minute)	-	-	26.47	-	-	-

BHILAI STEEL PLANT
October 2022 to March 2023

Month-March'23

Stack emission											
Name of the Plant (1)	Stack connecte d 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/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
Blast Furnace											
BF-4 (Process)	Stoves	60	2.5	--do--	28 Mar, 11:25-12:25 (60 Minute)	2149	122135	26.64	151.00	60.20	0.60% V/V
BF-5 (Process)	Stoves	60	3.5	--do--	28 Mar, 12:35-01:35 (60 Minute)	2379	126008	22.29	184.00	52.60	0.54% V/V
BF-5 (Space dedusting)	-	-	-	Bag filter	22 Mar, 12:20-01:05 (45 Minute)	-	-	37.52	-	-	
BF-6 (Space dedusting)	-	-	-	Bag filter	22 Mar, 11:10-12:10 (60 Minute)	-	-	35.24	-	-	
SMS-2											
LF-1	Ladle Furnace	60	1.65	Bag Filter	02 Mar, 11:00-11:40 (40 Minute)	2520	122875	48.08	72.20	-	-
LF-2	Ladle Furnace	50	1.50	Bag Filter	08 Mar, 08:45-09:30 (45 Minute)	1080	122878	25.13	68.40	-	-
SMS-3											
SMS –3 (DDSY (Secondary))	Liquid Steel	-	-	ESP	25 Mar, 10:20-10:55 (35 Minute)	-	-	48.84	-	-	-
Stack emission											
Name of the Plant	Stack connected	Height of the	Diameter of the stack	Pollution Control unit	Date & Time of the monitoring	Production fig. of the unit,	Flow rate of the flue	Parameters (whichever are applicable)			

BHILAI STEEL PLANT
October 2022 to March 2023

(1)	to (Name of the unit) (2)	stack (m) (3)	(m) (4)	provided (Name) (5)	(duration) (6)	during the period of monitoring (7)	gas (8)	(9)			
								Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (Norm: 800mg/ Nm3,	NO _x (Norm:5 00mg/N m3)	CO (Norm: 3 kg/T of Coke
Coke Oven											
Battery No. 1	Battery	100	3.5	Nil	07 Mar, 08:30-09:30 (60 Minute)	849	122931	43.93	535.35	308.32	2.53Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	07 Mar, 09:40-10:40 (60 Minute)	849	122065	45.39	324.90	154.16	2.51Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	17 Mar, 12:15-01:15 (60 Minute)	938	126821	44.53	219.58	203.82	2.62Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	23 Mar, 09:20-10:20 (60 Minute)	815	133784	45.57	569.90	295.00	2.55Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	23 Mar, 10:30-11:30 (60 Minute)	815	131672	42.29	575.00	318.41	2.66Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	16 Mar, 11:10-12:10 (60 Minute)	1427	246963	39.70	455.20	195.54	2.63Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	16 Mar, 12:20-01:20 (60 Minute)	1568	222829	43.44	482.00	250.58	2.57Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	06 Mar, 10:50-11:50 (60 Minute)	1809	186513	47.35	243.00	236.00	2.60Kg/T coke
A.											
Stack emission											
(1)	Stack connected to (Name of the unit) (2)	Height of the stack (m) (3)	Diame ter 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 (Norm: 600mg/ Nm3)	NO _x (Norm: 600mg/N m3)	CO
SP-2											
SP-2(M/c-1)	Sintering Machine	100	6	ESP	13 Mar, 10:30-11:05 (35 Minute)	1763	248551	46.40	83.40	-	-
SP-2 (M/c-2)	Sintering	100	6	ESP	13 Mar, 11:15-11:50 (35 Minute)	1763	254797	47.71	69.84	-	-

