

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

CGM(EnMD)/B-8/2024/183

Date: 28/06/2024

To,

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

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 2023 to March -2024) 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,

(Dibyendu Lal Moitra)

CGM (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

भिलाई 490001, छत्तीसगढ़, फ़ैक्स 0788-2222010, वैबसाइट www.sail.co.in Bhilai 490 001, Chhattisgarh, Fax: 0788-2222010, Website www.sail.co.in



Half Yearly Compliance Report 2023 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.
Plot / Survey / Khasra No.	N/A
State	CHHATTISGARH
MoEF File No.	F. No. IA-J- 1101112812007-IA 11 (I)

Category	Industrial Projects - 1
Sub-District	N/A
Entity's PAN	*****7062F
Entity name as per PAN	STEEL AUTHORITY OF INDIA LTD

Compliance Reporting Details

Reporting Year 2023

Remarks (if any)

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
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Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	Safety mock drill for gas pipeline maintenance shall be conducted every six months and reported to the Regional Office of MoEF&CC. The project proponent shall arrange to provide training to employees on 'behavioral safety'.

PPs Submission: Complied

Safety mock drill for gas pipeline maintenance are being conducted every six months (Report enclosed at Flag-A) Training to employees on behavioral safety is being organized regularly (Report enclosed at Flag-B)

Date: 03/07/2024

2 Corporate Environmental Responsibility

All CER activities as committed in the reply to the ADS letter dared 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 (Ist 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 March-2024. A detailed status report on CER activities enclosed at Flag-C

Date: 09/07/2024

3 WASTE MANAGEMENT

100 % SMS -Slag utilization shall be ensured after conditioning /steam curing.

PPs Submission: Complied

About 55 Percentage 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 and 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 utilized 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: 03/07/2024

4

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 Oflice of the MoEF&CC.

PPs Submission: Complied

SMS-1 phased-out in March-2021 Decommissioning plan along with greenbelt development will be submitted to MoEFCC.

Date: 03/07/2024

5

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 4555680 Nos of trees in an area covering about 1892 hectares till March-2024. In the year 2023-24 BSP has been planted 40680 Trees. 40215 saplings planted at Township and its surrounding area of Bhilai. Work awarded to C.G. Van Vikas Nigam. In the year 2023-24(April-

Date: 03/07/2024

March), BSP has planted 40680 trees within the plant premises and township covering an area of about 20-25 hectares. Further Green belt required to be developed to meet the 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, BSP s green belt coverage comes to 36.34 Percentage.

6 AIR QUALITY 6 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: 03/07/2024

7 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 MoEF and CC-New Delhi.

Date: 03/07/2024

8 WASTE MANAGEMENT

Corporate Environmental

Responsibility

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: 03/07/2024

General Conditions

4

Sr.No.	Condition Type	Condition Details	
1	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 recoverage coke ovens	
	abmission: Complied allation of the system shall be expl	ored in future based on feasibility.	Date: 03/07/2024
2	AIR QUALITY MONITORING AND PRESERVATION	Secondary emission control system shall be provided Converters.	led at SMS
	abmission: Complied ry emission control system has bee	en provided for SMS-3 Converters.	Date: 03/07/2024
3	Corporate Environmental Responsibility	Self-environmental audit shall be conducted annua years third party environmental audit shall be carried	
	abmission: Complied mental Audits under EMS:ISO:140 . The Last Audi was carried-out by	001 are being carried-out every year through external	Date: 04/07/2024

All the recommendations made in the Charter on Corporate

Responsibility for Environment Protection (CREP) for the Iron and

PPs S	Submission: Complied ied		Date: 04/07/2024
5	MISCELLANEOUS	The project proponent shall make public the environ clearance granted for their project along with the environment of the conditions and safeguards at their cost by prominently at least in two local newspapers of the District or State shall be in the vernacular language within seven days this shall also be displayed in the project proponent's vernacular	ronmental advertising it e, of which one and in addition
	Submission: Complied ied. Environmental clearance gran	ted to BSP has been placed in the web portal of SAIL.	Date: 04/07/2024
6	MISCELLANEOUS	The copies of the environmental clearance shall be sproject proponents to the Heads of local bodies, Panch Municipal Bodies in addition to the relevant offices of Government who in turn has to display the same for 3 date of receipt	nayats and f the
PPs S	Submission: Complied ied.		Date: 04/07/2024
7	MISCELLANEOUS	The project proponent shall upload the status of comstipulated environment clearance conditions, including monitored data on their website and update the same obasis	g results of
PPs S	Submission: Complied ied.		Date: 04/07/2024
8	MISCELLANEOUS	The project proponent shall monitor the criteria poll namely; PM10, SO2, NOx (ambient levels as well as sor critical sectoral parameters, indicated for the project the same at a convenient location for disclosure to the on the website of the company	stack emission ts and display
Compl place/r		displayed at the Companys main gate and in a public rough large electronic Display Boards. The monitored data	Date: 04/07/2024
9	MISCELLANEOUS	The project proponent shall submit six-monthly repostatus of the compliance of the stipulated environment on the website of the ministry of Environment, Forest Change at environment clearance portal	tal conditions
			Date:
PPs S	Submission: Complied ied.		04/07/2024

PPs S Compli	ubmission: Complied ed.		Date: 04/07/2024
11	MISCELLANEOUS	The project proponent shall inform the Region the Ministry, the date of financial closure and fi project by the concerned authorities, commencial development work and start of production operations.	nal approval of the ng the land
PPs S Compli	ubmission: Complied ed.		Date: 04/07/2024
12	MISCELLANEOUS	The project authorities must strictly adhere to by the State Pollution Control Board and the Sta	
PPs S Compli	ubmission: Complied ed.		Date: 04/07/2024
13	MISCELLANEOUS	The project proponent shall abide by all the correcommendations made in the EIA/EMP report during Public Hearing and also that during their Expert Appraisal Committee	commitment made
PPs S Compli	ubmission: Complied ed.		Date: 04/07/2024
14	MISCELLANEOUS	No further expansion or modifications in the pout without prior approval of the Ministry of Enand climate Change (MoEF&CC)	
	ubmission: Complied Complied/agreed.		Date: 04/07/2024
15	MISCELLANEOUS	Concealing factual data or submission of false result in revocation of this environmental cleara under the provisions of Environment(Protection	nce and attract actio
PPs S Agreed	ubmission: Complied		Date: 04/07/2024
16	MISCELLANEOUS	The Ministry may revoke or suspend the clear implementation of any of the above conditions i	
PPs S	ubmission: Complied		Date: 04/07/2024
17	MISCELLANEOUS	The Ministry reserves the right to stipulate add found necessary. The Company in a time bound implement these conditions	
PPs S Agreed	ubmission: Complied		Date: 04/07/2024
18	MISCELLANEOUS	The Regional Office of this Ministry shall mother the stipulated conditions. The project authorities cooperation to the officer(s) of the Regional Officer(s)	s should extend full

			Date:
PPs S Agreed	Submission: Complied d.		04/07/2024
19	MISCELLANEOUS	The above conditions shall be enforced, inter-alia une provisions of the Water (Prevention & Control of Pollu 1974, the Air (Prevention & Control of Pollution) Act, Environment (Protection) Act, 1986, Hazardous and o (Management and Transboundary Movement) Rules, 2 Public Liability Insurance Act, 1991 along with their a and Rules and any other orders passed by the Hon'ble of India / High Counts and any other Court of Law relative to the subject matter	ution) Act, 1981, the other Wastes 2016 and the mendments Supreme Cou
PPs !	Submission: Complied d.		Date: 04/07/2024
20	MISCELLANEOUS	Any appeal against this EC shall lie with the Nationa Tribunal, if preferred within a period of 30 days as pre Sction16 of the National Green Tribunal Act,2010	
PPs S	Submission: Complied d.		Date: 04/07/2024
		Action plan for implementing EMP and environment along with responsibility matrix of the company shall be shall be duly approved by competent authority. The ye	be prepared a
21	Corporate Environmental Responsibility	earmarked for environmental protection measures shal separate account and not to be diverted for any other provided progress of implementation of, action plan shall be the Ministry/Regional Office along with the Six Mont Compliance Report.	l be kept in urpose. Year se reported to
Compl prepare	Responsibility Submission: Complied lied. A detailed action plan for implen	separate account and not to be diverted for any other provide wise progress of implementation of, action plan shall be the Ministry/Regional Office along with the Six Mont	I be kept in urpose. Year be reported to hly Date:
PPs S	Responsibility Submission: Complied lied. A detailed action plan for implemed and progress is being monitored or	separate account and not to be diverted for any other progress of implementation of, action plan shall be the Ministry/Regional Office along with the Six Mont Compliance Report. mentation of EMPs along allocation of funds has been	l be kept in urpose. Year pe reported to hly Date: 04/07/2024
PPs S	Responsibility Submission: Complied lied. A detailed action plan for implemed and progress is being monitored or on plan is enclosed (Flag-H) AIR QUALITY MONITORING AND PRESERVATION Submission: Complied	separate account and not to be diverted for any other provide progress of implementation of, action plan shall be the Ministry/ Regional Office along with the Six Mont Compliance Report. mentation of EMPs along allocation of funds has been a regular basis. Copy of the progress of implementation The project proponent shall provide leakage detection	l be kept in urpose. Year pe reported to hly Date: 04/07/2024
PPs S Complete Comple	Responsibility Submission: Complied lied. A detailed action plan for implemed and progress is being monitored or on plan is enclosed (Flag-H) AIR QUALITY MONITORING AND PRESERVATION Submission: Complied	separate account and not to be diverted for any other provide progress of implementation of, action plan shall be the Ministry/ Regional Office along with the Six Mont Compliance Report. mentation of EMPs along allocation of funds has been a regular basis. Copy of the progress of implementation The project proponent shall provide leakage detection mechanised bag cleaning facilities for better maintenary.	Date: 04/07/2024 Date: 04/07/2024 Date: 03/07/2024 Date: 03/07/2024
PPs 3 Comple prepare of action 222 PPs 3 Diliger 23 PPs 3 Online Conser	Responsibility Submission: Complied lied. A detailed action plan for implemed and progress is being monitored or on plan is enclosed (Flag-H) AIR QUALITY MONITORING AND PRESERVATION Submission: Complied nt maintenance of Bags is being done Statutory compliance Submission: Complied application for Consent to Establish	separate account and not to be diverted for any other p wise progress of implementation of, action plan shall b the Ministry/ Regional Office along with the Six Mont Compliance Report. mentation of EMPs along allocation of funds has been n regular basis. Copy of the progress of implementation The project proponent shall provide leakage detection mechanised bag cleaning facilities for better maintenar and are replaced whenever there are leakages. The project proponent shall obtain Consent to Establ under the provisions of Air (Prevention & Control of P 1981 and the Water (prevention & Control of Pollution) from the concerned State pollution control Board/ Con thas been submitted to Chhattisgarh Environment The Consent to Establish was granted by CECB Ref.no.	Date: 04/07/2024 Date: 04/07/2024 Date: 03/07/2024 Date: 03/07/2024

		water required for the project.	
	Submission: Complied bund water will be used for the pro-	ject.	Date: 03/07/2024
25	Statutory compliance	The project proponent shall obtain authorization under Hazardous and other Waste Management Rules, 2016 a from time to time.	
BSP has from C		he handling of the Hazardous Waste Generated in the Plant ration Board which is valid up to 16/04/2024. Copy of the	Date: 03/07/2024
26	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous e monitoring system at process stacks to monitor stack er respect to standards prescribed in Environment (Protect 1986 vide G.S.R 277 {E) dated 31st March 2012(Integra Steel) G.S.R 414 (E) dated 30th May 2008 (Sponge Information to time; S.O. 3305 (E) dated 7th December 2 power Plants) as amended from time to time and conneand CPCB online servers and calibrate these system from time according to equipment supplier specification through the companion of the protection of the companion of the co	mission with etion) Rules ated iron & on) as amend 2015 (Therm ected to SPC) om time to ough labs
31 Nos CPCB to equi	online servers and calibration of the	rering all the process stacks and connected to SPCB and his system is being carried-out from time to time according 19th labs recognized under Environment (Protection) Act, The project proponent shall monitor fugitive emission premises at least once in every quarter through labs recognized.	
	PRESERVATION	Environment (Protection) Act, 1986.	
	Submission: Complied we emissions are being monitored e	every quarter and report submitted to regulatory agencies.	Date: 03/07/2024
	-	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion relevant to the main pollutants released (e.g- PM10 and reference to PM emission, and SOx and NOx in referen NOx emissions) within and outside the plant area at lea locations (one within and three outside the plant area at 1200 each), covering upwind and downwind directions	t Continuous n parameters d PM2.5 in nce to SO2 a ast at four t an angle of
PPs 4 nos of the pla Ambie Dioxid Arseni	AIR QUALITY MONITORING AND PRESERVATION Submission: Complied of Continuous Ambient Air Quality ant area covering upwind and down ent Air quality standards-2009, nan de (SO2), Nitrogen Dioxide (NO2)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion relevant to the main pollutants released (e.g- PM10 and reference to PM emission, and SOx and NOx in reference NOx emissions) within and outside the plant area at least locations (one within and three outside the plant area at	t Continuous n parameters d PM2.5 in nce to SO2 a ast at four t an angle of

			Date:
	Submission: Complied as have been installed at Coke over	ns for recording of battery emissions.	03/07/2024
30	AIR QUALITY MONITORING AND PRESERVATION	Sampling facility at process stacks and at quenching provided as per CPCB guidelines for manual monitoring	
Sampl	Submission: Complied ing facilities at process stacks and a ines for manual monitoring of emis	at quenching towers have been provided as per CPCB ssions.	Date: 03/07/2024
31	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall submit monthly summar continuous stack emission and air quality monitoring a manual stack monitoring and manual monitoring of air /fugitive emissions to Regional Office of MoEF&CC, CPCB and Regional Office of SPCB along with six-monitoring report,	and results of quality Zonal office
Copies results		ntinuous stack emission and air quality monitoring and nanual monitoring of air quality /fugitive emissions at Flag-E	Date: 03/07/2024
32	AIR QUALITY MONITORING AND PRESERVATION	Appropriate Air Pollution Control (APC) system sha for all the dust generating points including fugitive dus vulnerable sources, so as to comply prescribed stack en fugitive emission standards.	st from all
Air Po fugitiv		e been provided for all the dust generating points including The stack and fugitive emissions monitored are meeting	Date: 03/07/2024
33	AIR QUALITY MONITORING AND PRESERVATION	Sufficient number of mobile or stationery vacuum cle provided to clean plant roads. shop floors, roofs, regula	
	Submission: Complied m cleaners are being used to clean	plant roads. Shop floor etc., regularly.	Date: 03/07/2024
Vacuu	AIR QUALITY MONITORING AND PRESERVATION	Recycle and reuse Iron ore fines, coal and coke fines such other fines collected in the pollution control device cleaning devices in the process after briquetting/ agglo	ces and vacuu
PPs Iron or device agglor	MONITORING AND PRESERVATION Submission: Complied re fines, coal and coke fines, lime f s are being recycled back to the pro	such other fines collected in the pollution control device	ces and vacuumeration. Date:
PPs Iron or device agglor	MONITORING AND PRESERVATION Submission: Complied re fines, coal and coke fines, lime f s are being recycled back to the propertion plant on BOO basis will be	such other fines collected in the pollution control device cleaning devices in the process after briquetting/ agglo ines and such other fines collected in the pollution control process after appropriate treatment. A briquetting/	Date: 03/07/2024

36	AIR QUALITY MONITORING AND PRESERVATION	Facilities for spillage collection shall be provided for on wharf of coke oven batteries (Chain conveyors, land industrial vacuum cleaning facility)	
	Submission: Complied les for spillage collection are provided	for coal and coke on wharf of coke oven batteries.	Date: 03/07/2024
37	AIR QUALITY MONITORING AND PRESERVATION	Land-based APC system shall be installed to control emissions	coke pushing
	Submission: Complied pased APC system has been installed to	control coke pushing emissions in Coke oven Battery-	Date: 03/07/2024
38	AIR QUALITY MONITORING AND PRESERVATION	Monitor CO, HC and Oz in flue gases of the coke over detect combustion efficiency and cross leakages in the chamber	
Monito	Submission: Complied or CO, and O2 in flue gases of the coke es in the combustion chamber are being	e oven battery to detect combustion efficiency and cross g measured.	Date: 03/07/2024
39	ENERGY PRESERVATION MEASURES	Waste heat recovery systems shall be provided in all the flue gas or process gas exceeds 300oC	units where
	Submission: Complied heat recovery systems have been instal	lled at Sinter Plants, Coke ovens, Blast Furnaces, Power	Date: 04/07/2024
40	ENERGY PRESERVATION MEASURES	Explore feasibility to install WHRS at Waste Gases f Sinter Machine; Sinter Cooler, and all reheating firm a feasible shall be installed	
Waste Plants.		lled at Sinter Plants, Coke ovens, Blast Furnaces, Power ed in new units under Modernization In future more y.	Date: 04/07/2024
41	ENERGY PRESERVATION MEASURES	Restrict Gas flaring to < 1%	
	Submission: Complied ied/Noted.		Date: 04/07/2024
42	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of buildi light system for all common areas, street lights, parking project area and maintain the same regularly	
2x100	Submission: Complied Kw solar power generation on roof top monitoring and recording of the power	os of Bhilai Niwas has been installed and provision for generation has also been developed.	Date: 04/07/2024
43	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential are	eas

	Submission: Complied ive use of LED lights in their offices and	nd residential areas is being practiced.	Date: 04/07/2024
44	ENERGY PRESERVATION MEASURES	Ensure installation of regenerative type burners on a furnaces	all reheating
	Submission: Complied rative type burners are being used for a	Il reheating furnaces.	Date: 04/07/2024
45	WASTE MANAGEMENT	An attrition grinding unit to improve the bulk densi granulated slag from 1.0 to 1.5 Kg/ I shall be installed river sand in construction industry	
All the when th		is being supplied to Cement Industry. In future if and nt Industry BSP will offer the slag to construction	Date: 04/07/2024
46	WASTE MANAGEMENT	In case of Non-Recovery coke ovens, the gas main gases to the boiler, shall be insulated to conserve heat maximise heat recovery	
	Submission: Complied BSP the coke ovens are of recovery ty	rpe.	Date: 04/07/2024
47	WASTE MANAGEMENT	Tar Sludge and waste oil shall be blended with coal ovens (applicable only to recovery type coke ovens)	charged in co
At BSP being to		charged in coke ovens and waste lubrication oil is and recycled back after recovery/regeneration. The ers	Date: 04/07/2024
48	WASTE MANAGEMENT	Carbon recovery plant to recover the elemental carb GCP slurries for use in Sinter plant shall be installed	oon present in
Present generat		sludge briquetting plant where all the sludges wever BSP will also explore the process of recovery of	Date: 04/07/2024
49	WASTE MANAGEMENT	Waste recycling Plant shall be installed to recover s and flux for recycling to sinter plant and SMS	crap, metallic
At BSP	Submission: Complied Precovery of scrap, metallic and flux is Mill scales is being recycled to BF and S	being done. The recovered scrap, iron fines, Lime Sinter plants.	Date: 04/07/2024
50	WASTE MANAGEMENT	Used refractories shall be recycled as far as possible	2
PPs S Being o	Submission: Complied done.		Date: 04/07/2024
51	WASTE MANAGEMENT	SMS slag after metal recovery in waste recycling factorioned and used for road making, railway hack tapplications. The project proponent shall install a was facility to recover metallic and flux for recycle to sint	pallast and other

project proponent shall establish linkage for I00% 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 payement 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 Date: and pvt agencies involved in Construction/road making activities to promote its use as 04/07/2024 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 Lining Project of NH-32at 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. 100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization 52 WASTE MANAGEMENT and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office **PPs Submission:** Complied Date: 100 Percentage utilization of fly ash as per Fly-ash rules is being followed at BSP. At BSP fly ash 04/07/2024 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. Oil Collection pits shall be provided in oil cellars to collect and 53 WASTE MANAGEMENT reuse/recycle spilled oil. Oil collection trays shall be provided under coils on saddles in cold rolled coil storage area Date: PPs Submission: Complied 04/07/2024 Being Complied. The waste oil, grease and other hazardous waste like acidic sludge from pickling, galvanising chrome plating mills etc. shall be disposed 54 WASTE MANAGEMENT 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 Date: The acid sludge and other hazardous wastes are disposed of as per the Hazardous and Other waste 04/07/2024 (Management and Trans boundary Movement) Rules, 2016. Coal tar sludge / decanter is being recycled to coke ovens or sold to authorized recyclers. Kitchen waste shall be composted or converted to biogas for further 55 WASTE MANAGEMENT use Date: PPs Submission: Complied 04/07/2024 Kitchen waste is composted and used for Horticulture as manure. **GREENBELT** 56 Green belt shall be developed in an area equal to 33% of the plant