BHILAI STEEL PLANT
October 2022 to March 2023

	Machine										
SP-2 (M/c-3)	Sintering Machine	100	6	ESP	20 Mar, 10:35-11:15 (40 Minute)	1828	228866	45.33	86.52	-	-
SP-2 (M/c-4)	Sintering Machine	100	6	ESP	20 Mar, 11:30-12:10 (40 Minute)	1828	223491	46.07	63.80	-	-
SP-3											
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	01 Mar, 10:45-11:30 (45 Minute)	8776	473782	49.34	-	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	21 Mar, 11:30-12:15 (45 Minute)	8335	493401	48.71	-	-	-
RMP-2											
LK-1	Vertical Kiln	53.2	1.2	Wet Scrubber	24 Mar, 09:10-09:50 (40 Minute)	163	51862	44.65	73.50	-	-
LK-2	Vertical Kiln	53.2	1.2	Wet Scrubber	24 Mar, 10:00-10:40 (40 Minute)	118	54102	46.54	66.82	-	-
RK	Rotary Kiln	60	2	Wet Scrubber	27 Mar, 10:00-10:45 (45 Minute)	144	59239	47.18	68.25	-	-
TPP/CPP											
Boiler 1	Boiler	80	4.3	ESP	03 Mar, 10:30-11:15 (45 Minute)	2433	119323	46.93	72.80	68.60	-
Boiler 2	Boiler	80	4.3	ESP	03 Mar, 11:30-12:15 (45 Minute)	2628	118310	49.24	64.50	86.90	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	04 Mar, 10:15-11:00 (45 Minute)	1997	83828	35.79	76.00	82.15	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	15 Mar, 12:00-12:45 (45 Minute)	1899	83981	41.34	81.00	88.50	-
Boiler 5	Boiler	80	4.3	ESP	18 Mar, 11:20-12:00 (40 Minute)	2360	118830	45.81	94.40	98.25	-
Mills											
Plate Mill	RHF	-	-	-	09 Mar., 10:30-11:30 (60 Minute)			19.66			
Rail Mill	RHF	-	-	-	28 Mar., 10:00-11:00 (60 Minute)	-	-	25.36	-	-	-
BRM	RHF	-	-	-	29 Mar, 10:10-11:10 (60 Minute)	-	-	30.09	-	-	-

BHILAI STEEL PLANT
FUGITIVE EMISSION STATUS October 2022 to March 2023

FLAG E

E-2

Fugitive Emission

FUGITIVE EMISSION STATUS October 2022 to March 2023

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.-5		14 Oct -11:00	1640	-	-	-	-	1267*	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-1)		19 Oct -10:50	1890	-	-	-	-	-	-
3	Blast Furnace	BF-4 #, Near Furnace		26 Oct - 10:00-02:00	802	59.20	69.60	NT*	836	-	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Near Chimney		28 Oct - 11:30-03:30	526	48.50	60.30	NT*	1074	-	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-4		05 Oct -10:00	945	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		05 Oct -10:25	1060	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		26 Oct -11:25	1680	-	-	-	-	-	-

FUGITIVE EMISSION STATUS October 2022 to March 2023

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.-11		05 Nov -11:30	1650	-	-	-	-	990*	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-1 & 2)		08 Nov -11:55	1730	-	-	-	-	-	-
3	Blast Furnace	BF # 5, Near Furnace		03 Nov -10:20-02:00	870.91	59.30	62.00	0.192*	920*	271*	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Beside of RH Degassar (Ground level)		02 Nov -10:00-02:00	971.78	51.90	56.30	0.536*	1204*	162*	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-1		10 Nov -10:50	1690	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		22 Nov -11:40	1480	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		22 Nov -10:30	1680	-	-	-	-	-	-

FUGITIVE EMISSION STATUS October 2022 to March 2023

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.-3		01 Dec -10:00	1670	-	-	-	-	990*	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-1)		20 Dec -11:15	1820	-	-	-	-	-	-
3	Blast Furnace	BF # 6, Near Furnace		29 Dec -10:00-02:00	840.21	61.20	49.50	0.062*	985	271*	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Near LF-1 Chimney		06 Dec -11:00-02:30	908.55	48.50	56.10	0.014*	1367	162*	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-4		02 Dec -11:00	1790	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		15 Dec -11:40	1600	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		15 Dec -10:45	1800	-	-	-	-	-	-

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Fugitive Emissions Status Month-January'23

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.-2		09 Jan -11:50	1730	-	-	-	-	990*	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-1)		06 Jan -10:50	1840	-	-	-	-	-	-
3	Blast Furnace	BF # 6, Near Cast House		14 Jan -10:30-02:30	805.00	59.60	48.30	0.062*	1125	271*	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Near LD Convertor		24 Jan -10:00-01:00	1284.5	50.60	46.70	0.014*	1472	162*	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-3		04 Jan -11:30	1810	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		10 Jan -12:00	1630	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		10 Jan -10:35	1860	-	-	-	-	-	-

FUGITIVE EMISSION STATUS October 2022 to March 2023

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.-3		08 Feb -10:45	1700	-	-	-	-	990*	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-1)		27 Feb -10:45	1880	-	-	-	-	-	-
3	Blast Furnace	BF # 7, Near Furnace		23 Feb -10:30-02:15	1217.92	58.60	46.90	0.062*	943	271*	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Near LF-1		23 Feb -10:00-02:00	1163.00	48.30	39.30	0.014*	1247	162*	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-3		04 Feb -10:45	1840	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		07 Feb -11:10	1880	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		07 Feb -11:45	1900	-	-	-	-	-	-