	Submission: Complied		
the yea surrour March) about 2 is abou	r 2023-24 BSP has been planted 40680 adding area of Bhilai. Work awarded to b, BSP has planted 40680 trees within the 20-25 hectares. Further Green belt requit 280 Hectares . However by excluding	orrea covering about 1892 hectares till March-2024. In OTrees. 40215 saplings planted at Township and its C.G. Van Vikas Nigam. In the year 2023-24(Aprilthe plant premises and township covering an area of aired to be developed to meet the 33 Percentage criteria g the two reservoirs/cooling ponds area of 1100 SP s green belt coverage comes to 36.34 Percentage.	Date: 04/07/2024
57	GREENBELT	The project proponent shall prepare GHG emissions the plant and shall submit the programme for reduction including carbon sequestration including plantation.	
BSP m		and also the emission data is submitted to World Steel mitment as member under Climate Action.	Date: 04/07/2024
58	PUBLIC HEARING	Emergency preparedness plan based on the Hazard ic and Risk Assessment (HIRA) and Disaster Management implemented	
At BSF identifi approve EPP/D	cation and Risk Assessment (HIRA) a ed by Factory Inspector. Regular mocl	own Emergency preparedness plan based on the Hazard and Disaster Management Plan. The documents are k-drills are organized to check the effectiveness of the ck drill review and also based on recommendations safety management of BSP.	Date: 04/07/2024
59		The project proponent shall carry out heat stress anal	vsis for the
	PUBLIC HEARING	workmen who work in high temperature work zone and Personal Protection Equipment(PPE) as per the norms	d provide
PPs S Nationa	Submission: Complied al occupation Health Centre (NOHC)	workmen who work in high temperature work zone and Personal Protection Equipment(PPE) as per the norms set-up at BSP regularly carry out heat stress analysis for work zone. All the workmen are mandatorily provided	d provide
PPs S Nationa the wor with Pe	Submission: Complied al occupation Health Centre (NOHC) strkmen who work in high temperature versions.	workmen who work in high temperature work zone and Personal Protection Equipment(PPE) as per the norms set-up at BSP regularly carry out heat stress analysis for work zone. All the workmen are mandatorily provided	Date: 04/07/2024 on labour ilities such asking water, the form of
PPs S Nationa the work with Pe	Submission: Complied al occupation Health Centre (NOHC) strkmen who work in high temperature versonal Protection Equipment(PPE) as	workmen who work in high temperature work zone and Personal Protection Equipment(PPE) as per the norms set-up at BSP regularly carry out heat stress analysis for work zone. All the workmen are mandatorily provided per the norms of Factory Act. Provision shall be made for the housing of constructi within the site with all necessary infrastructure and facture fuel for cooking, mobile toilets, mobile STP, safe drink medical health care, crèche etc. The housing may be in temporary structures to be removed after the completic project	Date: 04/07/2024 on labour ilities such asking water, a the form of on of the
PPs S Nationa the work with Pe	Submission: Complied al occupation Health Centre (NOHC) stream who work in high temperature versonal Protection Equipment(PPE) as PUBLIC HEARING Submission: Complied	workmen who work in high temperature work zone and Personal Protection Equipment(PPE) as per the norms set-up at BSP regularly carry out heat stress analysis for work zone. All the workmen are mandatorily provided per the norms of Factory Act. Provision shall be made for the housing of constructi within the site with all necessary infrastructure and facture fuel for cooking, mobile toilets, mobile STP, safe drink medical health care, crèche etc. The housing may be in temporary structures to be removed after the completic project	Date: 04/07/2024 On labour ilities such asking water, a the form of on of the Date: 04/07/2024
PPs S National the work with Period of the P	Submission: Complied al occupation Health Centre (NOHC) or the service of the ser	workmen who work in high temperature work zone and Personal Protection Equipment(PPE) as per the norms set-up at BSP regularly carry out heat stress analysis for work zone. All the workmen are mandatorily provided per the norms of Factory Act. Provision shall be made for the housing of constructi within the site with all necessary infrastructure and facture fuel for cooking, mobile toilets, mobile STP, safe drink medical health care, crèche etc. The housing may be in temporary structures to be removed after the completic project already been completed) Occupational health surveillance of the workers shall	Date: 04/07/2024 On labour illities such asking water, a the form of on of the Date: 04/07/2024

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 March-2024. A detailed status report on CER activities enclosed at Flag-C

Date: 04/07/2024

63

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: 04/07/2024

64

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: 04/07/2024

65

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 Defaming systems have been provided for BF-8 and BF-7.

Date: 03/07/2024

66

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 10 meet the prescribed standards

Regula	Submission: Complied ar monitoring of coke oven stack emovens are meeting the standards.	issions is being done and The Gaseous emissions from	Date: 03/07/2024
67	AIR QUALITY MONITORING AND PRESERVATION	The coke oven gas shall be subjected to desulphur sulphur content in the coal exceeds 1%.	ization if the
	Submission: Complied P the imported coal has Sulphur cont	tent less than 1 Percentage.	Date: 03/07/2024
68	AIR QUALITY MONITORING AND PRESERVATION	Wind shelter piles. fence and chemical spraying stone on the raw material stock piles	nall be provided
	Submission: Complied sprinklers are installed for control or	f dust at raw material stock piles.	Date: 03/07/2024
69	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air cha ACGIH document for all tunnels, motor houses, Oil	
Ventila	Submission: Complied ation system for adequate air change llars are installed.	es as per ACGIH document for all tunnels, motor houses,	Date: 03/07/2024
70	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install Dry Gas Clean filter for Blast Furnace and-SMS convertor- (to be case basis depending on type and size of plant)	
At BS	Submission: Complied P consultant MECON has recommer rtors as the Dry Gas Cleaning Plant a	nded wet gas cleaning systems for BFs and SMS are not feasible.	Date: 03/07/2024
71	AIR QUALITY MONITORING AND PRESERVATION	Dry quenching (CDQ) system shall be installed al generation facility from waste heat recovery from h	•
Dry qu	Submission: Complied nenching (CDQ) system along with pass been installed for Coke Oven Bat	power generation facility for waste heat recovery from hotery-11.	Date: 03/07/2024
72	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous monitoring system with respect to standards prescri Environment (Protection) Rules 1986 vide G.S.R 27 3ts(March 20I2 {Integrated iron & Steel); G.S.R 41 May 2008 (Sponge Iron) as amended from time to t (E) dated 7th December 2015 (Thermal Power Plan from time to time and connected to SPCB and CPC and calibrate these system from time to time accord supplier specification through labs recognised under (Protection) Act 1986 or NABL accredited laborato	bed in 77 (E) dated 4(E) dated 30 ame; S.O. 3305 as amended B online servers ing to equipment Environment
Contin		ave been installed for all three plant outlets Viz Outlet-A, PCB online servers Calibration of the systems is being	Date: 03/07/2024

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.						
Ground through		te a year (pre and post monsoon) in the adjacent areas (protection) act, 1986 and NABL accredited	Date: 03/07/2024			
74	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall submit monthly summar continuous effluent monitoring and results of manual and manual monitoring of ground water quality to Reg MoEF&CC, Zonal office of CPCB and Regional Office along with six-monthly monitoring report.	effluent testing gional Office o			
Monthl	inual monitoring of ground water quali	ent monitoring and results of manual effluent testing ty reports (October-2021 to March-2022) are enclosed	Date: 03/07/2024			
75	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall provide the ETP for cok product to meet the standards prescribed in G.S.R 277 March 2012 (integrated iron & Steel); G-S.R 414 (E)d 2008 (Sponge Iron) as amended from time to time; S.C dated 7e December 2015 (Thermal Power Plants) as at time to time as amended from time to time.	(E) dated 31st ated 30s May D. 3305 (E)			
At BSF		ant has been installed and is working effectively and 7 (E) dated 3lst March 2012 (integrated iron and Steel)	Date: 03/07/2024			
76	WATER QUALITY MONITORING AND PRESERVATION	Adhere to 'Zero Liquid Discharge'				
BSP ha 5000 m		Outlet-A, B and C). Effluent from outlet-A (About e recycling schemes for Outlet-B (450 m3/hr) and of completion.	Date: 03/07/2024			
77	WATER QUALITY MONITORING AND PRESERVATION	Sewage Treatment Plant shall be provided for treatment wastewater to meet the prescribed standards.	ent of domest			
A 30 M	Submission: Complied ILD sewage recycling plant has been ited in the Township.	nstalled for treatment of recycling of domestic sewage	Date: 03/07/2024			
78	WATER QUALITY MONITORING AND PRESERVATION	Garland drains and collection pits shall be provided pile to arrest the runoff in the event of heavy rains and water pollution due to surface run off				
Garland	Submission: Complied d drains and collection pits have been per pollution due to surface run off.	provided at the Raw Material handling area to check	Date: 03/07/2024			
79	WATER QUALITY MONITORING AND	Tyre washing facilities shall be provided at the entra	nce of the plan			

PPs Compl	Submission: Complied ied.		Date: 03/07/2024
80	WATER QUALITY MONITORING AND PRESERVATION	CO2 injection shall be provided in GCP of SMS to recirculating water to ensure optimal recycling of treated converter gas cleaning	
At SM	Submission: Complied S, pH in circulating water of GCPs is be tant. The option of CO2 injection is also	eing maintained through addition of Use of Dispersant being explored.	Date: 03/07/2024
81	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall practice rainwater harves maximum possible extent	sting to
At presarea. A Rechard Water S.S Sc. 3 near 23, Jayrecharg	approx. 71500 m3 rain water is channeling pits were constructed near 73 existing Harvesting structure were installed at Thool Sector-VII and G.S.S School-V. 5 FSNL, Sector-3 near BTI Hostel, Sectoranti Stadium) with recharge bore well a	from the rooftops of Plate Mill and Machine Shop-II tzed to Maroda-I reservoir through storm water drains. It is borewell to arrest the over flow /excess water. Rain A Building, Bhilai Niwas, Bhilai Technical Institute, Recharge ponds were dug in Bhilai Township (Sector-r-5 behind Andhra Bhawan, Hospital Sector near D-tt middle bottom of pond at two locations. 1 big made Behind Bhilai Institute of Technology (BIT)	Date: 03/07/2024
82	WATER QUALITY MONITORING AND PRESERVATION	Treated water from ETP of CCIBP shall not be used quenching	for coke
	Submission: Complied B-11 dry quenching system has been in	stalled.	Date: 03/07/2024
83	WATER QUALITY MONITORING AND PRESERVATION	Water meters shall be provided at the inlet to all unit the steel plants	processes in
	Submission: Complied meters are installed at strategic location	s to measure water flow to the process plants.	Date: 03/07/2024
84	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall make efforts to minimise consumption in the steel plant complex by segregation practicing cascade use and by recycling treated water	
Water for all		reduced through adoption of local recycling systems SMS-3 and BF-8). The effluents from older units are tment for re-use as industrial water.	Date: 03/07/2024
85	Noise Monitoring & Prevention	Noise monitoring and prevention	
Regula		ential high noise generating areas like BFs, Power silencers etc. have been provided at all the high noise	Date: 03/07/2024

86	Noise Monitoring & Prevention	Noise level survey shall be carried as per the pre and report in this regard shall be submitted to Reg Ministry as a part of six-monthly compliance repo	gional Officer of th
Noise 1	Submission: Complied level survey is being carried as per the ped (Flag-G)	prescribed guidelines and report in this regard is	Date: 03/07/2024
87	Noise Monitoring & Prevention	The ambient noise levels should conform to the prescribed under E(P)A Rules. 1986 viz.75 dB(A) and 70 dB(A) during night time	
Regula		ferent locations of township (Market area, schools, levels are meeting the standards (Flag-G)	Date: 03/07/2024
88	ENERGY PRESERVATION MEASURES	The project proponent shall provide TRTs to rectop gases of Blast Furnaces	cover energy from
	Submission: Complied BF-8, TRTs to recover energy from to	p gases of Blast Furnace has been installed.	Date: 04/07/2024
89	ENERGY PRESERVATION MEASURES	Coke Dry Quenching (CDQ shall be provided for both recovery and non-recovery type coke over	
	Submission: Complied Coke oven Battaery-11, Coke Dry Qu	on him (CDO) has been installed	Date: 04/07/2024
110 110 11		enching (CDQ) has been installed	
	ENERGY PRESERVATION MEASURES	Waste heat shall be recovered from Sinter Plants Machines	s coolers and Sinte
90 PPs S Waste	ENERGY PRESERVATION MEASURES Submission: Complied	Waste heat shall be recovered from Sinter Plants	Date:
90 PPs 3 Waste SP-3.	ENERGY PRESERVATION MEASURES Submission: Complied	Waste heat shall be recovered from Sinter Plants Machines	Date: 04/07/2024
PPs SWaste SP-3.	ENERGY PRESERVATION MEASURES Submission: Complied heat recovery systems have been install ENERGY PRESERVATION	Waste heat shall be recovered from Sinter Plants Machines led for Sinter Plants coolers and Sinter Machines of Use torpedo ladle for hot metal transfer as far as not used, provide covers for open top ladles	Date: 04/07/2024 s possible. If ladles Date:
90 PPs: Waste SP-3. 91 PPs: At new	ENERGY PRESERVATION MEASURES Submission: Complied heat recovery systems have been instal ENERGY PRESERVATION MEASURES Submission: Complied	Waste heat shall be recovered from Sinter Plants Machines led for Sinter Plants coolers and Sinter Machines of Use torpedo ladle for hot metal transfer as far as not used, provide covers for open top ladles	Date: 04/07/2024 s possible. If ladles Date: 04/07/2024
90 PPs 3 Waste SP-3. 91 PPs 3 At new	ENERGY PRESERVATION MEASURES Submission: Complied heat recovery systems have been install ENERGY PRESERVATION MEASURES Submission: Complied by BF-8, torpedo ladle is being used for heat recovery	Waste heat shall be recovered from Sinter Plants Machines led for Sinter Plants coolers and Sinter Machines of Use torpedo ladle for hot metal transfer as far as not used, provide covers for open top ladles not metal transfer. Use hot charging of slabs and billets/blooms as	Date: 04/07/2024 s possible. If ladles Date: 04/07/2024 far as possible Date:
90 PPs 3 Waste SP-3. 91 PPs 3 At new	ENERGY PRESERVATION MEASURES Submission: Complied heat recovery systems have been install ENERGY PRESERVATION MEASURES Submission: Complied v BF-8, torpedo ladle is being used for h ENERGY PRESERVATION MEASURES Submission: Complied	Waste heat shall be recovered from Sinter Plants Machines led for Sinter Plants coolers and Sinter Machines of Use torpedo ladle for hot metal transfer as far as not used, provide covers for open top ladles not metal transfer. Use hot charging of slabs and billets/blooms as	Date: 04/07/2024 s possible. If ladles Date: 04/07/2024 far as possible Date:
90 PPs; Waste SP-3. 91 PPs; At new 92 PPs; Hot ch	ENERGY PRESERVATION MEASURES Submission: Complied heat recovery systems have been install ENERGY PRESERVATION MEASURES Submission: Complied v BF-8, torpedo ladle is being used for h ENERGY PRESERVATION MEASURES Submission: Complied	Waste heat shall be recovered from Sinter Plants Machines led for Sinter Plants coolers and Sinter Machines of Use torpedo ladle for hot metal transfer as far as not used, provide covers for open top ladles not metal transfer. Use hot charging of slabs and billets/blooms as a single done at Rolling mills.	Date: 04/07/2024 s possible. If ladles Date: 04/07/2024 far as possible

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

ENERGY MANAGEMENT DEPARTMENT BHILAI STEEL PLANT

SUB: MOCK DRILL CONDUCTED AT ROLLING MILLS GAS BOOSTER STATION, EMD. Dated:30/11/2023

Incident in Brief:

On 30/11/2023 morning at 10.55 AM, EMD Mech. group was engaged in fabrication work job near R-6 out let U seal of Rolling Mill gas Booster station. CO concentration of the site before start of the job was monitored by portable CO monitor and was nil. At 11.00 AM, group noticed the portable CO monitor started showing concentration above 1900 ppm. Mr. Rishi Kumar, supervisor who was monitoring fabrication job stopped the work and asked his group to immediately evacuate. Suddenly fire observed in the U seal drain valve flange near R-6 U seal. Rishi Kumar rushed to control room and informed Aswani Patil, operator and Mr Das, AGM. Meanwhile mech group immediately moved away from the leakage site and assembled at Assembly Point. Operators immediately informed the incident to Energy Centre and Mr.Ajay Gaighate(GM & Section i/c). The Siren was blown at 11.02 AM by the operator to alert the persons about the emergency. Immediately, all the persons working in Rolling Mill gas Booster station complex reported at Assembly Point. Meanwhile, Energy Centre shift i/c informed about the emergency to various agencies/persons(annexture-1 attached). Mr. Das, AGM took the charge of Incident Controller of the site, barricaded the gas affected area and managed the situation till Mr. Rakesh Joshi, Chief Incident Controller arrived at the site. All the agencies/persons immediately reached at site. Fire brigade doused the fire. No persons got affected. Head counting was done at Assembly point and found normal. Meanwhile, CISF had cordoned off the road. Later on, Gas Safety team identified gas leakage from flange of packing of R6 U seal drainer bottom valve and arrested the gas leakage by tightening the bolts. After confirming CO concentration nil in the area, they gave clearance to Mr. Rakesh Joshi(CGM & Chief Incident Controller)EMD. Finally, the Siren sound was blown to declare normalcy at 11.20 AM.

Post Mock Drill review Meeting:

Post Mock drill review meeting was held at Office of CGM(EMD) immediately after the mock drill to discuss about the incident and the drill carried out.

Observations:

- 1. All the persons and agencies reached the site with required preparedness in time.
- 2. The communication system, rescue & evacuation, cordon off, risk mitigation and medical service found satisfactory. Energy Centre advised to inform the Plant Control after normalcy of incident.
- 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. Operators are found well trained to use breathing apparatus and have proficiency to handle fire and mitigation of hazard.
- 5. Overall the Mock drill was conducted satisfactorily.

Members Present at Post Mock Drill Review meeting:

- 1. Rakesh Joshi, (CGM)EMD
- 2. S. K. Dashore, GM(EMD)
- 3. Bonya Mukherjee, GM, Energy centre (EMD)
- 4. Ajay Gajghate, GM, (GCP and 2.5 MT,EMD)
- 4. S.Ramani, GM, Gas safety(EMD)
- 5. Y. Y. Konnur, GM & DSO(EMD)
- 6. Amit Khatre, DY CFO(FIRE BRIGADE)
- 7. Indrajit Das AGM, 2.5 MT(EMD)
- 8. S R Dhruw, Sr Mgr, GS(EMD)
- 9. T.Bharadwaj, JO, Energy CentreAM(EMD)
- 10. Ajay Gone, AGM(SED)
- 11. Swatantra Kumar, Master Instructor(Civil Defence)
- 11. K R Sahu Ey.Operator(SED)

Annexure-1

S.NO	AGENCY/PERSON	INFORMED TIME	ARRIVAL TIME
1	Information to Energy centre and Section I/C by Booster operator.	11.02 AM	
	Information by Energy Centre to following agencies/persons.		er lando Medio Istica
2	Fire brigade	11.03 AM	11.06 AM
3	MMP	. 11.03 AM	11.07 AM
4	Gas Safety	11.04 AM	11.10 AM
5	CISF	11.04 AM	11.08 AM
6	HOD	11.05 AM	11.09 AM
7	DSO	11.05 AM	11.09 AM
8	SED	11.06 AM	11.15 AM
9	Plant control	11.06 AM	log e - Morte annualit (1)
10	Civil Defence	11.07 AM	11.10
11	Energy centr I/C	11.07 AM	

7. 7. Lanns Y Y KONNUR 6/12/23 GM & DSO(EMD)

वाप.वाय.कोन्नुर/Y.Y.KONNUR विभागीय सुरक्षा अधिकारी/महाप्रवं का/DSO/GM का.प्र.वि./E.M.D. वि. व. ची./B.S.P

	REPORT OF SAFETY TRAINING AND WORK SHOP		Oct-23 t	to Mar-24
	SUMMERY REPORT		Year-	2023-24
			Progs.	Participants
	EXECUTIVES		89	972
	NON EXECUTIVES		273	3992
	REGULAR EMPLOYEES		362	4964
	CONTRACTUAL WORKERS		14	334
	CONTR. WORKERS REFRESHER TRAINING (AT WORK AREA)		275	5264
	HEIGHT PASS (WORKS AREA)			3756
	HEIGHT PASS (PROJECTS AREA)			128
	TOTAL HEIGHT PASS ISSUED			3884
SI.	Name of the Programme	Dura tion	Yearly (Cumulative
		Days)	Progs.	Participants
EXE	CUTIVES	Days	11053.	Tarticipants
	Audit training		0	0
2	Bow Tie Analysis		0	0
3	Chemical Safety		0	0
4	Consequence Analysis		0	0
5	Contractor Labour Safety in Steel Industries		0	0
6	Contractor safety Management system		5	99
7	Defence Driving (Four Wheeler)		6	61
8	Defensive driving		0	0
9	DSOs – Role & Responsibility		0	0
10	Electrical safety training by SIEMENS		0	0
11	Emergency Preparedness plan		0	0
12	General Safety Awareness (LGI)		2	83
13	HAZOP Training (By NSC)		0	0
14	High hazard Process Safety information and Hazard mapping		1	3
15	Human Factors		6	52
16	Incident Investigation		0	0
17	Intensify safety training		1	17
18	Interaction for Safety Encouragement & Engagement (i-SEE)		8	107
19	Leadership		0	0
20	Operating Authority - Role & Responsibility for Safety of Contractor Workers		0	0
21	Road vehicle operation		1	3
22	Safety in Liquid Metal Handling		0	0
23	Safety in Maintaining Physical work environment		0	0
24	Safety in Material Handling		1	1
25	Safety in Operation of Conveyor Belts		0	0
26	Safety Training for HODs & Factory Managers		0	0
27	standard awareness on storage, handling &use of gas cylinder		1	18

SI.	Name of the Programme	Dura tion	Yearly C	Yearly Cumulative	
		(Days)	Progs.	Participants	
28	standard awareness in operation &maintenace of conveyor belt.		1	4	
29	Standard Awareness on Electrical Safety		1	8	
30	Standard awareness on Engery isolation		2	11	
31	standard awareness on illuminiation at work place		4	50	
33	Standard awareness programme on Confined Space		3	30	
34	Standard awareness programme on High Hazard Process		2	20	
35	Standard awareness programme on HIRA/JSA		12	139	
36	Standard awareness programme on Permit to Work		12	141	
37	Standard awareness programme on working at height		4	28	
38	Standardard awareness on barricating &signage		1	5	
39	Training on near miss		0	0	
40	Train the Trainer on Behavioral intervention		0	0	
41	Train the Trainer on Confined Space		0	0	
42	Train the Trainer on Defensive Driving		0	0	
43	Train the trainer on Electrical Safety		1	11	
44	Train the trainer on Engergy isolation		0	0	
45	Train the Trainer on High Hazard Process		0	0	
46	Train The Trainer On Human Factor		0	0	
47	Train the Trainer on Incident Investigation		0	0	
48	Train the trainer on PPEs		0	0	
49	Train the trainer on Working At Height		0	0	
50	Electrical safety		5	17	
51	TTT contract management system		6	50	
52	Recuse training		3	14	
		Total	89	972	
NON	-EXECUTIVES				
1	Achieving awareness in Occupational, Health & First Aid		3	56	
2	Behavior Based Safety		1	6	
3	Chemical Safety		1	19	
4	Defensive driving programme		74	1145	
5	Electrical Safety training		10	81	
6	Gas Safety in Steel Industry		6	66	
8	General Safety Awareness (LGI)		2	46	
9	Incident investigation traiing		2	2	
10	Standard awareness on operation &maintenance of conveyor belt		1	6	
11	Intensify Safety Training		3	29	
12	Interaction for Safety Encouragement & Engagement (i-SEE)		14	155	
13	Material Handling and Rigging practices		5	86	

SI.	Name of the Programme	Dura tion	Yearly (Cumulative
		(Days)	Progs.	Participants
14	Refresher training safe operating practices of Hydromoc crane/hydra/fowler		0	0
15	Rescue training		3	29
16	job specific training		1	17
17	Safety Circle Training		0	0
18	Safety in crane operation &maintenance		0	0
19	Safety in Traffic Operation (for T&D)		6	99
20	Defensive driving for four wheeler		1	6
21	Safety Proficiency for Elect.Maint.& Operation		0	0
22	Safety Proficiency for Mech.Maint.&Mtrl. Handling		0	0
23	Standard awareness on illumnination at work place.		2	51
24	train the trainer (Defensive driving)		0	0
25	Safety training for Gas cutter & welders		1	18
26	Safety training on road vehicle operation		1	16
27	Safety Training on Human Factors		72	1235
28	Safety Training on Near-Miss Cases		0	0
29	Standard awareness on barricading &sinage		3	35
30	standard awareness on confined space		6	56
31	standard awareness on electrical safety		5	74
32	standard awareness on engery isolation		3	77
33	Standard awareness on HHP		4	31
34	Standard Awareness on HIRA/JSA		11	130
35	Standard awareness on Permit to work		15	234
36	Standard Awareness on PPE		3	26
37	standard awareness on storage &handing of gas cylinder		3	27
38	Standard Awareness on WORKING AT HEIGHT		9	106
39	Trian the Trainer on ISEE		0	0
40	Standard awareness on illumnination at work place.		2	28
		Total	273	3992
	TRATUAL WORKERS			_
1	'JAGRITI'-Awareness Prog (Cont. Workers)		0	0
2	Specialized Safety Training Programme on "Fatality Risk Control"		0	0
3	Safety Training for Shunting Staff of T&D		7	142
4	Safety Training on Human Factors		1	24
5	Safety Training for Crane operators (Cont.Workers)		0	0
6	Awareness programme on health &safety		0	0
7	Safety Refresher Training For Contractor Workers		3	86
8	safety Training for Co contractor workers		3	82
		Total	14	334



FLAG-C

Corporate Environment Responsibility

Status As On March 2024

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

(Status as on March 2024)

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	Locati on	Name of Project/Activity (Brief detail of the project, duration)	Approx. Amount earmarked for the project	Status (as on March 2024)
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.
			II. Four Seater Sulabh Shauchalya at Bazar Chowk to be constructed.	6.00	Completed.
			III. Sports equipments for boys and girls to be provided.	0.50	Completed.

S. N o.	SAIL Plant /Unit	Location	Name of Project/Activity (Brief detail of the project, duration ⁾	Approx.Amou nt earmarked for the project	Status (as on March 2024)
2.	2. BSP	Khapri (Kutelabh ata),Durg	I. Construction of Boundary wall of Panchayat Bhawan along with tree plantation all around the periphery.	10.00	Completed.
			II. New Bore wells at 2 locations fitted with Solar operated Pumps to be provided.	10.00	Completed.
			III. Two extra rooms in Govt. Primary School to be constructed.	10.00	Completed.
			IV. Dustbin for 10 villages to be provided	0.50	Completed.
			V. Beautification and tree plantation around Shitala Talab to be provided.	2.00	Completed.

S.No.	SAIL Plant/ Unit	Locat ion	Name of Project/Activity (Brief detail of the project, duration ⁾	Approx.Amo unt earmarked for the project	Status (as on March 2024)
3.	BSP	Duma rdih ,Durg	I. Service road from main road cremation ground approx700 meters to be cemented	10.00	Completed.
			II. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Completed.
4.	BSP	Pauw ara,D urg	I. Sanitary Pad Machine women group to be provided	3.00	Completed.
			II. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Completed.
			III. Tree plantation at new talab to be provided	1.00	Completed.
			IV. Funds to be provided Sarpanch for cleaning of Wells with supervision / monitoring by BSP.	1.00	Completed.
			V. Syntax tank with pump to be provided at Health Center.	0.25	Completed.

S.No.	SAIL Plant/ Unit	Locat ion	Name of Project/Activity (Brief detail of the project, duration)	Approx.Amount earmarked for the project	Status (as on March 2024)
5.			I. Garage for School Bus at Muskan School to be constructed.	1.00	Completed.
		Patora.	I. Four Seater Sulabh Shauchalya at Govt. Middle school for boys to be constructed.	3.00	Completed.
6.	BSP		II. Boundary wall at high school of length 165 meter shall be constructed. CC road to be constructed.	15.00	Completed.
		Dhuara SP bhatta, Durg	I. Four seater Sulabh Shauchalya at Khadan Talab for both men and women to be constructed.	12.00	Completed.
7.	BSP		II. Additional 2 class rooms at High school premise to be constructed.	10.00	Completed.
			III. Boundary wall of approx 380 meters to be constructed at high school premise. W. Construction of sonarate	20.00	Completed.

S.No.	SAIL Plant/ Unit	Location	Name of Project/Activity (Brief detail of the project, duration)	Approx. Amount earmarked for the project	Status (as on March 2024)
	BSP	Mahakaka la- 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.
8.			II. C.C. road to be constructed at ward no 05 for approx. 250 meters.	4.00	Completed.
			III. C.C. road to be constructed at ward no 04 for approx. 250 meters.	4.00	Completed.
			IV. Four seater Sulabh Shauchalya for boys and girls to be constructed.	12.00	Completed.
		Aundhi,Du rg	I. Pipeline for drinking water pipeline to be extended further by 1000 m approx.	7.00	Completed.
9.	BSP		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.
			I. New Bore wells at required location fitted with solar	10.00	Completed.
10.	BSP	Pahandor,	operated Pumps to be provided.		
		Durg	II Pineline for drinking water		Completed

S.No.	SAIL Plant/ Unit	Location	Name of Project/Activity (Brief detail of the project, duration)	Approx.Amount earmarked for the project	Status (as on March 2024)
11.	BSP	Bhilai, Durg	I. One E-rickshaw to be provided facilitate the plantation activities	3.00	Completed.
			II. One Power driven portable drilling machine facilitate the plantation activities	1.00	Completed.
	BSP	Mahakakh urd, Durg	I. New Bore well fitted with Solar operated pump with storage tank at one place to be provided	5.00	Completed.
12.			II. Four seater Sulabh Shauchalya for men and women to be constructed	12.00	Completed.
			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, NAVARAIPUR ATAL NAGAR, RAIPUR (C.G.) 492002

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

No. 1681/HSMD/HO/CECB/2024

Nava Raipur Atal Nagar, Date 27/05/2024

To,

M/s Steel Authority of India Limited,

Bhilai Steel Plant, Bhilai, District - Durg (C.G.)

Sub:- Grant of amendment and subsequent renewal of authorization under the Hazardous

and Other Wastes (Management & Transboundary Movement) Rules, 2016.

Ref:- Your Online application no. 14352806 dated 23/12/2023 & Subsequent

Correspondence ending dated 03/05/2024.

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Chhattisgarh Environment Conservation Board had granted of authorization under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 vide letter no. 7022/HSMD/HO/CECB/2019 dated 18/11/2019 for following hazardous waste, category and quantity subject to fulfillment of the terms and conditions mentioned therein. :-

S. No.	Name of Hazardous Waste	Category	Quantity/Year
1.	Benzol acid sludge / Acid Tar Sludge	(Schedule-I, Cat.No 3.3)	2500 T/Year
2.	Tar storage tank residue	(Schedule-I, Cat.No 13.5)	1500 T/Year
3.	Decanter tank tar sludge	(Schedule-I, Cat.No 13.4)	4000 T/Year
4.	Used or spent oil	(Schedule-I, Cat.No 5.1)	500 T/Year
5.	Spent solvents	(Schedule-I, Cat.No 20.2)	500 T/Year
6.	Oil and grease skimming	(Schedule-I, Cat.No 35.4)	100 T/Year
7.	Chemical sludge from waste water treatment	(Schedule-I, Cat.No 35.3)	2500 T/Year
8.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	(Schedule-I, Cat.No 33.1)	275 T/Year
9.	Process acidic residue, filter cake, dust	(Schedule-I, Cat.No 17.1)	500 T/Year
10.	Copper Compound	(Schedule II, A 66)	400 T/Year
11.	Lead and Lead Compounds	(Schedule II, A 5)	50 T/Year
12.	Asbestos	(Schedule II B1)	80 T/Year

Industry, vide their online application no. 14352806 dated 23/12/2023 has requested for an amendment and subsequent renewal with respect to hazardous waste and their corresponding

quantities mentioned therein. Based on the inspection report from R.O. Durg and after considering the application, facts and materials in records the board has decided to issue amendment and subsequent renewal of authorization with respect to hazardous wastes and their corresponding quantities mentioned below:-

		Authorized mode of	
S. No.	Name & Category of Hazardous	disposal or recycling or	Ouantity/Vaar
S. 1NO.	Waste as per Schedules	utilization or co- processing	Quantity/Year
		etc.	
1.	Benzol acid sludge / Acid Tar Sludge	Captive landfill/ Co-Processing	2500 T/Year
1.	(Schedule-I, Cat.No 13.3)	in Cement Kiln	
2.	Tar storage tank residue	Recovery and reuse captive/	1500 T/Year
۷.	(Schedule-I, Cat.No 13.5)	Sale to authorized recyclers	
3.	Decanter tank tar sludge	Recovery and reuse captive/	4000 T/Year
J.	(Schedule-I, Cat.No 13.4)	Sale to authorized recyclers	
4.	Used or spent oil	Recovery and reuse captive/	500 T/Year
4.	(Schedule-I, Cat.No 5.1)	Sale to authorized recyclers	
5.	Spent solvents	Recovery and reuse captive/	500 T/Year
J.	(Schedule-I, Cat.No 20.2)	Sale to authorized recyclers	
6.	Oil and grease skimming	Recovery and reuse captive/	100 T/Year
0.	(Schedule-I, Cat.No 35.4)	Sale to authorized recyclers	
7.	Chemical sludge from waste water	Recovery and reuse captive	2500 T/Year
7.	treatment (Schedule-I, Cat.No 35.3)	Recovery and reuse captive	
	Empty barrels/containers/liners	Recovery and reuse captive/	275 T/Year
8.	contaminated with hazardous chemicals	Sale to authorized recyclers	
	/wastes (Schedule-I, Cat.No 33.1)	Sale to admortzed recyclers	
9.	Process acidic residue, filter cake, dust	Recovery and reuse captive	500 T/Year
	(Schedule-I, Cat.No 17.1)	,	
10.	Copper Compound (Schedule II, A 66)	Sale to authorized recyclers	400 T/Year
11.	Lead and Lead Compounds (Schedule	Sale to authorized recyclers	50 T/Year
11.	II, A 5)	Sale to authorized recyclers	
12.	Asbestos (Schedule II B1)	Captive landfill	80 T/Year
13.	Wastes or residues containing oil	Co-processing in steel melting	5 T/Year
13.	(Schedule-I, Cat. No 5.2)	shop- Captive	

The amendment and renewal of authorization shall be valid for the period of Five Years i.e. from 17/04/2024 to 16/04/2029. 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 634/HO/HSMD/CECB/NAVA RAIPUR ATAL NAGAR, RAIPUR
- 2. Reference of Online application no. 14352806 dated 23/12/2023 & Subsequent Correspondence ending dated 03/05/2024.

3. The operator of facility i.e. occupier M/s Steel Authority of India Limited, Bhilai Steel Plant, Bhilai, District - Durg (C.G.) is hereby granted an amendment and subsequent renewal of 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 Bhilai Steel Plant, Bhilai, District - Durg (C.G.).

Detail of Authorization

S. No.	Name & Category of Hazardous Waste as per Schedules	Authorized mode of disposal or recycling or utilization or co- processing etc.	Quantity/Year
1.	Benzol acid sludge / Acid Tar Sludge (Schedule-I, Cat.No 13.3)	Captive landfill/ Co- Processing in Cement Kiln	2500 T/Year
2.	Tar storage tank residue (Schedule-I, Cat.No 13.5)	Recovery and reuse captive/ Sale to authorized recyclers	1500 T/Year
3.	Decanter tank tar sludge (Schedule-I, Cat.No 13.4)	Recovery and reuse captive/ Sale to authorized recyclers	4000 T/Year
4.	Used or spent oil (Schedule-I, Cat.No 5.1)	Recovery and reuse captive/ Sale to authorized recyclers	500 T/Year
5.	Spent solvents (Schedule-I, Cat.No 20.2)	Recovery and reuse captive/ Sale to authorized recyclers	500 T/Year
6.	Oil and grease skimming (Schedule-I, Cat.No 35.4)	Recovery and reuse captive/ Sale to authorized recyclers	100 T/Year
7.	Chemical sludge from waste water treatment (Schedule-I, Cat.No 35.3)	Recovery and reuse captive	2500 T/Year
8.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes (Schedule-I, Cat.No 33.1)	Recovery and reuse captive/ Sale to authorized recyclers	275 T/Year
9.	Process acidic residue, filter cake, dust (Schedule-I, Cat.No 17.1)	Recovery and reuse captive	500 T/Year
10.	Copper Compound (Schedule II, A 66)	Sale to authorized recyclers	400 T/Year
11.	Lead and Lead Compounds (Schedule II, A 5)	Sale to authorized recyclers	50 T/Year
12.	Asbestos (Schedule II B1)	Captive landfill	80 T/Year
13.	Wastes or residues containing oil (Schedule-I, Cat. No 5.2)	Co-processing in steel melting shop- Captive	5 T/Year

⁽¹⁾ The amendment and renewal of authorization shall be valid for the period of Five Years i.e. from 17/04/2024 to 16/04/2029.