FUGITIVE EMISSION STATUS October 2022 to March 2023

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		06 Mar -10:35	1710	-	-	-	-	1267* (Batt.1)	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-1)		13 Mar -10:45	1890	-	-	-	-	-	-
3	Blast Furnace	BFs-6 Near Furnace		31 Mar -10:40-02:30	1034.04	55.80	48.3 0	0.062*	910	271*	Norms as per GSR 277 (E) dtd 30/03/2012
4	Steel Melting Shop-2	Near LD Convertor		31 Mar -10:00-02:00	964.57	49.30	40.6 0	0.014*	1147	162*	Norms as per GSR 277 (E) dtd 30/03/2012
5	Thermal Power Plant-1	Near Boiler-1 & 2		03 Mar -10:50	1790	-	-	-	-	-	
6	Lime dolomite plant- 1	RMP-1 (Entrance)		27 Mar -11:10	1700	-	-	-	-	-	-
7	Lime dolomite plant-2	RMP-2 (Near welfare building)		27 Mar -10:30	1890	-	-	-	-	-	-

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

FLAG E

E-3

AMBIENT AIR QUALITY

AMBIENT AIR QUALITY**Month-October'22**

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			21.89	51.57	11.98	12.71	1.49	227	NT	44.97	NT	NT	5.200	1.43
2	OP-2			20.18	42.21	12.98	14.50	1.54	256	NT	55.68	NT	NT	12.00	1.03
3	Rail Mill			26.44	54.92	13.27	15.83	2.41	520	NT	56.82	NT	NT	11.00	1.29
4	Ispat Bhavan			22.13	51.46	14.65	13.86	1.95	294	1.00	NA**	NT	NT	4.900	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.

** 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.

AMBIENT AIR QUALITY**Month-November'22**

S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring	Parameters (as applicable)											
				5											
1	2	3	4	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			26.72	56.87	16.07	17.23	1.37	238	NT	43.21	NT	NT	5.200	1.58
2	OP-2			22.06	45.21	18.80	19.34	1.43	249	NT	54.19	NT	NT	12.00	1.12
3	Rail Mill			27.88	56.47	19.22	20.12	2.33	515	NT	55.37	NT	NT	11.00	1.18
4	Ispat Bhavan			24.31	53.29	16.48	18.73	1.87	283	1.00	NA**	NT	NT	4.900	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.

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

AMBIENT AIR QUALITY

Month-December'22

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			29.99	59.70	19.43	21.08	1.43	259	NT	49.21	0.025	NT	2.000	1.52
2	OP-2			25.39	48.55	21.84	22.08	1.40	286	NT	52.14	0.034	NT	2.000	1.20
3	Rail Mill			29.98	59.24	23.59	24.70	2.38	507	NT	54.18	0.040	NT	4.000	1.19
4	Ispat Bhavan			27.03	55.72	19.87	21.22	1.88	278	1.00	NA**	0.056	NT	3.000	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.

** 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.

AMBIENT AIR QUALITY

Month- January'23

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			27.80	60.71	15.99	16.67	1.88	295	NT	46.92	NT	NT	5.200	2.06
2	OP-2			25.79	47.12	16.81	18.15	2.24	403	NT	68.43	NT	NT	12.00	1.02
3	Rail Mill			30.64	59.83	18.44	20.21	3.36	587	NT	69.91	NT	NT	11.00	1.56
4	Ispat Bhavan			27.31	56.46	16.70	17.52	3.02	398	1.00	NA**	NT	NT	4.900	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.

** 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.

AMBIENT AIR QUALITY

Month- February'23

S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring	Parameters (as applicable)											
				5											
1	2	3	4	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			28.35	59.84	16.77	18.82	1.38	240	NT	48.11	0.025	NT	2.000	1.48
2	OP-2			24.51	47.34	19.28	19.77	1.41	269	NT	51.78	0.034	NT	2.000	1.21
3	Rail Mill			27.83	58.70	21.66	22.98	2.24	485	NT	53.33	0.040	NT	4.000	1.14
4	Ispat Bhavan			26.69	54.28	17.80	19.42	1.65	266	1.00	NA**	0.056	NT	3.000	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.