⁽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. Industry shall have to register in EPR portal of CPCB, Delhi as per Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 as amended if it comes under the categories of used oil producer, importer, recyclers/utilizers and collection agent.
- 5. 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.
- 6. The person authorized shall implement Emergency Response Procedure (ERP) which this authorization 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.
- 7. The person authorized 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".
- 8. It is the duty of the authorized person to take prior permission of the Chhattisgarh Environment Conservation Board to close down the facility.
- 9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 10. Industry shall prepare emergency response plan (ERP) and ensure implementation of the same at the time of any accident occurs during handling and transportation of hazardous waste as per CPCB guidelines.
- 11. The hazardous and other waste, generated during recycling or reuse or recovery or preprocessing or utilization of imported hazardous or other wastes shall be treated and disposed off as per standard operating procedures/guidelines issued by CPCB from time to time.
- 12. An application for the renewal of an authorization shall be made three months before the expiry of authorization as laid down in the Rules.
- 13. Annual return in form IV shall be filed by June 30th for the period ending 31st March of the last financial year.
- 14. The wastes shall be collected and stored properly with adequate safety measures as per rule.
- 15. Authorized person shall comply with the provisions of rule 17, 18 and 19 for packing, labeling and transport of Hazardous Waste.
- 16. The authorized person should maintain the record of Hazardous Waste as per Form-3 of Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
- 17. 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.
- 18. The industry shall display data outside factory gate, about on quantity and nature of hazardous chemicals and wastes being used in the plant, water quality and air emissions and solid wastes generated within the factory premises. The display board shall be made and placed as per CPCB guidelines.
- 19. At a time only one type/ Category of Hazardous waste shall be co-processed in the cement kiln. A log book of the waste co-process shall be maintained including emission monitoring result during co-processing.

- 20. Industry shall ensure that the transportation of hazardous wastes should be carried out through GPS enable dedicated vehicles of authorized transporters only.
- 21. 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.
- 22. Before the wastes given for thermal/biological/physico-chemical treatment; should be completely dewatered, detoxified, and proper conditioned and any possible recovery is made before their disposal.
- 23. The industry should constitute a hazardous waste management cell to take care of the management aspect to the hazardous waste generated in the plant.
- 24. 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.
- 25. At least four nos. of piezometric points should be provided around the storage site of H.W. to monitor the leaching of the waste and the monitoring report of the same shall be submitted to the board every six monthly. Each type of waste shall be stored in a separate storage cell.
- 26. 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.
- 27. In the case 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].
- 28. The authorization obtained by the Chhattisgarh Environment Conservation Board should be prominently displayed.
- 29. Used batteries shall be disposed of as per the Batteries (Management & Handling) Rules, 2001.
- 30. 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 Nava Raipur Atal Nagar, Raipur (C.G.)

Endt. No. 1682/H.O./HSMD/CECB/2024 Nava Raipur Atal Nagar, Date 27/05/2024

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 Nava Raipur Atal Nagar, Raipur (C.G.)

October 2023 to March 2024

FLAG E

E-1

Stack emission

October 2023 to March 2024

Month- October 2023

A.						Stack	emission					
Name of the Plan		Stack onnecte d to	Height of the stack (m)	Diameter of the stack (m)	Pollution Control unit provided	the monitoring (duration)	Production fig. of the unit, during the	Flow rate of the flue gas	Parameters (whichever a	are applica (9)	•	
(1)		lame of ne unit) (2)	(3)	(4)	(Name) (5)	1 1 1 1	period of monitoring (7)	(8)	Particulate matter(PM) (Norm:50mg/ Nm3)	SO ₂ (250mg/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
						Blast Furna	nce					
BF-1 (Process	s) S	toves	60	2.5	GCP (Scrubber)	25 Oct,11:00-12:05 (65 Minute)	1104	59144	24.35	136.24	43.24	0.48% V/V
BF-4 (Process	s) S	toves	60	2.5	do	26 Oct,11:00-12:00 (60 Minute)	2221	123154	18.91	136.24	146.23	0.42% V/V
BF-5 (Process	s) S	toves	60	3.5	do	25 Oct,02:15-03:15 (60 Minute)	2497	121184	23.86	107.42	135.71	0.49% V/V
BF-7 (Process	s) S	toves	70	3.5	do	19 Oct, 11:50-12:50 (60 Minute)	3367	107516	19.38	68.12	39.48	0.50% V/V
BF-8) (Process	s) S	toves	70	3.5	do	21 Oct, 11:20-12:20 (60 Minute)	7222	168253	21.35	166.00	60.16	0.52% V/V
						SMS-2						
LF-1	Ladle	Furnace	60	1.65	Bag Filter	12 Oct , 10:00-10:40 (40 Minute)	1800	116421	49.17	74.50	-	-
LF-2	Ladle	Furnace	50	1.5	Bag Filter	12 Oct , 11:00-11:40 (40 Minute)	2880	113273	42.51	61.80	-	-
						SMS-3						
SMS – 3 (Seconda	•	Liquid Steel	-	-	-	17 Oct, 11:30-12:05 (35 Minute)		-	39.34	-	-	-
A.						Stac	k emission					
Name of Plant	f the	Stack connected to (Name		Diameter of the stack (m)	Pollution Control unit provided	Date & Time of the monitoring (duration)	Production fig. of the unit, during	of the flu				

(1)	of the unit) (2)	(m) (3)	(4)	(Name) (5)	(6)	the period of monitoring (7)		(8)	Particulate matter(PM) Norm:50mg Nm3)	SO₂ (Norm: 800mg/Nm3)	NO _x (Norm: 500mg/ Nm3)	CO (Norm: 3 kg/T of Coke
	T	T			Coke Oven					Т		Т
Battery No. 1	Battery	100	3.5	Nil	09 Oct, 10:25-11:25 (60 Minute)	815	12	22912	46.58	228.56	96.20	2.38Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	09 Oct, 11:40-12:40 (60 Minute)	849	11	2556	45.91	211.00	86.56	2.43Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	10 Oct, 10:00-11:00 (60 Minute)	815	12	20977	43.00	186.00	231.50	2.42Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	11 Oct, 10:15-11:15 (60 Minute)	815	11	7286	41.68	197.40	217.60	2.41Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	11 Oct, 11:30-12:30 (60 Minute)	815	11	4428	42.09	187.30	212.40	2.53Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	16 Oct, 10:30-11:40 (70 Minute)	1448	18	34439	45.18	442.70	114.60	2.54Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	16 Oct, 11:55-12:55 (60 Minute)	1448	22	25748	48.93	337.90	182.30	2.44Kg/T coke
Battery No. 12	1 Battery	120	4.2	Nil	10 Oct, 11:20-12:20 (60 Minute)	1729	18	33302	38.58	262.50	168.30	2.47Kg/T coke
Α.				•	Stack em	ission						
Name of	Stack	Height	Diameter	Pollution	Date & Time of the	Production fi		Flow	Parameters	(whicheve	er are app	licable)(9)
the Plant (1)	connected to (Name of the unit) (2)	of the stack (m) (3)	of the stack (m) (4)	Control unit provided (Name) (5)	monitoring(duration) (6)	the unit, duri the period of monitoring (7)		rate of the flue gas (8)	Particulate matter(PM) (Norm:50mg/Nn	SO ₂ (Norm: mg/Nm	600 (No	O _x orm: ng/Nm 3)
					SP-2	•					•	•
SP-2 (M/c-1)	Sintering Machine	100	6	ESP	03 Oct, 10:40-11:20 (40	Minute)	2080	222883	43.53	93.5	-	-
SP-2 (M/c-2)	Sintering Machine	100	6	ESP	03 Oct, 11:30-12:05 (35	Minute)	2080	239651	44.70	69.5	-	-
SP-2 (M/c-3)	Sintering Machine	100	6	ESP	02 Oct, 11:25-12:00 (35	Minute)	2086	230303	45.44	71.0	0 -	-

	Sintering										\neg
SP-2 (M/c-4)	Machine	100	6	ESP	02 Oct, 10:30-11:10 (40 Minute)	2086	235944	42.44	82.50	-	-
		ļ			SP-3	1			1		
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	04 Oct, 12:20-01:05 (45 Minute)	7810	449454	45.83	181.64	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	05 Oct, 11:30-12:10 (40 Minute)	2250	481207	46.98	66.52	-	-
SP-3, M/c- 1(Space dedusting)	Sintering Machine				30 Oct, 12:00-12:40 (40 Minute)	-	-	48.6	-		
SP-3, M/c-2 (Space de- dusting)	Sintering Machine				30 Oct, 11:00-11:40 (40 Minute)	-	-	48.34	-		
					RMP-2						
RK	Rotary Kiln	60	2	Wet Scrubber	18 Oct, 10:30-11:15 (45 Minute)	144	60085	34.79	46.00		
					TPP/CPP				I	l	
Boiler 1	Boiler	80	4.3	ESP	13 Oct, 10:30-11:15 (45 Minute)	2406	112688	45.69	65.00	99.50	-
Boiler 2	Boiler	80	4.3	ESP	13 Oct, 11:30-12:15 (40 Minute)	2531	115376.3	41.46	90.4	122.4	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	07 Oct, 11:40-12:20 (40 Minute)	1976	82895	38.50	81.70	98.40	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	07 Oct, 11:45-12:30 (45 Minute)	2055	82629	36.86	91.60	103.70	-
Boiler 5	Boiler	80	4.3	ESP	06 Oct, 12:30-01:15 (45 Minute)	2285	119230	37.04	74.00	138.00	
Boiler 6	Boiler	80	4.3	ESP	06 Oct, 11:30-12:15 (45 Minute)	1789	313351	35.13	83.90	142.60	
					3.600						
5 11611	DHE	70	4.0		Mills	1				1	
Wire Rod Mill	RHF	70	4.2	-	17 Oct, 12:30-01:30 (60 Minute)	-	-	24.28	-	-	-
Merchant mill	RHF	100 100	4.2	-	18 Oct, 12:00-01:00 (60 Minute)	-	-	18.16	-	-	
Rail Mill Plate Mill	RHF RHF-J1	100	5.0	-	23 Oct, 11:45-12:50 (65 Minute) 24 Oct, 11:20-12:20 (60 Minute)	-	-	22.32 22.80	-	-	-
Plate Mill	RHF-J1	100	5.0	-	24 Oct, 11:20-12:20 (60 Minute)		_	21.97			
BRM	RHF	70	5.3	-	20 Oct, 11:40-12:40 (60 Minute)	_	-	21.33	_	_	
URM	RHF	-	-	-	20 Oct, 10:20-11:20 (60 Minute)	-	-	20.59	_	-	
0.111.1				I	======================================	1	I	20.07	ı		

October 2023 to March 2024

Month-November 2023

A.						Stack	emission					
Name of the Plant	Sta conn d t	ecte	Height of the stack (m)	Diameter of the stack (m)	Pollution Control unit provided	the monitoring (duration)	Production fig. of the unit, during the	Flow rate of the flue gas	Parameters (whichever a	are applica	-	
(1)	(Nan the u (2	-	(3)	(4)	(Name) (5)	101	period of monitoring (7)	(8)	Particulate matter(PM) (Norm:50mg/ Nm3)	SO ₂ (250mg/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
						Blast Furna	ıce					
BF-1 (Proce	ess) S	toves	60	2.5	GCP (Scrubber)	06 Nov,10:30-11:30 (60 Minute)	1275	61771	24.89	219.34	84.30	0.51% V/V
BF-4 (Proce	ess) S	toves	60	2.5	do	06 Nov,11:35-12:40 (65 Minute)	1907	120232	19.30	146.72	98.23	0.44% V/V
BF-5 (Proce	ess) S	toves	60	3.5	do	22 Nov,12:15-01:15 (60 Minute)	1958	128424	21.80	242.86	35.72	0.46% V/V
BF-7 (Proce	ess) S	toves	70	3.5	do	10 Nov, 12:10-01:15 (65 Minute)	3424	101777	22.10	79.32	53.18	0.54% V/V
BF-8 (Proce	ess) S	toves	70	3.5	do	18 Nov, 12:00-01:00 (60 Minute)	7210	165918	22.13	180.00	86.48	0.50% V/V
BF-5 (Space dedusting)					Bag filter	22 Nov, 11:10-11:55 (60 Minute)	-	-	48.26			
BF-8 (Space dedusting)	е				ESP	10 Nov, 10:10-11:15 (65 Minute)	-	-	43.08			
						SMS-2						
LF-1 I	Ladle Fu	ırnace	60	1.65	Bag Filter	04 Nov , 11:40- 12:20 (40 Minute)	2880	112188	48.93	56.20	-	-
LF-2	Ladle Fu	ırnace	50	1.5	Bag Filter	04 Nov , 10:30- 11:15 (45 Minute)	1800	113133	32.37	62.80	-	-
						SMS-3						
SMS – 3 (D (Secondary		Liquid Steel	-	-	-	27 Nov, 11:00-11:35 (35 Minute)	-	-	36.15	-	-	-

A.					Stack er	nission						
Name of the Plant	Stack connected to (Name	Height of the stack	Diameter of the stack (m)	Pollution Control unit provided	Date & Time of the monitoring (duration)	Production fig. of the unit, during	Flow of the gas		Parameters (whichever ar	re applical	,	
(1)	of the unit) (2)	(m) (3)	(4)	(Name) (5)	(6)	the period of monitoring (7)	(8)	Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (Norm: 800mg/ Nm3)	NO _x (Norm: 500mg/ Nm3)	CO (Norm: 3 kg/T of Coke
					Coke Oven	•						
Battery No. 1	Battery	100	3.5	Nil	20 Nov, 11:15-12:15 (60 Minute)	592	1160	006	33.18	479.40	139.10	2.29Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	20 Nov, 12:25-01:35 (70 Minute)	592	1126	517	35.07	102.18	124.08	2.31Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	07 Nov, 10:50-11:55 (65 Minute)	905	1140)30	43.39	615.70	242.52	2.38Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	13 Nov, 12:00-01:00 (60 Minute)	581	1175	598	43.27	309.10	129.70	2.43Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	13 Nov, 10:45-11:45 (60 Minute)	581	1143	359	42.95	235.80	135.30	2.48Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	15 Nov, 10:35-11:35 (60 Minute)	844	2243	361	44.26	416.50	121.20	2.52Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	15 Nov, 11:45-12:45 (60 Minute)	844	2400)48	46.00	326.10	178.60	2.46Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	07 Nov, 12:10-01:10 (60 Minute)	1809	1779	916	42.58	337.93	251.92	2.41Kg/T coke
A.					Stack em							
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 the unit, during the period of monitoring(7)	ng r	low ate of he flue as(8)	Parameters Particulate matter(PM) (Norm:50mg/Nn	SO ₂	600 (No 600m	icable)(9) O _x rm: g/Nm)
					SP-2							
SP-2 (M/c-1)	Sintering	100	6	ESP	11 Nov, 11:00-11:40 (40	Minute)	1910	210511	44.75	64.4	.0 -	-

	Machine										
SP-2 (M/c-2)	Sintering Machine	100	6	ESP	11 Nov, 11:50-12:25 (35 Minute)	1910	251239	47.44	94.30	-	-
SP-2 (M/c-3)	Sintering Machine	100	6	ESP	16 Nov, 11:20-11:55 (35 Minute)	1534	243194	44.00	88.25	-	-
SP-2 (M/c-4)	Sintering Machine	100	6	ESP	16 Nov, 10:30-11:10 (40 Minute)	1534	224289	44.17	90.40	-	-
					SP-3						
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	08 Nov, 10:30-11:15 (45 Minute)	8510	454107	45.56	170.50	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	09 Nov, 12:15-12:55 (40 Minute)	6855	486270	45.28	64.80	-	-
SP-3, M/c- 1(Space dedusting)	Sintering Machine				27 Nov, 01:15-02:00 (45 Minute)	-	-	49.10	-		
SP-3, M/c-2 (Space de- dusting)	Sintering Machine				29 Nov, 01:35-02:15 (40 Minute)	-	-	46.86	-		
					RMP-2						
RK	Rotary Kiln	60	2	Wet Scrubber	22 Nov, 09:15-10:00 (45 Minute)	157	62514	43.27	69.11		
					TPP/CPP						
Boiler 1	Boiler	80	4.3	ESP	01 Nov, 10:30-11:15 (45 Minute)	2110	111546	42.65	61.50	89.85	-
Boiler 2	Boiler	80	4.3	ESP	01 Nov, 11:25-12:05 (40 Minute)	2384	115657	45.41	84.2	121	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	02 Nov, 10:40-11:25 (45 Minute)	1865	82611	43.34	86.50	94.25	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	02 Nov, 10:35-12:25 (50 Minute)	2250	78292	38.99	64.50	85.20	-
Boiler 5	Boiler	80	4.3	ESP	21 Nov, 11:30-12:10 (40 Minute)	2431	119586	34.85	70.20	140.00	
					Mills						
Wire Rod Mill	RHF	-	-	-	24 Nov, 12:00-01:00 (60 Minute)	-	-	20.64	-	-	_
Merchant mill	RHF	-	-	-	29 Nov, 11:15-12:15 (60 Minute)	-	-	19.46	-	-	-
Rail Mill	RHF	-	-	-	23 Nov, 12:00-01:00 (60 Minute)	-	-	20.15	-	-	-
Plate Mill	RHF-J1	-	-	-	30 Nov, 11:00-12:00 (60 Minute)	-	-	19.65	-	-	-

Plate Mill	RHF-J2	-	-	-	10 Nov, 10:30-11:40 (70 Minute)	-	-	18.99	-	-	-
BRM	RHF	-	-	-	17 Nov, 11:50-12:50 (60 Minute)	-	-	19.25	-	-	-
URM	RHF	-	-	-	17 Nov, 10:30-11:40 (70 Minute)	-	-	19.97			