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

B. AMBIENT AIR QUALITY AND FUGITIVE EMISSION															
Month- March'23															
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			26.65	59.05	15.93	18.34	1.40	235	NT	47.89	0.025	NT	2.000	1.45
2	OP-2			23.14	46.01	18.11	19.12	1.43	258	NT	50.52	0.034	NT	2.000	1.19
3	Rail Mill			25.66	56.82	20.58	21.50	2.19	422	NT	51.06	0.040	NT	4.000	1.16
4	Ispat Bhavan			25.38	52.88	16.35	18.67	1.62	247	NT	NA**	0.056	NT	3.000	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.

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

FLAG - F

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

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Month- October 2022

[illegible]

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Quality of various effluent streams at the Boundary line of the plant

Date & time of the Monitoring	Name of the stream	Name of the production units contributing to the stream	Parameters (mg/l, except pH and temp.)									Remarks
			Temp.	pH	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
04, 11, 18, 25, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	28.93	7.89	33	<i>BDL</i>	<i>BDL</i>	14	43	3.58	2.04	
04, 11, 18, 25, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	29.58	7.72	40	<i>BDL</i>	<i>BDL</i>	22	56	5.61	2.73	
03, 10, 17, 24, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	28.78	7.96	26	0.12	0.05	21	54	3.64	1.29	

Status of Sewage Treatment Plant (STP)

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m ³ /hr	Parameters (mg/l, except pH and temp.)					
			Temp.	pH	SS	BOD	COD	
	Norms			6.5 -8.5	100	30	250	
25 Oct, 10:40 AM	30 MLD	1150	29	7.29	15	9	15	
31 Oct, 07:40 AM	Bhilai House (Oxi. Pond)	475	27	7.88	59	22	61	
31 Oct, 08:30 AM	Risali (Oxi. Pond)	700	27	8.05	51	19	56	
22 Oct, 10:45 AM	Works area	390	28	7.20	38	19	42	

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Month- November 2022

[illegible]

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Quality of various effluent streams at the Boundary line of the plant

Date & time of the Monitoring	Name of the stream	Name of the production units contributing to the stream	Parameters (mg/l, except pH and temp.)									
			Temp.	pH	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
01, 08, 15, 22, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	28.35	7.93	37	<i>BDL</i>	<i>BDL</i>	14	44	4.44	1.81	
01, 08, 15, 22, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	26.60	7.63	52	<i>BDL</i>	<i>BDL</i>	18	52	8.03	2.66	
03, 07, 14, 21, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	25.15	8.00	27	0.11	0.06	18	49	4.29	1.52	

Status of Sewage Treatment Plant (STP)

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	Parameters (mg/l, except pH and temp.)					
			Temp.	pH	SS	BOD	COD	
	Norms			6.5 -8.5	100	30	250	
15 Nov, 11:02 AM	30 MLD	1150	26	7.30	19	8	13	
24 Nov, 03:10 PM	Bhilai House (Oxi. Pond)	475	26	8.47	68	25	66	
15 Nov, 11:15 AM	Risali (Oxi. Pond)	700	26	8.32	50	26	71	
10 Nov, 10:48 AM	Works area	390	27	7.63	32	17	47	

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Month- December 2022

[illegible]

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Quality of various effluent streams at the Boundary line of the plant

Date & time of the Monitoring	Name of the stream	Name of the production units contributing to the stream	Parameters (mg/l, except pH and temp.)									
			Temp.	pH	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
06, 13, 20, 27, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	26.30	7.79	48	BDL	BDL	13	42	5.71	1.53	
06, 13, 20, 27, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	25.98	7.37	57	BDL	BDL	17	51	5.07	2.96	
05, 12, 19, 26, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	25.23	7.98	30	0.09	0.08	17	49	4.64	1.48	

Status of Sewage Treatment Plant (STP)

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	Parameters (mg/l, except pH and temp.)					
			Temp.	pH	SS	BOD	COD	
	Norms			6.5 -8.5	100	30	250	
22 Dec, 11:40 AM	30 MLD	1150	25	7.41	45	8	12	
21 Dec, 09:30 AM	Bhilai House (Oxi. Pond)	475	26	8.35	71	25	57	
30 Dec, 01:00 PM	Risali (Oxi. Pond)	700	27	8.44	69	25	60	
22 Dec, 11:50 AM	Works area	390	26	7.47	35	15	42	

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Month- January 2023

[illegible]

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Quality of various effluent streams at the Boundary line of the plant

Date & time of the Monitoring	Name of the stream	Name of the production units contributing to the stream	Parameters (mg/l, except pH and temp.)									
			Temp.	pH	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
03, 10, 17, 24, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	24.38	7.72	49	BDL	BDL	14	44	2.74	1.39	
03, 10, 17, 24, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	24.28	7.54	53	BDL	BDL	20	54	4.86	2.10	
02, 09, 16, 23, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	23.04	8.36	27	0.14	0.06	19	54	4.04	1.64	

Status of Sewage Treatment Plant (STP)

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	Parameters (mg/l, except pH and temp.)					
			Temp.	pH	SS	BOD	COD	
	Norms			6.5 -8.5	100	30	250	
03 Jan, 11:10 AM	30 MLD	1150	25	7.71	32	8	13	
21 Jan, 12:40 PM	Bhilai House (Oxi. Pond)	475	26	8.09	77	22	86	
21 Jan, 12:00 PM	Risali (Oxi. Pond)	700	25	7.96	71	19	77	
27 Jan, 10:20 AM	Works area	390	26	7.46	38	17	46	

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Month- February 2023

[illegible]

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Quality of various effluent streams at the Boundary line of the plant

Date & time of the Monitoring	Name of the stream	Name of the production units contributing to the stream	Parameters (mg/l, except pH and temp.)									
			Temp.	pH	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
09, 14, 21, 28, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	29.95	7.77	33	<i>BDL</i>	<i>BDL</i>	16	46	7.00	1.31	
09, 14, 21, 28, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	28.53	8.42	54	<i>BDL</i>	<i>BDL</i>	19	56	33.20	2.15	
06, 13, 20, 27, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	28.48	8.07	28	0.12	0.08	18	50	6.67	1.70	

Status of Sewage Treatment Plant (STP)

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	Parameters (mg/l, except pH and temp.)					
			Temp.	pH	SS	BOD	COD	
	Norms			6.5 -8.5	100	30	250	
09 Feb, 12:00 PM	30 MLD	1150	27	7.17	33	9	14	
09 Feb, 11:00 AM	Bhilai House (Oxi. Pond)	475	28	8.48	59	24	77	
09 Feb, 11:30 AM	Risali (Oxi. Pond)	700	27	8.21	62	25	81	
17 Feb, 11:00 AM	Works area	390	26	7.11	40	17	44	

Month- March 2023

[illegible]

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

Quality of various effluent streams at the Boundary line of the plant

Date & time of the Monitoring	Name of the stream	Name of the production units contributing to the stream	Parameters (mg/l, except pH and temp.)									
			Temp.	pH	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
07, 14, 21, 27, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	29.75	7.96	45	<i>BDL</i>	<i>BDL</i>	15	43	6.55	1.37	
07, 14, 21, 27, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	29.23	7.21	56	<i>BDL</i>	<i>BDL</i>	19	53	19.43	2.17	
06, 13, 18, 25, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	28.38	7.92	31	0.07	0.06	20	53	5.93	1.74	

Status of Sewage Treatment Plant (STP)

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	Parameters (mg/l, except pH and temp.)					
			Temp.	pH	SS	BOD	COD	
	Norms			6.5 -8.5	100	30	250	
14 Mar, 11:25 AM	30 MLD	1150	30	7.26	31	11	15	
21 Mar, 12:22 PM	Bhilai House (Oxi. Pond)	475	28	8.41	70	25	70	
21 Mar, 12:48 PM	Risali (Oxi. Pond)	700	27	8.46	78	28	76	
17 Mar, 10:30 AM	Works area (Oxi. Pond)	390	27	7.32	42	16	45	

BHILAI STEEL PLANT

FUGITIVE EMISSION STATUS October 2022 to March 2023

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Noise Pollution Control Status

Noise Pollution Control Status

Month-October 2022

1. Noise Monitoring in Work Zone

Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A)	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	31-Oct	5 m	Air tight control Room	65.5	2 Minute	
Blast Furnace-4(Control Room)	15-Oct	5 m	Acoustic Room	68.9	2 Minute	
Mills (Rolling / forgoing) Rail Mill	31-Oct	5 m	Acoustic pulpit	86.4	2 Minute	
TPP/CPP (Turbines-3) (Control Room)	05-Oct	5 m	Acoustic cabins	65.3	2 Minute	
SP-2, (M/c-1) Operator's room	19-Oct	5 m	Acoustic Room	68.1	2 Minute	
Coke-oven area (Batt.-10) (Control Room)	01-Oct	5 m	Air Tight control Room	68.4	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