October 2023 to March 2024

Month - December 2023

A.						Stack	emission					
Name of the Plant	con	ack necte to	Height of the stack (m)	Diameter of the stack (m)	Pollution Control unit provided	the monitoring (duration)	Production fig. of the unit, during the	Flow rate of the flue gas	Parameters (whichever a	re applica (9)	-	
(1)	the	me of unit) (2)	(3)	(4)	(Name) (5)		period of monitoring (7)	(8)	Particulate matter(PM) (Norm:50mg/ Nm3)	SO ₂ (250mg/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
						Blast Furna	ce					
BF-1 (Process)		Stoves	60	2.5	GCP (Scrubber)	20 Dec,12:30-01:30 (60 Minute)	1717	63482	20.42	149.58	106.30	0.49% V/V
BF-4 (Process)		Stoves	60	2.5	do	13 Dec,12:15-01:15 (60 Minute)	2416	119735	20.37	99.56	102.36	0.46% V/V
BF-5 (Process)		Stoves	60	3.5	do	13 Dec,01:30-02:30 (60 Minute)	2185	121720	21.50	120.52	121.45	0.51% V/V
BF-7 (Process)		Stoves	70	3.5	do	10 Nov, 12:10-01:15 (65 Minute)	3534	105561	20.36	82.32	55.19	0.50% V/V
BF-8) (Process)		Stoves	70	3.5	do	18 Nov, 12:00-01:00 (60 Minute)	6509	175829	19.23	131.44	88.36	0.53% V/V
BF-7 (Space dedusting)	e				GCP (Scrubber)	16 Dec, 11:00-11:40 (40 Minute)	-	-	49.23			
						SMS-2						
LF-1	Ladle I	Furnace	60	1.65	Bag Filter	06 Dec , 11:45-12:2! (40 Minute)	720	113548	49.39	38.90	-	-
LF-2	Ladle I	Furnace	50	1.5	Bag Filter	06 Dec , 10:50-11:30 (40 Minute)	720	114425	38.60	56.20	-	-
						SMS-3						
SMS – 3 (D (Secondary		Liquid Steel	-	-	-	28 Dec, 11:00-11:35 (35 Minute)	-	-	33.98	-	-	-
Α.						Stac	k emission					

Name of the Plant	Stack connected to (Name	Height of the stack	Diameter of the stack (m)	Pollution Control unit provided	Date & Time of the monitoring (duration)	Production fig. of the unit, during	of t	he flue	Parameters (whichever ar	re applica (9)			
(1)	of the unit) (2)	(m) (3)	(4)	(Name) (5)	(6)	the period of monitoring (7)	ľ	(8)	Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (Norm: 800mg/ Nm3)	NO _x (Norm: 500mg/ Nm3)	CO (Norm: 3 kg/T of Coke	
					Coke Oven								
Battery No. 1	Battery	100	3.5	Nil	11 Dec, 10:20-11:20 (60 Minute)	759	12	21227	38.67	521.40	101.52	2.34Kg/T coke	
Battery No. 2	Battery	100	3.5	Nil	11 Dec, 11:30-12:35 (65 Minute)	759	11	18176	42.88	110.04	167.20	2.30Kg/T coke	
Battery No. 3	Battery	100	3.5	Nil	16 Dec, 12:00-01:10 (70 Minute)	882	11	10852	45.89	580.00	230.00	2.35Kg/T coke	
Battery No. 5	Battery	100	3.5	Nil	25 Dec, 11:00-12:00 (60 Minute)	815	11	19093	45.00	298.68	127.84	2.41Kg/T coke	
Battery No. 6	Battery	100	3.5	Nil	25 Dec, 12:10-01:15 (65 Minute)	730	11	18299	43.95	209.60	127.84	2.44Kg/T coke	
Battery No. 9	Battery	100	3.5	Nil	04 Dec, 10:30-11:35 (65 Minute)	1106	22	22066	44.37	227.94	133.84	2.49Kg/T coke	
Battery No. 10	Battery	120	4.2	Nil	04 Dec, 11:45-12:50 (60 Minute)	1106	22	25835	48.11	448.11	144.76	2.50Kg/T coke	
Battery No. 11	Battery	120	4.2	Nil	02 Dec, 10:30-11:30 (60 Minute)	1689	17	75899	41.48	320.05	224.50	2.39Kg/T coke	
Α.					Stack em	nission							
Name of the Plant	Stack connected to (Name	Height of the stack	Diameter of the stack (m)	Pollution Control unit provided (Name)	Date & Time of the monitoring(duration) (6)	Production the unit, durathe period o monitoring	ring	Flow rate of the flue	Particulate matter(PM)	$ter(PM) \qquad SO_2 \qquad NO_x \qquad (Norm: 0)$			
(1)	of the unit) (2)	(m) (3)	(4)	(5)		(7)		gas (8)	(Norm:50mg/Nn	mg/Nn	,2) 6001	mg/Nm 3)	
					SP-2								
SP-2 (M/c-1)	Sintering Machine	100	6	ESP	19 Dec, 10:40-11:15 (35	5 Minute)	1736	255643	44.96	63.8	30		

SP-2 (M/c-2)	Sintering Machine	100	6	ESP	19 Dec, 11:30-12:05 (35 Minute)	1736	250100	41.48	72.50	-	-
SP-2 (M/c-3)	Sintering Machine	100	6	ESP	18 Dec, 11:00-11:40 (40 Minute)	1695	225536	46.53	55.00	-	-
SP-2 (M/c-4)	Sintering Machine	100	6	ESP	18 Dec, 12:00-12:40 (40 Minute)	1695	234732	47.44	48.90	-	-
					SP-3						
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	09 Dec, 10:45-11:30 (45 Minute)	6468	538768	46.21	126.10	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	08 Dec, 10:30-11:15 (45 Minute)	8009	494327	49.25	61.82	-	-
					RMP-2						
RK	Rotary Kiln	60	2	Wet Scrubber	13 Dec, 11:20-12:00 (40 Minute)	144	65517	41.75	48.3		
					TPP/CPP						
Boiler 1	Boiler	80	4.3	ESP	12 Dec, 10:30-11:15 (45 Minute)	2090	120852	41.76	17.86	69.56	-
Boiler 2	Boiler	80	4.3	ESP	12 Dec, 11:30-12:15 (45 Minute)	2575	115701	48.24	26.23	65.44	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	15 Dec, 10:00-10:45 (45 Minute)	1752	85097	38.09	39.10	68.15	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	05 Dec, 11:35-12:20 (45 Minute)	425	87005	47.67	60.82	78.25	-
Boiler 5	Boiler	80	4.3	ESP	15 Dec, 12:50-01:35 (45 Minute)	2422	118263	48.36	45.40	86.40	
Boiler 6	Boiler	80	4.3	ESP	15 Dec, 11:55-12:40 (45 Minute)	1631	315372	43.46	47.11	75.20	
				1	Mills				1	1	
Wire Rod Mill	RHF	-	-	-	27 Dec, 10:00-11:00 (60 Minute)	-	-	20.08	-	-	-
Merchant mill	RHF	-	-	-	22 Dec, 12:00-01:05 (65 Minute)	-	-	20.48	-	-	-
Rail Mill	RHF	-	-	-	27 Dec, 11:30-12:30 (60 Minute)	-	-	20.34	-	-	-
Plate Mill	RHF-J1	-	-	-	07 Dec, 10:40-11:40 (60 Minute)	-	-	17.91	-	-	-
Plate Mill	RHF-J2	-	-	-	07 Dec, 12:00-01:05 (65 Minute)	-	-	15.07	-	-	-
BRM	RHF	-	-	-	22 Dec, 10:30-11:30 (60 Minute)	-	-	19.06	-	-	-
URM	RHF	-	-	-	20 Dec, 10:40-11:50 (70 Minute)	-	-	17.80			

October 2023 to March 2024

Month-January 2024

A.						Stack	emission					
Name of the Plan		Stack onnecte d to	Height of the stack (m)	Diameter of the stack (m)	Pollution Control unit provided	Date & Time of the monitoring (duration)	Production fig. of the unit, during the	Flow rate of the flue gas	Parameters (whichever a	re applica (9)	-	
(1)	•	Name of ne unit) (2)	(3)	(4)	(Name) (5)	(6)	period of monitoring (7)	(8)	Particulate matter(PM) (Norm:50mg/ Nm3)	SO ₂ (250mg/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
				1	1	Blast Furna	ice			1	, ,	
BF-1 (Process))	Stoves	60	2.5	GCP (Scrubber)	08 Jan,10:30-11:30 (60 Minute)	1600	63616	21.80	136.54	103.62	0.53% V/V
BF-4 (Process)	Stoves	60	2.5	do	12 Jan, 11:50-12:50 (60 Minute)	2298	125625	21.04	93.56	97.78	0.47% V/V
BF-5 (Process)	Stoves	60	3.5	do	12 Jan, 10:30-11:30 (60 Minute)	2360	132828	19.95	110.23	120.51	0.50% V/V
BF-7 (Process)	Stoves	70	3.5	do	23 Jan, 10:20-11:20 (65 Minute)	3809	116809	20.10	76.36	48.88	0.55% V/V
BF-8) (Process)	Stoves	70	3.5	do	13 Jan, 12:15-01:15 (60 Minute)	7317	186673	20.34	121.14	92.12	0.57% V/V
BF-7 (Spa					GCP (Scrubber)	24 Jan, 10:55-11:35 (40 Minute)	-	-	49.10			·
						SMS-2						
LF-1	Ladl	e Furnace	60	1.65	Bag Filter	06 Jan, 11:20-12:00 (40 Minute)	1920	115185	48.26	94.32	-	-
LF-2	Ladl	e Furnace	50	1.5	Bag Filter	06 Jan, 10:15-10:55 (40 Minute)	3420	80847	32.98	47.16	-	-
			•			SMS-3						
SMS – 3 ((Seconda		Liquid Steel	-	-	-	16 Jan, 11:00-11:35 (35 Minute)	-	-	41.25	-	-	-
A.						Stac	k emission					

Name of the Plant	Stack connected to (Name	Height of the stack	Diameter of the stack (m)	Pollution Control unit provided	Date & Time of the monitoring (duration)	Production fig. of the unit, during	of the flue gas	Parameters (whichever an	re applical	ble)	
(1)	of the unit) (2)	(m) (3)	(4)	(Name) (5)	(6)	the period of monitoring (7)	(8)	Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (Norm: 800mg/ Nm3)	NO _x (Norm: 500mg/ Nm3)	CO (Norm: 3 kg/T of Coke
		•			Coke Oven	•	_		,	, <u>'</u>	
Battery No. 1	Battery	100	3.5	Nil	05 Jan, 12:15-01:15 (60 Minute)	849	128134	40.08	540.12	167.32	2.37Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	05 Jan, 11:00-12:05 (65 Minute)	860	118611	41.25	70.74	212.44	2.34Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	10 Jan, 10:45-11:50 (65 Minute)	894	118127	44.11	212.22	210.56	2.40Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	17 Jan, 10:40-11:40 (60 Minute)	815	117666	45.00	298.68	127.84	2.45Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	17 Jan, 12:00-01:00 (60 Minute)	838	122601	43.95	209.60	127.84	2.43Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	20 Jan, 11:45-12:50 (65 Minute)	1468	241209	44.37	227.94	133.84	2.53Kg/T coke
Battery No. 10	Battery	120	4.2	Nil	20 Jan, 10:30-11:30 (60 Minute)	1548	243297	48.11	448.11	144.76	2.47Kg/T coke
Battery No. 11	,	120	4.2	Nil	01 Jan, 02:30-03:35 (60 Minute)	1809	174243	41.48	320.05	224.50	2.41Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorption Tower	29 Jan, 11:15-12:00 (45 Minute)	75	9359	-	2.216 Kg/T H2SO4	-	
Α.		_			Stack en						
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 the unit, durin the period of monitoring (7)		Parameters Particulate matter(PM) (Norm:50mg/Nr	SO ₂	NO (No. 600m)	O _x orm: g/Nm

					SP-2						
SP-2 (M/c-1)	Sintering Machine	100	6	ESP	04 Jan, 10:40-11:15 (35 Minute)	2535	248726	44.40	69.50	-	-
SP-2 (M/c-2)	Sintering Machine	100	6	ESP	04 Jan, 11:30-12:05 (35 Minute)	2535	252986	45.68	68.60	-	-
SP-2 (M/c-3)	Sintering Machine	100	6	ESP	09 Jan, 10:45-11:25 (40 Minute)	2221	228004	41.86	64.50	-	-
SP-2 (M/c-4)	Sintering Machine	100	6	ESP	09 Jan, 11:40-12:20 (40 Minute)	2221	210825	46.57	58.90	-	-
					SP-3						
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	03 Jan, 11:30-12:15 (45 Minute)	8863	444124	46.51	262.00	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	02 Jan, 12:00-12:45 (45 Minute)	9230	442780	47.76	99.76	-	-
SP-3, M/c-1 (Space dedusting)	Sintering Machine				18 Jan, 12:00-12:40 (40 Minute)	-	-	48.23	-		
SP-3, M/c-2 (Space de- dusting)	Sintering Machine				18 Jan, 11:00-11:40 (40 Minute)	-	-	48.59	-		
					RMP-2						
RK	Rotary Kiln	60	2	Wet Scrubber	10 Jan, 12:00-12:40 (40 Minute)	146	64522	43.49	13.1		
				•	TPP/CPP						
Boiler 1	Boiler	80	4.3	ESP	19 Jan, 10:30-11:15 (45 Minute)	2356	121180	37.74	20.96	75.20	-
Boiler 2	Boiler	80	4.3	ESP	15 Jan, 11:05-11:50 (45 Minute)	2579	117094	45.11	20.96	144.76	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	11 Jan, 10:10-10:50 (40 Minute)	1933	84494	44.45	64.58	74.82	_
Boiler 5	Boiler	80	4.3	ESP	11 Jan, 11:00-11:45 (45 Minute)	2290	120652	47.71	52.60	68.30	
Boiler 6	Boiler	80	4.3	ESP	15 Jan, 12:00-12:45 (45 Minute)	1694	319478	44.07	40.00	72.00	
					Mills						
Wire Rod Mill	RHF	-	-	-	26 Jan, 10:30-11:40 (70 Minute)	-	-	21.28	-	-	-
Merchant mill	RHF	-	-	-	22 Jan, 11:00-12:05 (65 Minute)	-	-	23.10	-	-	-

Rail Mill	RHF	-	-	-	25 Jan, 11:05-12:05 (60 Minute)	-	-	20.94	-	-	-
Plate Mill	RHF-J2	-	-	-	08 Jan, 11:50-12:55 (65 Minute)	-	-	17.60	-	-	-
BRM	RHF	-	-	-	22 Jan, 12:25-01:25 (60 Minute)	-	-	20.46	-	-	-
URM	RHF	-	-	-	19 Jan, 11:35-12:40 (65 Minute)	-	-	19.45			

October 2023 to March 2024

Month-February'24

A.						Stack	emission					
Name of the Pla	_	Stack onnecte d to	Height of the stack (m)	Diameter of the stack (m)	Pollution Control unit provided	the monitoring (duration)	Production fig. of the unit, during the	Flow rate of the flue gas	Parameters (whichever a	re applica	,	
(1)		Name of ne unit) (2)	(3)	(4)	(Name) (5)	101	period of monitoring (7)	(8)	Particulate matter(PM) (Norm:50mg/ Nm3)	SO ₂ (250mg/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)
						Blast Furna	ice					
BF-1 (Proces	s)	Stoves	60	2.5	GCP (Scrubber)	06 Feb 11:00-12:00 (60 Minute)		64503	18.39	73.36	58.25	0.58% V/V
BF-4 (Proces		Stoves	60	2.5	do	06 Feb 12:30-01:30 (60 Minute)	2430	138121	20.17	94.32	56.32	0.49% V/V
BF-5 (Proces	s)	Stoves	60	3.5	do	13 Feb 12:30-01:30 (60 Minute)	2704	136849	22.06	99.80	60.12	0.54% V/V
BF-7 (Proces	s)	Stoves	70	3.5	do	14 Feb 10:50-11:50 (60 Minute)	3260	114892	21.79	89.08	54.52	0.61% V/V
BF-8) (Proces	s)	Stoves	70	3.5	do	16 Feb 10:20-11:15 (55 Minute)	8328	186691	19.68	86.30	72.65	0.64% V/V
					T-	SMS-2			1			
LF-1	Ladl	e Furnace	60	1.65	Bag Filter	08 Feb, 11:30-12:15 (45 Minute)	2160	116886	48.23	73.00	-	-
LF-2	Ladl	e Furnace	50	1.5	Bag Filter	08 Feb, 12:00-12:40 (40 Minute)	2040	112634	40.02	46.70	-	-
						SMS-3						
SMS – 3 (Second	•	Liquid Steel	-	-	-	13 Feb, 11:30-12:10 (40 Minute)	-	-	32.79	-	-	-
A.						Stack	k emission					
Name o Plant	f the	Stack connecte to (Name		Diameter of the stack (m)	Pollution Control unit provided	Date & Time of the monitoring (duration)	Production fig. of the unit, during	of the flu		r are applic	cable) 9)	

(1)	of the unit) (2)	(m) (3)	(4)	(Name) (5)	(6)	the period of monitoring (7)		(8)	Particulate matter(PM) (Norm:50mg /Nm3)	SO ₂ (Norm: 800mg/Nm3)	NO _x (Norm: 500mg/ Nm3)	CO (Norm: 3 kg/T of Coke
	1	L			Coke Oven		ı	L	·	, ,	/	
Battery No. 1	Battery	100	3.5	Nil	09 Feb, 11:30-12:30 (60 Minute)	804	14	10462	40.84	489.94	167.32	2.42Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	09 Feb, 10:15-11:20 (65 Minute)	871	13	17224	42.60	568.50	212.44	2.38Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	09 Feb, 12:50-01:50 (60 Minute)	938	12	22191	43.79	647.14	210.56	2.49Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	15 Feb, 10:30-11:30 (60 Minute)	793	12	23688	40.69	193.40	127.84	2.51Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	15 Feb, 11:45-12:45 (60 Minute)	793	12	22321	43.24	277.72	127.84	2.44Kg/T coke
Battery No. 9	No. 9 Battery 100 3.5 Nil		Nil	21 Feb, 10:40-11:40 (60 Minute)	1548	23	32267	43.36	280.00	133.84	2.65Kg/T coke	
Battery No. 10	Battery	120	4.2	Nil	21 Feb, 11:55-12:55 (60 Minute)	1608	24	11070	44.75	631.42	144.76	2.40Kg/T coke
Battery No. 11	Battery	120	4.2	Nil	05 Feb, 10:55-12:00 (65 Minute)	1769	17	74948	44.02	141.48	224.50	2.52Kg/T coke
DCDA Acid Plant	DCDA Acid Plant	40	0.8	Absorption Tower	02 Feb, 10:15-11:15 (60 Minute)	80	Ġ	9315	-	1.820 Kg/T H2SO4	-	
Α.	•			•	Stack em	ission						
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 rate of		rate of the flue gas	Parameters Particulate matter(PM) (Norm:50mg/Nn	SO ₂	600 (No 600n	licable)(9) O _x orm: gg/Nm S)
					SP-2			_				
SP-2 (M/c-1)	Sintering Machine	100	6	ESP	01 Feb, 11:20-11:55 (35 N	/linute)	2562	248036	48.82	66.9	0 -	-