2. Ambient Noise Monitoring

Noise Zone	Noise Level			Unit: dB (A)
	Standard	Day Time	Night time	
Industrial Area (at boundary of plant)				
Industrial Area (at boundary of plant)				
Near OP-2	75	52.8	48.5	
Near Joratarai Gate	75	54.3	51.6	
Near Main Gate	75	53.9	51.5	
Near Khursipar Gate	75	68.9	65.8	
Commercial Area				
Sector-05 (Market area)	65 Day & 55 Night	54.7	43.0	
Sector-06 (Near 'B' Market)	65 Day & 55 Night	54.2	49.0	
Sector-09 (Goal Market)	65 Day & 55 Night	53.1	48.6	
Maroda Sector (BSP Market)	65 Day & 55 Night	43.5	53.2	
Risali Sector (BSP Market)	65 Day & 55 Night	50.3	54.1	
Residential Area				
Sector-01 (Street No. - 23)	55 Day & 45 Night	42.0	42.3	
Sector-05 (Street No. - 32)	55 Day & 45 Night	40.2	40.3	
Sector-07 (Street No. - 17)	55 Day & 45 Night	39.8	43.9	
Sector-08 (Street No. - 05)	55 Day & 45 Night	40.9	43.1	
Sector-10 (Street No. - 25)	55 Day & 45 Night	42.8	41.9	
Silence Area				
Sector-02 (English Medium Middle School)	50 Day & 40 Night	40.8	39.4	
Sector-05 (Girls Higher Secondry School)	50 Day & 40 Night	43.9	38.1	
Sector-07 (English Medium Middle School)	50 Day & 40 Night	46.4	38.5	
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	39.4	36.3	
Maroda Sector (Estate Court)	50 Day & 40 Night	41.7	37.4	

Noise Monitoring in township area done (Quarterly) in the month of September-22

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

Month- November 2022

1. Noise Monitoring in Work Zone

Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A)	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	24-Nov	5 m	Air tight control Room	61.5	2 Minute	
Blast Furnace-5(Control Room)	03-Nov	5 m	Acoustic Room	67.3	2 Minute	
Mills (Rolling / forgoing) Rail Mill	24-Nov	5 m	Acoustic pulpit	88.3	2 Minute	
TPP/CPP (Turbines-3) (Control Room)	10-Nov	5 m	Acoustic cabins	67.9	2 Minute	
SP-2, (M/c-1 & 2) Operator's room	08-Nov	5 m	Acoustic Room	64.3	2 Minute	
Coke-oven area (Batt.-9) (Control Room)	04-Nov	5 m	Air Tight control Room	68.4	2 Minute	
Others						

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

2. Ambient Noise Monitoring

Noise Zone	Noise Level			Unit: dB (A)	
	Standard	Day Time	Night time		
Industrial Area (at boundary of plant)					
Industrial Area (at boundary of plant)					
Near OP-2	75	56.3	51.4		
Near Joratarai Gate	75	57.8	52.5		
Near Main Gate	75	55.2	51.7		
Near Khursipar Gate	75	65.9	62.1		
Commercial Area					
Sector-05 (Market area)	65 Day & 55 Night	54.7	43.0		
Sector-06 (Near 'B' Market)	65 Day & 55 Night	64.2	49.0		
Sector-09 (Goal Market)	65 Day & 55 Night	53.1	48.6		
Maroda Sector (BSP Market)	65 Day & 55 Night	43.5	53.2		
Risali Sector (BSP Market)	65 Day & 55 Night	50.3	54.1		
Residential Area					
Sector-01 (Street No. - 23)	55 Day & 45 Night	42.0	42.3		
Sector-05 (Street No. - 32)	55 Day & 45 Night	40.2	40.3		
Sector-07 (Street No. - 17)	55 Day & 45 Night	39.8	43.9		
Sector-08 (Street No. - 05)	55 Day & 45 Night	40.9	43.1		
Sector-10 (Street No. - 25)	55 Day & 45 Night	42.8	41.9		
Silence Area					
Sector-02 (English Medium Middle School)	50 Day & 40 Night	40.8	39.4		
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	43.9	38.1		
Sector-07 (English Medium Middle School)	50 Day & 40 Night	46.4	38.5		
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	39.4	36.3		
Maroda Sector (Estate Court)	50 Day & 40 Night	41.7	37.4		

Noise Monitoring in township area done (Quarterly) in the month of September-22

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

Month- December 2022

1. Noise Monitoring in Work Zone

Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A)	Duration of the monitoring (time)	Remarks
Oxygen plant-2 (Control Room)	31-Dec	5 m	Air tight control Room	68.9	2 Minute	
Blast Furnace-6(Control Room)	08-Dec	5 m	Acoustic Room	68.4	2 Minute	
Mills (Rolling / forgoing) Rail Mill	22-Dec	5 m	Acoustic pulpit	87.4	2 Minute	
TPP/CPP (Turbines-3) (Control Room)	19-Dec	5 m	Acoustic cabins	69.4	2 Minute	
SP-2, (M/c-1) Operator's room	20-Dec	5 m	Acoustic Room	67.4	2 Minute	
Coke-oven area (Batt.-11) (Control Room)	07-Dec	5 m	Air Tight control Room	68.4	2 Minute	
Oxygen plant-2 (Control Room)	31-Dec	5 m	Air tight control Room	68.9	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

2. Ambient Noise Monitoring

Noise Zone	Noise Level		
	Standard	Day Time	Night time
Unit: dB (A)			
Industrial Area (at boundary of plant)			
Near OP-2	75	58.9	53.8
Near Joratarai Gate	75	59.4	57.4
Near Main Gate	75	57.9	53.3
Near Khursipar Gate	75	68.6	66.7
Commercial Area			
Sector-05 (Market area)	65 Day & 55 Night	56.3	53.4
Sector-06 (Near 'B' Market)	65 Day & 55 Night	50.9	48.6
Sector-09 (Goal Market)	65 Day & 55 Night	56.5	52.0
Maroda Sector (BSP Market)	65 Day & 55 Night	46.9	45.9
Risali Sector (BSP Market)	65 Day & 55 Night	60.1	49.5
Residential Area			
Sector-01 (Street No. - 23)	55 Day & 45 Night	49.1	44.7
Sector-05 (Street No. - 32)	55 Day & 45 Night	46.6	43.7
Sector-07 (Street No. - 17)	55 Day & 45 Night	41.6	40.2
Sector-08 (Street No. - 05)	55 Day & 45 Night	50.5	42.6
Sector-10 (Street No. - 25)	55 Day & 45 Night	42.8	41.6
Silence Area			
Sector-02 (English Medium Middle School)	50 Day & 40 Night	46.0	39.1
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	41.0	37.8
Sector-07 (English Medium Middle School)	50 Day & 40 Night	48.3	38.5
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	43.9	39.2
Maroda Sector (Estate Court)	50 Day & 40 Night	44.9	37.9

Noise Monitoring in township area done (Quarterly) in the month of December-22

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

Month - January 2023

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-Jan	5 m	Air tight control Room	68.1	2 Minute	
Blast Furnace-6(Control Room)	07-Jan	5 m	Acoustic Room	66.3	2 Minute	
Mills (Rolling / forgoing) Rail Mill	26-Jan	5 m	Acoustic pulpit	85.2	2 Minute	
TPP/CPP (Turbines-3) (Control Room)	04-Jan	5 m	Acoustic cabins	68.3	2 Minute	
SP-2, (M/c-1) Operator's room	06-Jan	5 m	Acoustic Room	65.3	2 Minute	
Coke-oven area (Batt.-3) (Control Room)	16-Jan	5 m	Air Tight control Room	65.8	2 Minute	
Oxygen plant-2 (Control Room)	27-Jan	5 m	Air tight control Room	68.1	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

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	58.9	53.8	
Near Joratarai Gate	75	59.4	57.4	
Near Main Gate	75	57.9	53.3	
Near Khursipar Gate	75	68.6	66.7	
Commercial Area				
Sector-05 (Market area)	65 Day & 55 Night	56.3	53.4	
Sector-06 (Near 'B' Market)	65 Day & 55 Night	50.9	48.6	
Sector-09 (Goal Market)	65 Day & 55 Night	56.5	52.0	
Maroda Sector (BSP Market)	65 Day & 55 Night	46.9	45.9	
Risali Sector (BSP Market)	65 Day & 55 Night	60.1	49.5	
Residential Area				
Sector-01 (Street No. - 23)	55 Day & 45 Night	49.1	44.7	
Sector-05 (Street No. - 32)	55 Day & 45 Night	46.6	43.7	
Sector-07 (Street No. - 17)	55 Day & 45 Night	41.6	40.2	
Sector-08 (Street No. - 05)	55 Day & 45 Night	50.5	42.6	
Sector-10 (Street No. - 25)	55 Day & 45 Night	42.8	41.6	
Silence Area				
Sector-02 (English Medium Middle School)	50 Day & 40 Night	46.0	39.1	
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	41.0	37.8	
Sector-07 (English Medium Middle School)	50 Day & 40 Night	48.3	38.5	
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	43.9	39.2	
Maroda Sector (Estate Court)	50 Day & 40 Night	44.9	37.9	