SP-2 (M/c-2)	Sintering Machine	100	6	ESP	01 Feb, 12:10-12:45 (35 Minute)	2562	262364	47.64	59.90	-	-
SP-2 (M/c-3)	Sintering Machine	100	6	ESP	19 Feb, 10:40-11:15 (35 Minute)	2157	248501	43.37	66.35	-	-
SP-2 (M/c-4)	Sintering Machine	100	6	ESP	19 Feb, 11:30-12:10 (35 Minute)	2157	256837	44.22	60.25	-	-
					SP-3						•
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	12 Feb, 11:10-11:55 (45 Minute)	9039	452197	47.63	94.32	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	20 Feb, 10:30-11:15 (45 Minute)	10470	483673	47.19	84.32	-	-
					RMP-2						
LK-1			1.2	Wet Scrubber	02 Feb, 11:30-12:10 (40 Minute)	90	49132	41.68	62.50		
RK	Rotary Kiln	60	2	Wet Scrubber	05 Feb, 12:15-01:00 (40 Minute)	144	60677	39.76	15.72		
	•				TPP/CPP	1					
Boiler 1	Boiler	80	4.3	ESP	22 Feb, 10:20-11:05 (45 Minute)	1965	114839	40.90	39.24	90.24	-
Boiler 2	Boiler	80	4.3	ESP	22 Feb, 12:30-01:15 (45 Minute)	2196	116304	41.32	31.44	141	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	10 Feb, 11:00-11:40 (40 Minute)	1815	84654	47.32	77.82	86.3	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	22 Feb, 11:30-12:15 (45 Minute)	1799	83273	43.50	67.20	58.92	
Boiler 5	Boiler	80	4.3	ESP	17 Feb, 10:30-11:10 (40 Minute)	2102	119329	47.66	56.94	68.84	
Boiler 6	Boiler	80	4.3	ESP	17 Feb, 11:30-12:15 (40 Minute)	1778	320532	49.04	52.60	78.96	
					Mills			T			
Wire Rod Mill	RHF	-	-	-	16 Feb, 12:45-01:45 (60 Minute)	-	-	20.02	-	-	-
Merchant mill	RHF	-	-	-	14 Feb, 12:15-01:20 (65 Minute)	-	-	20.40	-	-	-
Rail Mill	RHF	-	-	-	23 Feb, 11:30-12:40 (65 Minute)	-	-	21.40	-	-	-
Plate Mill	RHF-J1	-	-	-	29 Feb, 11:00-12:10 (70 Minute)	-	-	18.75	-	-	-
Plate Mill	RHF-J2	-	-	-	24 Feb, 10:50-12:00 (70 Minute)	-	-	19.72	-	-	-
BRM	RHF	-	-	-	16 Feb, 11:30-12:30 (60 Minute)	-	-	21.47			
URM	RHF	-	-	-	28 Feb, 11:00-12:05 (65 Minute)	-	-	21.39			

October 2023 to March 2024

Month-March'24

A.					Stack	emission						
Name of the Plant	Stack connecte d to	Height of the stack (m)	Diameter of the stack (m)	Pollution Control unit provided	the monitoring (duration)	Production fig. of the unit, during the	Flow rate of the flue gas	Parameters (whichever a	are applica (9)	-		
` '	(Name of the unit) (2)	(3)	(4)	(Name) (5)	1631	period of monitoring (7)	(8)	Particulate matter(PM) (Norm:50mg/ Nm3)	SO ₂ (250mg/N m3)	NO _x (150mg/N m3)	CO (Norm: 1%)	
					Blast Furna	ice						
BF-1 (Process)	Stoves	60	2.5	GCP (Scrubber)	22 Mar 10:10-11:10 (60 Minute)		64484	18.72	75.23	50.76	0.52% V/V	
BF-4 (Process)	Stoves	60	2.5	do	05 Mar 10:30-11:30 (60 Minute)	2795	125465	18.99	110.04	58.56	0.46% V/V	
BF-5 (Process)	Stoves	60	3.5	do	05 Mar 11:50-12:50 (60 Minute)	2691	129332	18.71	99.56	62.85	0.60% V/V	
BF-7 (Process)	Stoves	70	3.5	do	21 Mar 09:55-11:00 (65 Minute)	1541	115707	18.46	73.36	41.36	0.48% V/V	
BF-8) (Process)	Stoves	70	3.5	do	16 Mar 11:20-12:10 (50 Minute)	8232	195989	17.02	150.06	65.80	0.57% V/V	
BF-5 (Space dedusting)				Bag filter	21 Mar 11:15-12:00 (45 Minute)	-	-	44.91	-	-		
BF-7 (Space dedusting)				GCP (Scrubber)	22 Mar 11:30-12:15 (45 Minute)	-	-	46.15	-	-		
	SMS-3											
SMS – 3 (DDS (Secondary)	Y Liquid Steel	-	-	-	20 Mar, 11:00-11:35 (35 Minute)	-	-	41.63	-	-	-	
Α.						k emission						
Name of the Plant	Stack connecte to (Name		Diameter of the stack (m)	Pollution Control unit provided	Date & Time of the monitoring (duration)	Production fig. of the unit, during	the flue					

(1)	of the unit) (2)	(m) (3)	(4)	(Name) (5)	(6)	the period of monitoring (7)		(8)	Particulate matter(PM) (Norm:50 mg/Nm3)	SO₂ (Norm: 800mg/Nm3)	NO _x (Norm: 500mg/ Nm3)	CO (Norm: 3 kg/T of Coke
		, ,			Coke Oven	1					1	•
Battery No. 1	Battery	100	3.5	Nil	01 Mar, 10:40-11:40 (60 Minute)	838	12	29534	42.20	615.70	184.61	2.49Kg/T coke
Battery No. 2	Battery	100	3.5	Nil	01 Mar, 11:50-12:50 (60 Minute)	894	12	24445	45.11	256.76	216.76	2.36Kg/T coke
Battery No. 3	Battery	100	3.5	Nil	13 Mar, 12:30-01:30 (60 Minute)	938	12	20141	46.31	610.46	162.62	2.45Kg/T coke
Battery No. 5	Battery	100	3.5	Nil	14 Mar, 11:05-12:05 (60 Minute)	815	12	21671	39.89	374.66	284.25	2.58Kg/T coke
Battery No. 6	Battery	100	3.5	Nil	14 Mar, 12:15-01:15 (60 Minute)	815	12	25409	44.17	296.06	369.13	2.52Kg/T coke
Battery No. 9	Battery	100	3.5	Nil	25 Mar, 08:10-09:10 (60 Minute)	1487	24	13658	44.22	582.23	101.52	2.63Kg/T coke
Battery No. 10) Battery	120	4.2	Nil	25 Mar, 09:20-10:20 (60 Minute)	1487	24	1129	43.90	626.18	272.60	2.48Kg/T coke
Battery No. 12	1 Battery	120	4.2	Nil	06 Mar, 11:30-12:35 (60 Minute)	1809	16	59216	41.60	215.68	131.60	2.54Kg/T coke
Α.					Stack em	ission						
Name of	Stack	Height	Diameter	Pollution Control unit	Date & Time of the monitoring(duration)	Production fi the unit, duri	_	Flow	Parameters	(whicheve	er are app	licable)(9)
the Plant (1)	connected to (Name of the unit) (2)	of the stack (m) (3)	of the stack (m) (4)	provided (Name) (5)	(6)	the period of monitoring (7)		rate of the flue gas (8)	Particulate matter(PM) (Norm:50mg/Nn	(Norm: mg/Nm	600 (No	O _x orm: g/Nm c)
					SP-2							
SP-2 (M/c-1)	Sintering Machine	100	6	ESP	12 Mar, 11:50-12:25 (35	Minute)	2006	253037	46.21	49.7	8 -	-
SP-2 (M/c-2)	Sintering Machine	100	6	ESP	12 Mar, 12:35-01:15 (40 Minute)		2006	248085	48.39	47.1	6 -	-
SP-2 (M/c-3)	Sintering Machine	100	6	ESP	04 Mar, 12:05-12:45 (40	Minute)	2084	218954	47.29	47.1	6 -	-

	T T	1	1			1 1			1		
SP-2 (M/c-4)	Sintering Machine	100	6	ESP	04 Mar, 11:15-11:55 (40 Minute)	2084	229929	44.81	83.84	-	-
					SP-3						
SP-3 (M/c-1)	Sintering Machine	120	7	ESP	08 Mar, 10:45-11:30 (45 Minute)	9741	454579	44.29	96.32	-	-
SP-3 (M/c-2)	Sintering Machine	120	7	ESP	15 Mar, 11:25-12:10 (45 Minute)	2661	481367	47.90	82.56	-	-
SP-3, M/c-1 (Space dedusting)	Sintering Machine				15 Mar, 10:30-11:15 (45 Minute)	-	-	48.23			
SP-3, M/c-2 (Space de- dusting)	e- Sintering Machine 13 Mar, 11:30-12:15 (45 Minute)		-	-	49.12						
					RMP-2						
RK	Rotary Kiln	60	2	Wet Scrubber	23 Mar, 10:30-11:15 (45 Minute)	138	62152	38.76	18.54		
		<u>'</u>			TPP/CPP	•	•		<u>'</u>	•	
Boiler 1	Boiler	80	4.3	ESP	19 Mar, 10:30-11:15 (45 Minute)	2100	114396	34.48	62.88	68.25	-
Boiler 2	Boiler	80	4.3	ESP	09 Mar, 10:30-11:15 (45 Minute)	2305	121317	38.66	44.54	78.96	-
Boiler 3	Boiler	80	4.3	Wet Scrubber	19 Mar, 11:30-12:15 (45 Minute)	1795	82200	43.44	83.84	78.96	-
Boiler 4	Boiler	80	4.3	Wet Scrubber	09 Mar, 11:30-12:20 (50 Minute)	2010	83020	47.21	58.50	61.35	
Boiler 5	Boiler	80	4.3	ESP	07 Mar, 11:45-12:30 (45 Minute)	2099	118342	37.64	55.12	24.44	
Boiler 6	Boiler	80	4.3	ESP	07 Mar, 10:20-11:05 (45 Minute)	1763	316856	34.55	49.43	26.32	
					Mills						
TAP D LACIL	RHF	_		_	30 Mar, 10:45-11:55 (60 Minute)	T _	_	18.46			
Wire Rod Mill	RHF	-	-	-	29 Mar, 11:05-12:05 (60 Minute)	-	-		-	-	-
Merchant mill	RHF	-	<u>-</u>	-		-	-	17.52	-	-	_
Rail Mill	RHF-J1			26 Mar, 11:15-12:15 (60 Minute) 11 Mar, 10:35-11:40 (60 Minute)	-	-	18.34 20.30	-	-	-	
Plate Mill Plate Mill	RHF-J1	<u>-</u>	-	-	11 Mar, 11:55-01:00 (65 Minute)	-	-	17.98	-	_	-
BRM	RHF	_	<u>-</u>	<u> </u>	18 Mar, 11:50-12:50 (60 Minute)	-	_	16.81	-	-	_
URM	RHF	-	<u> </u>		18 Mar, 10:35-11:35 (60 Minute)	_	_	18.88			
UVIAI	1/1111			_	10 Mai, 10.33-11.33 (00 Millate)		_	10.00			

FUGITIVE EMISSION STATUS October 2023 to March 2024

FLAG E

E-2

Fugitive Emission

FUGITIVE EMISSION STATUS October 2023 to March 2024

Fugitive Emissions Status Month-October 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)			Paran		(as applica (6)	able)	
					PM ₁₀ μg/m ³ (4000)	SO ₂ μg/m ³ (200)	$NOx_{\mu g/m}^{3}$ (150) (120 for BF-8)	Pb* μg/m ³ (2)	CO (5000)	BaP 2000 ng/m³	Remarks
1	Coke Oven area	In front of Batt2		09 Oct - 11:15	1300	-	-	-	-	1267* (Batt.1)	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-3 & 4)		02 Oct -10:00	1400	-	-	-	-		-
3	Blast Furnace	BFs-6 (Near Weigh Bridge)		30 Oct - 11:00- 03:00	360.6	46.23	51.30	0.06 2*	872	271*	Norms as per GSR 277 (E) dtd 30/03/2012
4	Blast Furnace 8	BFs-8 (Cast House)		21 Oct - 11:00- 03:00	960.5	86.20	120.20	-	1029		Norms as per GSR 277 (E) dtd 30/03/2012
5	Steel Melting Shop-2	SMS # 2, Converter Shop Back side 38 Meter		05 Oct - 11:05- 03:05	935.1 0	51.90	54.00	0.01 4*	938	162*	
6	Steel Melting Shop-3	SMS # 3, In front of converter 2 & 3		17 Oct - 11:00- 03:00	327.8 9	69.80	81.30	-	1194	-	-
7	RMP-3	RMP # 3, Infront of LDDB Building		06 Oct - 10:30- 02:30	1896. 73	-	-	-	-	-	-
8	Thermal Power Plant-1	Near Boiler-5 & 6		06 Oct -10:35	1240	-	-	-	-	-	-
9	Lime dolomite plant- 1	RMP-1 (Entrance)		18 Oct -11:00	1140	-	-	-	-	-	-
10	Lime dolomite plant-2	RMP-2 (Near welfare building)		18 Oct -10:40	1390	-	-	-	-	-	-

FUGITIVE EMISSION STATUS October 2023 to March 2024

Fugitive Emissions Status Month-November 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)			Para		(as appli (6)	cable)	
					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 /m³	Remarks*
1	Coke Oven area	In front of Batt2		07 Nov - 11:00	1330	-	-	-	-	1267* (Batt.1)	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-3 & 4)		11 Nov - 10:45	1480	-	-	-	-		-
3	Blast Furnace	BFs-6 (Near Weigh Bridge)		18 Nov - 10:00- 02:20	1535.74	48.65	52.71	0.062*	913	271*	Norms as per GSR 277 (E) dtd 30/03/2012
4	Blast Furnace 8	BFs-8 (Cast House)		18 Nov - 11:00- 03:35	785.19	74.15	86.40	-	1237		Norms as per GSR 277 (E) dtd 30/03/2012
5	Steel Melting Shop-2	SMS # 2, Converter Shop Back side 38 Meter		04 Nov - 10:00- 02:05	1409.78	54.90	52.98	0.014*	1068	162*	
6	Steel Melting Shop-3	SMS # 3, In front of converter 2 & 3		27 Nov - 12:00- 03:35	2388.55	69.80	77.60	-	1152	-	-
7	RMP-3	RMP # 3, Infront of LDDB Building		25 Nov - 12:00- 03:30	2448.94	-	-1	-	-	-	-
8	Thermal Power Plant-1	Near Boiler-5 & 6		01 Nov - 10:00	1290	-	1	-	1	-	-
9	Lime dolomite plant- 1	RMP-1 (Entrance)		15 Nov - 11:35	1190	-	-	-	-	-	-
10	Lime dolomite plant-2	RMP-2 (Near welfare building)		15 Nov - 10:40	1340	-	-	-	-	-	-

FUGITIVE EMISSION STATUS October 2023 to March 2024

Fugitive Emissions Status Month-December 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)]	Parameter	s (as appl (6)	icable)	
					PM ₁₀	SO_2	NOx	Pb*	СО	BaP**	Remarks*
					μg/m ³ (4000)	μg/m ³ (200)	μg/m ³ (150)	μg/m ³ (2)	(5000)	2000ng/ m ³	
1	Coke Oven area	In front of Batt10		04 Dec - 10:25	1290	-	-	-	-	1267* (Batt.1)	Norms as per GSR 277 (E) dtd 30/03/2012
2	Sinter Plant	SP-II (Near M/c-3 & 4)		18 Dec - 11:15	1380	-	-	-	-		-
3	Blast Furnace	BFs-7, Stock House (Left ground level)		01 Dec - 11:35- 01:35	1150. 90	42.50	58.90	0.062*	862	271*	Norms as per GSR 277 (E) dtd 30/03/2012
4	Blast Furnace 8	BFs-8 (Cast House) Near HYD.valve Stand 2,3		14 Dec - 11:00- 03:30	1944. 48	76.40	88.54	-	1298		Norms as per GSR 277 (E) dtd 30/03/2012
5	Steel Melting Shop-2	SMS # 2, Near LF-2 Chimney (O.H.S.)Centre		18 Dec - 10:45- 03:15	973.5 0	59.60	54.00	0.014*	996	162*	
6	Steel Melting Shop-3	SMS # 3, (DDSY) Near Convertor-2		28 Dec - 11:00- 03:00	390.5 3	63.10	74.92	-	1101	-	-
7	RMP-3	RMP # 3, Near Shiv Mandir ground level		21 Dec - 11:55- 03:20	511.7 8	-	-	-	-	-	-
8	Thermal Power Plant-1	Near Boiler-3 & 4		05 Dec - 11:00	1290	-	-	-	-	-	-
9	Lime dolomite plant- 1	RMP-1 (Entrance)		13 Dec - 11:00	1190	-	-	-	-	-	-
10	Lime dolomite plant-2	RMP-2 (Near welfare building)		13 Dec - 10:40	1400	-	-	-	-	-	-

FUGITIVE EMISSION STATUS October 2023 to March 2024

Fugitive Emissions Status Month-January'24

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	SO ₂ μg/m ³ (NOx μg/m ³ (150)	Pb* μg/m ³ (2)	CO (5000)	BaP** 2000ng/ m ³	Remarks*			
1	Coke Oven area	In front of Batt2		05 Jan - 11:00	1240	200)	-	-	-	1267* (Batt.1)	Norms as per GSR 277 (E) dtd 30/03/2012			
2	Sinter Plant	SP-II (Near M/c-1 & 2)		05 Jan - 10:30	1360	-	-	-	-		-			
3	Blast Furnace	BFs-6, Near Weighing Bridge		12 Jan - 10:30- 03:30	764.38	48.40	59.60	0.062*	941	271*	Norms as per GSR 277 (E) dtd 30/03/2012			
4	Blast Furnace 8	BFs-8 (Stock House) Entry ground level		25 Jan - 10:30- 03:30	2537.32	40.20	50.80	-	1307		Norms as per GSR 277 (E) dtd 30/03/2012			
5	Steel Melting Shop-2	SMS # 2, SLAB Caster-6		11 Jan - 11:30- 04:00	266.28	56.23	51.39	0.014*	1163	162*				
6	Steel Melting Shop-3	SMS # 3, (DDSY) Near Chimney		16 Jan - 10:30- 02:30	682.26	59.76	78.44	-	1271	-	-			
7	RMP-3	RMP # 3,(LDDB) Lime sorting unit ground level		27 Jan - 11:15- 03:15	2593.30	67.90	59.40	-	-	-	-			
8	Thermal Power Plant-1	Near Boiler-2 & 6		15 Jan - 10:40	1310	-	-	-	-	-	-			
9	Lime dolomite plant- 1	RMP-1 (Entrance)		10 Jan - 11:00	1110	-	-	-	-	-	-			
10	Lime dolomite plant-2	RMP-2 (Near welfare building)		10 Jan - 10:15	1030	-	-	-	-	-	-			