Noise Monitoring in township area done (Quarterly) in the month of December-22

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

Month - February 2023

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)	28-Feb	5 m	Air tight control Room	62.3	2 Minute	
Blast Furnace-6(Control Room)	04-Feb	5 m	Acoustic Room	69.4	2 Minute	
Mills (Rolling / forgoing) Rail Mill	28-Feb	5 m	Acoustic pulpit	89.3	2 Minute	
TPP/CPP (Turbines-3) (Control Room)	04-Feb	5 m	Acoustic cabins	64.6	2 Minute	
SP-2, (M/c-1 & 2) Operator's room	07-Feb	5 m	Acoustic Room	66.7	2 Minute	
Coke-oven area (Batt.-11) (Control Room)	02-Feb	5 m	Air Tight control Room	69.8	2 Minute	
Oxygen plant-2 (Control Room)	28-Feb	5 m	Air tight control Room	62.3	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

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	58.9	53.8
Near Joratarai Gate	75	59.4	57.4
Near Main Gate	75	57.9	53.3
Near Khursipar Gate	75	68.6	66.7
Commercial Area			
Sector-05 (Market area)	65 Day & 55 Night	56.3	53.4
Sector-06 (Near 'B' Market)	65 Day & 55 Night	50.9	48.6
Sector-09 (Goal Market)	65 Day & 55 Night	56.5	52.0
Maroda Sector (BSP Market)	65 Day & 55 Night	46.9	45.9
Risali Sector (BSP Market)	65 Day & 55 Night	60.1	49.5
Residential Area			
Sector-01 (Street No. - 23)	55 Day & 45 Night	49.1	44.7
Sector-05 (Street No. - 32)	55 Day & 45 Night	46.6	43.7
Sector-07 (Street No. - 17)	55 Day & 45 Night	41.6	40.2
Sector-08 (Street No. - 05)	55 Day & 45 Night	50.5	42.6
Sector-10 (Street No. - 25)	55 Day & 45 Night	42.8	41.6
Silence Area			
Sector-02 (English Medium Middle School)	50 Day & 40 Night	46.0	39.1
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	41.0	37.8
Sector-07 (English Medium Middle School)	50 Day & 40 Night	48.3	38.5
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	43.9	39.2
Maroda Sector (Estate Court)	50 Day & 40 Night	44.9	37.9

Noise Monitoring in township area done (Quarterly) in the month of December-22

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

Month - March 2023

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)	30-Mar	5 m	Air tight control Room	67.3	2 Minute	
Blast Furnace-7(Control Room)	04-Mar	5 m	Acoustic Room	69.4	2 Minute	
Mills (Rolling / forgoing) Rail Mill	30-Mar	5 m	Acoustic pulpit	83.6	2 Minute	
TPP/CPP (Turbines-4) (Control Room)	03-Mar	5 m	Acoustic cabins	68.4	2 Minute	
SP-2, (M/c-1 & 2) Operator's room	13-Mar	5 m	Acoustic Room	68.4	2 Minute	
Coke-oven area (Batt.-11) (Control Room)	07-Mar	5 m	Air Tight control Room	68.8	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2022 to March 2023

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	53.4	51.8
Near Joratarai Gate	75	54.6	52.3
Near Main Gate	75	56.3	52.9
Near Khursipar Gate	75	67.3	65.7
Commercial Area			
Sector-05 (Market area)	65 Day & 55 Night	60.6	53.2
Sector-06 (Near 'B' Market)	65 Day & 55 Night	53.6	52.0
Sector-09 (Goal Market)	65 Day & 55 Night	57.6	54.0
Maroda Sector (BSP Market)	65 Day & 55 Night	56.3	53.0
Risali Sector (BSP Market)	65 Day & 55 Night	63.9	54.9
Residential Area			
Sector-01 (Street No. - 23)	55 Day & 45 Night	42.5	44.3
Sector-05 (Street No. - 32)	55 Day & 45 Night	45.0	43.8
Sector-07 (Street No. - 17)	55 Day & 45 Night	49.6	44.0
Sector-08 (Street No. - 05)	55 Day & 45 Night	48.6	44.2
Sector-10 (Street No. - 25)	55 Day & 45 Night	47.8	44.8
Silence Area			
Sector-02 (English Medium Middle School)	50 Day & 40 Night	48.0	38.2
Sector-05 (Girls Higher Secondary School)	50 Day & 40 Night	46.2	37.5
Sector-07 (English Medium Middle School)	50 Day & 40 Night	47.9	38.0
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.8	39.2
Maroda Sector (Estate Court)	50 Day & 40 Night	45.9	38.9

Noise Monitoring in township area done (Quarterly) in the month of March-23