FUGITIVE EMISSION STATUS October 2023 to March 2024

Fugitive Emissions Status Month-February'24

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 Batt2		09 Feb - 10:55	1280	,	-	1	-	1267* (Batt.1)	Norms as per GSR 277 (E) dtd 30/03/2012			
2	Sinter Plant	SP-II (Near M/c-1 & 2)		01 Feb - 10:50	1380	-	-	-	1		-			
3	Sinter Plant	SP-II (Near Pump House-1		01 Feb - 11:15- 03:45	1714.7 8	48.40	59.60	0.062*	1053	271*	Norms as per GSR 277 (E) dtd 30/03/2012			
4	Blast Furnace 8	BFs-8 (Cast House) Near Taphole-4		29 Feb - 10:45- 02:45	1417.0 3	60.25	55.24	1	1290		Norms as per GSR 277 (E) dtd 30/03/2012			
5	Steel Melting Shop-2	SMS # 2, Ladle Repair Bay		08 Feb - 11:00- 03:00	1586.8 6	59.30	55.40	0.014*	1344	162*				
6	Steel Melting Shop-3	SMS # 3, Near Ladle Furnace		13 Feb - 12:00- 02:00	2970.9 7	56.28	74.10	-	1167	-	-			
7	RMP-3	RMP # 3,Dumper Loading Area Near Lift		27 Feb - 11:15- 03:30	2197.4	69.00	58.30	-	-	-	-			
8	Thermal Power Plant-1	Near Boiler-3 & 4		10 Feb - 11:00	1290	-	-	-	-	-	-			
9	Lime dolomite plant- 1	RMP-1 (Entrance)		02 Feb - 11:40	1070	-	-	-	-	-	-			
10	Lime dolomite plant-2	RMP-2 (Near welfare building)		02 Feb - 11:00	1480	-	-	-	-	-	-			

FUGITIVE EMISSION STATUS October 2023 to March 2024

Fugitive Emissions Status Month-March'24

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/m³	Remarks*			
1	Coke Oven area	In front of Batt2		01 Mar - 10:50	1360	-	-	-	-	1267* (Batt.1)	Norms as per GSR 277 (E) dtd 30/03/2012			
2	Sinter Plant	SP-II (Near M/c-3)		04 Mar - 10:50	1380	-	-	-	-					
3	URM	Near BD-1 Stand		18 Mar - 11:15- 04:00	740.80									
4	Blast Furnace 8	BFs-8 (Stock House Entry)		19 Mar - 11:00- 02:30	3800	60.25	55.24	-	1016		Norms as per GSR 277 (E) dtd 30/03/2012			
5	BRM	BRM Near Electrical Workshop		26 Mar- 11:00- 03:00	321.82									
6	Steel Melting Shop-3	SMS # 3, M-N Storage Bay		20 Mar- 10:50- 02:50	632.54	56.28	74.10	-	1262	-	-			
7	RMP-3	RMP # 3,LDDB Building		08 Mar - 11:15- 02:15	2426.08	69.00	58.30	-	-	-	-			
8	Thermal Power Plant-1	Near Boiler-5 & 6		07 Mar - 10:30	1320	1	-	-	-	-	-			
9	Lime dolomite plant- 1	RMP-1 (Entrance)		23 Mar - 11:45	1220	1	-	-	-	-	-			
10	Lime dolomite plant-2	RMP-2 (Near welfare building)		23 Mar - 10:50	1500	1	-	-	-	-	-			

FLAG E

E-3

AMBIENT AIR QUALITY

					AMB	IENT A	IR QUA	LITY							
					Mo	onth-O	ctober'2	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*	0_3	Pb*	As*	Ni*	C_6H_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					μg/m	3						ng/m³		
1	Civic Centre			16.03	40.31	14.73	14.97	2.96	213	NT*	26.70	0.025	NT	2.000	1.44
2	OP-2			16.85	25.98	13.35	11.67	3.04	228	NT*	30.84	0.034	NT	2.000	1.29
3	Rail Mill			19.30	28.05	14.68	15.98	2.79	273	NT*	33.20	0.040	NT	4.000	1.11
4	Ispat Bhavan			20.18	26.17	17.43	16.31	2.34	209	NT*	NA**	0.056	NT	3.000	NA**

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

					AMB	IENT A	IR QUA	LITY							
						Mont	th-Nove	mber'	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*	0_3	Pb*	As*	Ni*	C_6H_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					μg/m	3						ng/m³		
1	Civic Centre			20.67	42.66	17.72	18.01	2.82	235	NT*	24.50	0.031	NT	3.000	1.56
2	OP-2			18.92	29.44	14.11	11.49	3.04	247	NT*	28.62	0.029	NT	4.000	1.31
3	Rail Mill			20.25	27.96	16.93	15.24	2.79	282	NT*	30.08	0.043	NT	6.000	1.18
4	Ispat Bhavan			23.44	25.87	19.50	16.26	2.34	211	NT*	31.11**	0.058	NT	2.000	1.21**

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

^{**} In Ispat Bhavan manual monitoring done for Ozone & Benzene, as no analyzers are installed for there parameters.

					AMB	IENT A	IR QUA	LITY							
						Mon	th-Dece	mber'	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*	0_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					μg/m	13							ng/m	3
1	Civic Centre			21.89	42.79	18.28	18.23	2.79	240	NT*	22.84	0.031	NT	3.000	1.52
2	OP-2			20.14	31.07	17.20	11.78	2.86	263	NT*	26.33	0.029	NT	4.000	1.26
3	Rail Mill			21.36	30.63	18.41	18.11	2.62	286	NT*	31.29	0.043	NT	6.000	1.16
4	Ispat Bhavan			23.18	28.94	18.77	17.90	2.27	223	NT*	32.18	0.058	NT	2.000	1.28**

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

^{**} In Ispat Bhavan manual monitoring done for Ozone & Benzene,as no analyzers are installed for there parameters.

					AMB	IENT A	IR QUA	LITY									
						Mor	ıth- Jan	uary'2	4								
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					μg/m	13							ng/m³	3		
1	Civic Centre			23.05	44.32	18.59	19.43	2.53	238	NT*	23.80	0.031	NT	3.000	1.49		
2	OP-2			21.82	34.22	16.97	13.22	2.69	261	NT*	25.95	0.029	NT	4.000	1.21		
3	Rail Mill			24.08	31.20	17.64	19.78	2.44	279	NT*	33.24	0.043	NT	6.000	1.17		
4	Ispat Bhavan			26.93	29.10	19.72	20.18	2.21	234	NT*	29.86	0.058	NT	2.000	1.23**		

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

^{**} In Ispat Bhavan manual monitoring done for Ozone & Benzene, as no analyzers are installed for there parameters..

					AMB	IENT A	IR QUA	LITY									
						Mon	th- Feb	ruary'2	24								
S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring					Paramo	eters (as	applica	ble)						
1	2	3	4		5												
				PM _{2.5}													
		Norms	24 hrs	60	60 100 80 80 400 2000 (8 hrs) - 180 1												
			Annual	40	4000(1												
	Unit					μg/m ³	3							ng/m³			
1	Civic Centre			24.16	45.47	16.94	18.34	2.52	232	NT*	25.63	0.031	NT*	3.000	1.36		
2	OP-2			22.90	36.14	14.27	12.89	2.65	254	NT*	30.16	0.029	NT*	4.000	1.27		
3	Rail Mill			26.53	33.86	16.71	18.83	2.39	274	NT*	37.82	0.043	NT*	6.000	1.20		
4	Ispat Bhavan			28.44	32.93	17.75	20.39	2.19	228	NT*	31.03	0.058	NT*	2.000	1.25		

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

^{**} In Ispat Bhavan manual monitoring done for Ozone & Benzene,as no analyzers are installed for there parameters..

BHILAI STEEL PLANT Oct.2023 to March 2024

				B. AMBIE	NT AIR Q	UALITY	AND FUGI	JTIVE EN	MISSION								
						Moi	nth- Ma	rch'24									
S No.	Location of the Station	Up wind / Down wind	Date & time of the monitoring					Paramo	eters (as	applica	ble)						
1	2	3	4		5												
				$PM_{2.5}$													
		Norms	24 hrs	60	nrs)												
			Annual	40 60 50 40 100 4000(1 hrs) 1 100 0.5 6 20 5													
	Unit					μg/m ³	3							ng/m³			
1	Civic Centre			24.34	46.55	15.54	17.51	2.55	210	NT*	24.11	0.031	NT	3.000	1.32		
2	OP-2			23.48 36.89 13.75 11.94 2.72 268 NT* 27.30 0.029 NT 4.000 1.24											1.24		
3	Rail Mill			28.60	34.97	15.46	18.22	2.37	257	NT*	32.98	0.043	NT	6.000	1.19		
4	Ispat Bhavan			30.13	34.52	17.10	19.41	2.32	219	NT*	30.54	0.058	NT	2.000	1.21		

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

^{**} In Ispat Bhavan manual monitoring done for Ozone & Benzene,as no analyzers are installed for there parameters..

FUGITIVE EMISSION STATUS October 2023 to March 2024

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

FUGITIVE EMISSION STATUS October 2023 to March 2024

Month-October 2023

Date & Time of the sample	Location of the sampling point	Type of treatment provided	Flow rate m3/Hr		Pa	rameters n	nonitored (mg/l, e	xcept pH	H)		Remarks
				pН	TSS	Phenol	Cyanid e	BO D	CO D	Amm. Nitrogen	O & G	
Norms				6.5-8.5	100 (50 for BF)	1	0.2	30	250	50	10	
			<u>CO</u>	BP Effluer	<u>ıt</u>							
11 Oct, 10:25:00 AM	Inlet to BOD plant	Physiochemical & Biological	95	10.52	ı	202	15.05	ı	3080	560.3	9.04	Treated water used for quenching
11 Oct, 10:45:00 AM	Outlet to BOD plant	Physiochemical & Biological	-	6.84	79	0.590	0.19	15	220	34.43	3.85	Treated water used for quenching
07 Oct, 09:55:00 AM	Sinter Plant-2	Settling Tank	1400	8.44	30	-	-	-	-	-	4.88	Recycled back
07 Oct, 09:45:00 AM	Steel Melting Shop-2	Settling Tank	1650	8.38	58	-	-	1	-	-	4.54	Recycled
05 Oct, 10:05:00 AM	Blast Furnace- RST	Settling Tank /Cooling Pond	12500	7.09	46	BDL	0.02	-	-	17.54	2.01	Recycled Back
04 Oct, 09:55:00 AM	Mills (Rail Mill)	Settling Tank with oil separators	-	7.52	58	-	-	-	-	-	3.01	Recycled Back
09 Oct, 09:45:00 AM	Plate Mill	Settling Tank with oil separators	16000	7.93	23	-	-	ı	-	-	3.15	Recycled Back
	CPP/TPP	Ash Dyke										Recycled Back

FUGITIVE EMISSION STATUS October 2023 to March 2024

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.	рН	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	Remarks		
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10			
03, 10, 18, 24, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	30.60	7.74	29	BDL	BDL	12	45	5.28	2.01			
03, 10, 18, 24, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	29.00	7.79	39	BDL	BDL	17	58	21.13	3.08			
06, 13, 20, 27, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	29.08	7.85	34	0.05	0.02	15	50	3.09	1.78			

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			
30 Oct, 10:40 AM	30 MLD	1150	28	7.55	52	24	80			
26 Oct, 10:38 AM	Bhilai House (Oxi. Pond)	475	28	8.41	64	18	64			
09 Oct, 10:00 AM	Risali (Oxi. Pond)	700	24	7.28	61	17	54			
02 Oct, 10:30 AM	Works area	390	26	7.80	41	14	40			

FUGITIVE EMISSION STATUS October 2023 to March 2024

Month- November 2023

Date & Time of the sample	Location of the sampling point	Type of treatment provided	Flow rate m3/Hr		Para	ameters	monito	red (mg	/l, exce _l	pt pH)		Remarks
			•	pН	TSS	Phen ol	Cya nide	BOD	COD	Amm. Nitrogen	0 & G	
Norm				6.0- 8.5	100 (50 for BF)	1	0.2	30	250	50	10	
	1		COBI	P Effluent			I.				•	
01 Nov, 09:35:00 AM	Inlet to BOD plant	Physiochemical & Biological	163	10.58	-	192	12.95	1	3000	631.0	8.54	Treated water used for quenching
01 Nov, 09:38:00 AM	Outlet to BOD plant	Physiochemical & Biological	-	7.66	82	0.530	0.19	13	200	38.13	4.60	Treated water used for quenching
07 Nov, 10:33:00 AM	Sinter Plant-2	Settling Tank	1400	8.12	31	-	-	-	-	-	4.82	Recycled back
07 Nov, 10:22:00 AM	Steel Melting Shop-2	Settling Tank	1650	8.36	56	-	-	-	-	-	4.54	Recycled
05 Nov, 10:10:00 AM	Blast Furnace- RST	Settling Tank /Cooling Pond	12500	7.29	47	-	0.14	-	-	32.60	2.05	Recycled Back
02 Nov, 10:15:00 AM	Mills (Rail Mill)	Settling Tank with oil separators	-	8.31	59	1	-	-	-	-	3.50	Recycled Back
11 Nov, 09:45:00 AM	Plate Mill	Settling Tank with oil separators	16000	8.32	49	-	-	-	-	-	3.09	Recycled Back
	CPP/TPP	Ash Dyke										Recycled Back

FUGITIVE EMISSION STATUS October 2023 to March 2024

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.) Town COD Amm. ORG											
			Temp.	рН	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, 28, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	26.95	7.78	36	BDL	BDL	14	46	2.68	1.61				
07, 14, 21, 28, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	29.13	7.80	56	BDL	BDL	17	54	19.05	2.56				
03, 10, 17, 24, 8:00 to 12:30, Grab	Stream -	COBPP, SP-II, SP-III, Coke Ovens and Mills	28.08	8.13	33	0.07	0.05	19	53	4.20	1.45				

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr								
			Temp.	Temp. pH SS BOD COD						
	Norms			6.5 -8.5	100	30	250			
13 Nov, 01:10 PM	30 MLD	1150	29	7.92	70	24	82			
24 Nov, 10:15 AM	Bhilai House (Oxi. Pond)	475	27	8.39	60	23	57			
14 Nov, 12:40 PM	Risali (Oxi. Pond)	700	29	8.20	77	23	69			
06 Nov, 09:40 AM	Works area	390	30	7.80	35	15	44			

FUGITIVE EMISSION STATUS October 2023 to March 2024

Month- December 2023

Date & Time of the sample	Location of the sampling point	Type of treatment provided	Flow rate m3/Hr		Para	ameters	monito	red (mg	/l, exce _l	pt pH)		Remarks
				рН	TSS	Phen ol	Cya nide	BOD	COD	Amm. Nitrogen	O & G	
Norm				6.0- 8.5	100 (50 for BF)	1	0.2	30	250	50	10	
			<u>COBI</u>	P Effluent								
06 Dec, 10:15:00 AM	Inlet to BOD plant	Physiochemical & Biological	160	11.38	-	194.2 5	16.95	1	3500	831.8	9.28	Treated water used for quenching
06 Dec, 10:18:00 AM	Outlet to BOD plant	Physiochemical & Biological	-	7.21	78	0.408	0.18	7	192	46.23	4.20	Treated water used for quenching
04 Dec, 10:00:00 AM	Sinter Plant-2	Settling Tank	1400	8.43	33	-	ı	ı	-	1	5.46	Recycled back
04 Dec, 09:53:00 AM	Steel Melting Shop-2	Settling Tank	1650	7.55	55	-	ı	ı	-	1	4.55	Recycled
11 Dec, 11:15:00 AM	Blast Furnace- RST	Settling Tank /Cooling Pond	12500	7.33	49	-	0.17	-	-	32.40	2.75	Recycled Back
01 Dec, 09:50:00 AM	Mills (Rail Mill)	Settling Tank with oil separators	-	7.91	48	-	-	-	-	-	3.74	Recycled Back
18 Dec, 10:50:00 AM	Plate Mill	Settling Tank with oil separators	16000	8.26	27	-	-	-	-	-	2.05	Recycled Back
	CPP/TPP	Ash Dyke										Recycled Back

FUGITIVE EMISSION STATUS October 2023 to March 2024

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.	рН	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	0&G		
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10		
05, 12, 19, 26, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	25.75	7.77	40	BDL	BDL	14	50	3.13	1.46		
05, 12, 19, 26, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	26.35	8.10	69	BDL	BDL	17	57	22.84	2.51		
07, 15, 19, 26, 8:00 to 12:30, Grab	Stream - C	COBPP, SP-II, SP-III, Coke Ovens and Mills	24.45	8.06	30	0.07	0.08	18	53	4.71	1.41		

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	Parameters (mg/l, except pH and temp.)							
			Temp.	рН	SS	BOD	COD			
	Norms		6.5 - 8.5 100 30 250							
12 Dec, 03:30 PM	30 MLD	1150	27	7.90	66	24	80			
28 Dec, 10:30 AM	Bhilai House (Oxi. Pond)	475	24	8.40	54	21	61			
29 Dec, 01:10 PM	Risali (Oxi. Pond)	700	25	8.29	64	23	67			
09 Dec, 10:05 AM	Works area	390	25	7.68	35	13	46			

FUGITIVE EMISSION STATUS October 2023 to March 2024

Month- January 2024

Date & Time of the sample	Location of the sampling point	Type of treatment provided	Flow rate m3/Hr		Parameters monitored (mg/l, except pH)							Remarks
			•	рН	TSS	Phen ol	Cya nide	BO D	COD	Amm. Nitrog en	0 & G	
Norm				6.0- 8.5	100 (50 for BF)	1	0.2	30	250	50	10	
			COBP I	<u>Effluent</u>								
03 Jan, 10:15:00 AM	Inlet to BOD plant	Physiochemical & Biological	160	10.87	-	196.2 5	17.53	-	3500	756.5	9.45	Treated water used for quenching
03 Jan, 10:20:00 AM	Outlet to BOD plant	Physiochemical & Biological	-	7.47	79.25	0.350	0.19	7	192	44.50	4.26	Treated water used for quenching
04 Jan, 09:53:00 AM	Sinter Plant-2	Settling Tank	1400	8.39	89	-	-	-1	-	-	6.04	Recycled back
04 Jan, 09:45:00 AM	Steel Melting Shop-2	Settling Tank	1650	8.23	78	-	-	1	-	-	5.40	Recycled
11 Jan, 09:40:00 AM	Blast Furnace- RST	Settling Tank /Cooling Pond	12500	6.94	45	BDL	0.17	-		18.84	3.20	Recycled Back
01 Jan, 09:45:00 AM	Mills (Rail Mill)	Settling Tank with oil separators	-	8.03	46	-	-	-	-	-	3.04	Recycled Back
23 Jan, 12:00:00 AM	Plate Mill	Settling Tank with oil separators	16000	7.35	25	-	-	1	-	-	2.18	Recycled Back
	CPP/TPP	Ash Dyke										Recycled Back

FUGITIVE EMISSION STATUS October 2023 to March 2024

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.	рН	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	0&G	
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
02, 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	27.05	7.85	40	BDL	BDL	16	49	5.15	1.40	
02, 08, 15, 22, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	26.40	8.38	61	BDL	BDL	19	57	11.40	2.57	
05, 15, 19, 26, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	24.90	8.33	32	0.09	0.09	21	62	8.60	1.98	

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	I	Parameters (mg	/l, except pH	and temp.)				
			Temp. pH SS BOD COD 6.5-8.5 100 30 250							
	Norms			6.5 -8.5	100	30	250			
08 Jan, 03:20 PM	30 MLD	1150	26	7.82	61	26	72			
16 Jan, 09:00 AM	Bhilai House (Oxi. Pond)	475	27	8.37	59	16	65			
22 Jan, 12:45 PM	Risali (Oxi. Pond)	700	25	8.27	57	17	59			
09 Jan, 11:45 AM	Works area	390	25	7.39	32	12	40			

FUGITIVE EMISSION STATUS October 2023 to March 2024

Month- February 2024

Date & Time of the sample	Location of the sampling point	Type of treatment provided	Flow rate m3/Hr	(8/,,								Remarks
				рН	TSS	Phen ol	Cya nide	BO D	COD	Amm. Nitrog en	0 & G	
Norm				6.0- 8.5	100 (50 for BF)	1	0.2	30	250	50	10	
			<u>COBP</u> 1	<u>Effluent</u>			•				•	
14 Feb, 09:58:00 AM	Inlet to BOD plant	Physiochemical & Biological	160	11.22	-	196.5	17.63	1	1420	699.3	8.61	Treated water used for quenching
14 Feb, 10:00:00 AM	Outlet to BOD plant	Physiochemical & Biological	-	7.91	71	0.280	0.18	8	171	45.37	4.14	Treated water used for quenching
01 Feb, 09:30:00 AM	Sinter Plant-2	Settling Tank	1400	8.30	62	-	-	-	-	-	4.30	Recycled back
01 Feb, 09:45:00 AM	Steel Melting Shop-2	Settling Tank	1650	8.46	44	1	-	1	-	-	4.65	Recycled
08 Feb, 09:55:00 AM	Blast Furnace- RST	Settling Tank /Cooling Pond	12500	6.96	48	BDL	0.15	1	-	11.20	3.10	Recycled Back
03 Feb, 08:45:00 AM	Mills (Rail Mill)	Settling Tank with oil separators	-	8.04	38	1		1	-	-	3.60	Recycled Back
13 Feb, 10:05:00 AM	Plate Mill	Settling Tank with oil separators	16000	8.10	30	-	-	-	-	-	2.37	Recycled Back
	CPP/TPP	Ash Dyke										Recycled Back

FUGITIVE EMISSION STATUS October 2023 to March 2024

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.	рН	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
05, 12, 19, 26, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP-I, ARS and Plate mill	29.40	7.48	32	BDL	BDL	18	45	4.92	2.68	
05, 12, 19, 26, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	28.40	7.55	40	BDL	BDL	20	49	16.65	3.64	
02, 09, 16, 23, 8:00 to 12:30, Grab	Stream – C	COBPP, SP-II, SP-III, Coke Ovens and Mills	27.15	8.27	34	0.12	0.09	23	56	6.99	1.42	

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	Pa	arameters (mg/	l, except pH a	and temp.)			
			Temp. pH SS BOD COD						
	Norms			6.5 -8.5	100	30	250		
05 Feb, 10:20 AM	30 MLD	1150	28	8.37	60	27	67		
16 Feb, 08:10 AM	Bhilai House (Oxi. Pond)	475	17	7.52	57	15	72		
05 Feb, 10:05 AM	Risali (Oxi. Pond)	700	27	8.29	60	16	57		
08 Feb, 09:30 AM	Works area	390	25	7.30	44	12	38		

FUGITIVE EMISSION STATUS October 2023 to March 2024

Month- March 2024

Date & Time of the sample	Location of the sampling point	Type of treatment provided	Flow rate m3/Hr		Para	ameters n	nonitor	ed (mg	/l, exce	pt pH)		Remarks
				рН	TSS	Phenol	Cya nid e	BOD	COD	Amm. Nitrogen	0 & G	
Norm				6.0-8.5	100 (50 for BF)	1	0.2	30	250	50	10	
			COB	P Effluent								
06 Mar, 10:02:00 AM	Inlet to BOD plant	Physiochemical & Biological	160	11.43	-	189	17.10	-	1466	740.3	9.26	Treated water used for quenching
06 Mar, 10:05:00 AM	Outlet to BOD plant	Physiochemical & Biological	-	7.59	79	0.428	0.19	9	180	45.93	4.56	Treated water used for quenching
02 Mar, 10:12:00 AM	Sinter Plant-2	Settling Tank	1400	7.98	95	-	-	-	-	-	4.74	Recycled back
02 Mar, 10:06:00 AM	Steel Melting Shop-2	Settling Tank	1650	8.00	40	-	-	-	-	-	4.32	Recycled
14 Mar, 09:45:00 AM	Blast Furnace- RST	Settling Tank /Cooling Pond	12500	7.41	45	BDL	0.19	-	-	47.20	1.60	Recycled Back
05 Mar, 10:00:00 AM	Mills (Rail Mill)	Settling Tank with oil separators	-	7.57	37	-	-	-	-	-	3.80	Recycled Back
11 Mar, 10:35:00 AM	Plate Mill	Settling Tank with oil separators	16000	6.53	30	-	-	-	-	-	2.68	Recycled Back
	CPP/TPP	Ash Dyke										Recycled Back

FUGITIVE EMISSION STATUS October 2023 to March 2024

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.	рН	SS	Phenol	Cyanide	BOD	COD	Amm. Nitrogen	O&G	Remarks
Norms			-	6.5-8.5	100	1	0.2	30	250	50	10	
04, 11, 18, 26, 8:00 to 12:30, Grab	Stream – A	SMS I & II, Foundry, PP-1, BF, OP-I, RMP- I, ARS and Plate mill	30.03	6.63	70	BDL	BDL	17	53	4.66	2.77	
04, 11, 18, 26, 8:00 to 12:30, Grab	Stream – B	MSDS-I, RTS, T&D, and R&SM	29.73	7.12	47	BDL	BDL	20	63	15.11	3.53	
01, 08, 15, 22, 8:00 to 12:30, Grab	Stream - C	COBPP, SP-II, SP-III, Coke Ovens and Mills	29.25	7.81	33	0.09	0.08	24	48	5.72	1.65	

Date & time of the Monitoring	Name of the STP	Quantity of the Effluent m3/hr	P	arameters (mg	/l, except pH	and temp.)		Remarks
			Temp. pH SS BOD COD					
	Norms			6.5 -8.5	100	30	250	
04 Mar, 03:29 PM	30 MLD	1150	31	7.93	64	24	69	
15 Mar, 03:10 PM	Bhilai House (Oxi. Pond)	475	32	7.78	80	21	73	
04 Mar, 02:52 PM	Risali (Oxi. Pond)	700	31	7.06	52	16	57	
12 Mar, 09:45 AM	Works area	390	29	7.10	41	14	48	

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Noise Pollution Control Status

Month-October 2023

Location	Date of Monitorin g	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A)	Duration of the monitorin g (time)	Remark s
Oxygen plant-2 (Control Room)	27-0ct	5 m	Air tight control Room	67.0	2 Minute	
Blast Furnace- 7(Control Room)	19-0ct	5 m	Acoustic Room	67.5	2 Minute	
Mills (Rolling / forgoing) Rail Mill	23-0ct	5 m	Acoustic pulpit	85.3	2 Minute	
TPP/CPP (Turbines-5) (Control Room)	06-0ct	5 m	Acoustic cabins	69.7	2 Minute	
SP-2, (M/c-3 & 4) Operator's room	02-0ct	5 m	Acoustic Room	67.2	2 Minute	
Coke-oven area (Batt1 & 2) (Control Room)	09-0ct	5 m	Air Tight control Room	69.3	2 Minute	
Others						

^{*} Noise level map of the plant may beattached along with the report

Bhilai Steel Plant Noise Pollution Status October 2023 to March 2024

2. Ambient Noise Monitoring

Noise Zone	Noise Level	Un	it: dB (A)
Noise Zone	Standard	Day Time	Night time
Industrial Area (at boundary of plant)			
Near OP-2	75	53.8	52.7
Near Joratarai Gate	75	54.6	51.9
Near Main Gate	75	53.4	51.3
Near Khursipar Gate	75	67.3	65.8
Commercial Area			
Sector-05 (Market area)	65 Day & 55 Night	62.8	51.3
Sector-06 (Near 'B' Market)	65 Day & 55 Night	64.0	52.0
Sector-09 (Goal Market)	65 Day & 55 Night	53.4	53.0
Maroda Sector (BSP Market)	65 Day & 55 Night	50.8	50.2
Risali Sector (BSP Market)	65 Day & 55 Night	55.7	54.5
Residential Area			
Sector-01 (Street No 23)	55 Day & 45 Night	48.8	42.0
Sector-05 (Street No 32)	55 Day & 45 Night	52.0	39.2
Sector-07 (Street No 17)	55 Day & 45 Night	47.3	41.4
Sector-08 (Street No 05)	55 Day & 45 Night	51.2	43.0
Sector-10 (Street No 25)	55 Day & 45 Night	47.9	40.5
Silence Area			
Sector-02 (English Medium Middle School)	50 Day & 40 Night	48.2	38.0
Sector-05 (Girls Higher Secondry School)	50 Day & 40 Night	46.4	38.7
Sector-07 (English Medium Middle School)	50 Day & 40 Night	46.3	38.2
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.0	39.0
Maroda Sector (Estate Court)	50 Day & 40 Night	48.1	36.0

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

Month- November 2023

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)	23-Nov	5 m	Air tight control Room	66.5	2 Minute	
Blast Furnace- 5(Control Room)	22-Nov	5 m	Acoustic Room	67.3	2 Minute	
Mills (Rolling / forgoing) Rail Mill	23-Nov	5 m	Acoustic pulpit	84.7	2 Minute	
TPP/CPP (Turbines-5) (Control Room)	13-Nov	5 m	Acoustic cabins	68.3	2 Minute	
SP-2, (M/c-1 & 2) Operator's room	11-Nov	5 m	Acoustic Room	66.1	2 Minute	
Coke-oven area (Batt9 & 10) (Control Room)	15-Nov	5 m	Air Tight control Room	69.1	2 Minute	
Others						

2. Ambient Noise Monitoring

Noise Zone	Noise Level	Un	it: dB (A)
Noise Zone	Standard	Day Time	Night time
Industrial Area (at boundary of plant)		j	
Industrial Area (at boundary of plant)			
Near OP-2	75	56.3	51.4
Near OP-2	75	53.8	52.7
Near Joratarai Gate	75	54.6	51.9
Near Main Gate	75	53.4	51.3
Near Khursipar Gate	75	67.3	65.8
Commercial Area			
Sector-05 (Market area)	65 Day & 55 Night	62.8	51.3
Sector-06 (Near 'B' Market)	65 Day & 55 Night	64.0	52.0
Sector-09 (Goal Market)	65 Day & 55 Night	53.4	53.0
Maroda Sector (BSP Market)	65 Day & 55 Night	50.8	50.2
Risali Sector (BSP Market)	65 Day & 55 Night	55.7	54.5
Residential Area			
Sector-01 (Street No 23)	55 Day & 45 Night	48.8	42.0
Sector-05 (Street No 32)	55 Day & 45 Night	52.0	39.2
Sector-07 (Street No 17)	55 Day & 45 Night	47.3	41.4
Sector-08 (Street No 05)	55 Day & 45 Night	51.2	43.0
Sector-10 (Street No 25)	55 Day & 45 Night	47.9	40.5
Silence Area			
Sector-02 (English Medium Middle School)	50 Day & 40 Night	48.2	38.0
Sector-05 (Girls Higher Secondry School)	50 Day & 40 Night	46.4	38.7
Sector-07 (English Medium Middle School)	50 Day & 40 Night	46.3	38.2
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.0	39.0

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

Month- December 2023

Location	Date of Monitoring	Distance from the source	Name of control equipment provided	Noise Level Leq dB(A)	Duration of the monitoring (time)	Remar ks
Oxygen plant-2 (Control Room)	27-Dec	5 m	Air tight control Room	61.0	2 Minute	
Blast Furnace- 7(Control Room)	01-Dec	5 m	Acoustic Room	68.3	2 Minute	
Mills (Rolling / forgoing) Rail Mill	27-Dec	5 m	Acoustic pulpit	89.3	2 Minute	
TPP/CPP (Turbines-4) (Control Room)	05-Dec	5 m	Acoustic cabins	68.9	2 Minute	
SP-2, (M/c-3 & 4) Operator's room	18-Dec	5 m	Acoustic Room	67.3	2 Minute	
Coke-oven area (Batt9 & 10) (Control Room)	04-Dec	5 m	Air Tight control Room	67.3	2 Minute	
Oxygen plant-2 (Control Room)	27-Dec	5 m	Air tight control Room	61.0	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2023 to March 2024

2. Ambient Noise Monitoring

Noise Zone	Noise Level	Unit:	dB (A)
Noise Zone	Standard	Day Time	Night time
Industrial Area (at boundary of plant)			
Near OP-2	75	54.3	51.9
Near Joratarai Gate	75	53.9	50.6
Near Main Gate	75	58.0	53.8
Near Khursipar Gate	75	67.4	64.7
Commercial Area			
Sector-05 (Market area)	65 Day & 55 Night	54.3	51.0
Sector-06 (Near 'B' Market)	65 Day & 55 Night	56.4	52.5
Sector-09 (Goal Market)	65 Day & 55 Night	53.8	44.5
Maroda Sector (BSP Market)	65 Day & 55 Night	53.8	53.2
Risali Sector (BSP Market)	65 Day & 55 Night	62.4	52.5
Residential Area			
Sector-01 (Street No 23)	55 Day & 45 Night	47.7	43.0
Sector-05 (Street No 32)	55 Day & 45 Night	53.0	41.7
Sector-07 (Street No 17)	55 Day & 45 Night	45.4	42.3
Sector-08 (Street No 05)	55 Day & 45 Night	48.6	43.6
Sector-10 (Street No 25)	55 Day & 45 Night	49.3	44.7
Silence Area			
Sector-02 (English Medium Middle School)	50 Day & 40 Night	48.9	39.1
Sector-05 (Girls Higher Secondry School)	50 Day & 40 Night	48.6	38.4
Sector-07 (English Medium Middle School)	50 Day & 40 Night	49.8	39.0
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.0	39.0
Maroda Sector (Estate Court)	50 Day & 40 Night	47.9	38.7

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

Month - January 2024

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)	26-Jan	5 m	Air tight control Room	63.0	2 Minute	
Blast Furnace- 1(Control Room)	08-Jan	5 m	Acoustic Room	67.9	2 Minute	
Mills (Rolling / forgoing) Rail Mill	25-Jan	5 m	Acoustic pulpit	88.7	2 Minute	
TPP/CPP (Turbines-4) (Control Room)	11-Jan	5 m	Acoustic cabins	66.9	2 Minute	
SP-2, (M/c-1 & 2) Operator's room	04-Jan	5 m	Acoustic Room	67.0	2 Minute	
Coke-oven area (Batt1 & 2) (Control Room)	05-Jan	5 m	Air Tight control Room	67.3	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2023 to March 2024

2. Ambient Noise Monitoring

Noise Zone	Noise Level	Unit: dB (A)		
Noise Zone	Standard	Day Time	Night time	
Industrial Area (at boundary of plant)				
Near OP-2	75	54.3	51.9	
Near Joratarai Gate	75	53.9	50.6	
Near Main Gate	75	58.0	53.8	
Near Khursipar Gate	75	67.4	64.7	
Commercial Area				
Sector-05 (Market area)	65 Day & 55 Night	54.3	51.0	
Sector-06 (Near 'B' Market)	65 Day & 55 Night	56.4	52.5	
Sector-09 (Goal Market)	65 Day & 55 Night	53.8	44.5	
Maroda Sector (BSP Market)	65 Day & 55 Night	53.8	53.2	
Risali Sector (BSP Market)	65 Day & 55 Night	62.4	52.5	
Residential Area				
Sector-01 (Street No 23)	55 Day & 45 Night	47.7	43.0	
Sector-05 (Street No 32)	55 Day & 45 Night	53.0	41.7	
Sector-07 (Street No 17)	55 Day & 45 Night	45.4	42.3	
Sector-08 (Street No 05)	55 Day & 45 Night	48.6	43.6	
Sector-10 (Street No 25)	55 Day & 45 Night	49.3	44.7	
Silence Area				
Sector-02 (English Medium Middle School)	50 Day & 40 Night	48.9	39.1	
Sector-05 (Girls Higher Secondry School)	50 Day & 40 Night	48.6	38.4	
Sector-07 (English Medium Middle School)	50 Day & 40 Night	49.8	39.0	
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.0	39.0	
Maroda Sector (Estate Court)	50 Day & 40 Night	47.9	38.7	

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

Month - February 2024

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)	23-Feb	5 m	Air tight control Room	64.2	2 Minute	
Blast Furnace- 1(Control Room)	06-Feb	5 m	Acoustic Room	70.0	2 Minute	
Mills (Rolling / forgoing) Rail Mill	23-Feb	5 m	Acoustic pulpit	89.3	2 Minute	
TPP/CPP (Turbines-4) (Control Room)	10-Feb	5 m	Acoustic cabins	68.3	2 Minute	
SP-2, (M/c-1 & 2) Operator's room	01-Feb	5 m	Acoustic Room	68.3	2 Minute	
Coke-oven area (Batt1 & 2) (Control Room)	05-Feb	5 m	Air Tight control Room	69.5	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2023 to March 2024

2. Ambient Noise Monitoring

Noise Zone	Noise Level	Unit: d	IB (A)
Noise Zoile	Standard	Day Time	Night time
Near OP-2	75	54.3	51.9
Near Joratarai Gate	75	53.9	50.6
Near Main Gate	75	58.0	53.8
Near Khursipar Gate	75	67.4	64.7
Commercial Area			
Sector-05 (Market area)	65 Day & 55 Night	54.3	51.0
Sector-06 (Near 'B' Market)	65 Day & 55 Night	56.4	52.5
Sector-09 (Goal Market)	65 Day & 55 Night	53.8	44.5
Maroda Sector (BSP Market)	65 Day & 55 Night	53.8	53.2
Risali Sector (BSP Market)	65 Day & 55 Night	62.4	52.5
Residential Area			
Sector-01 (Street No 23)	55 Day & 45 Night	47.7	43.0
Sector-05 (Street No 32)	55 Day & 45 Night	53.0	41.7
Sector-07 (Street No 17)	55 Day & 45 Night	45.4	42.3
Sector-08 (Street No 05)	55 Day & 45 Night	48.6	43.6
Sector-10 (Street No 25)	55 Day & 45 Night	49.3	44.7
Silence Area			
Sector-02 (English Medium Middle School)	50 Day & 40 Night	48.9	39.1
Sector-05 (Girls Higher Secondry School)	50 Day & 40 Night	48.6	38.4
Sector-07 (English Medium Middle School)	50 Day & 40 Night	49.8	39.0
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	47.0	39.0
Maroda Sector (Estate Court)	50 Day & 40 Night	47.9	38.7

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

Month - March 2024

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)	Remar ks
Oxygen plant-2 (Control Room)	30-Mar	5 m	Air tight control Room	65.3	2 Minute	
Blast Furnace- 4(Control Room)	05-Mar	5 m	Acoustic Room	69.5	2 Minute	
Mills (Rolling / forgoing) Rail Mill	30-Mar	5 m	Acoustic pulpit	84.3	2 Minute	
TPP/CPP (Turbines-6) (Control Room)	07-Mar	5 m	Acoustic cabins	67.8	2 Minute	
SP-2, (M/c-4) Operator's room	04-Mar	5 m	Acoustic Room	65.8	2 Minute	
Coke-oven area (Batt2) (Control Room)	01-Mar	5 m	Air Tight control Room	71.0	2 Minute	
Others						

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

Bhilai Steel Plant Noise Pollution Status October 2023 to March 2024

2. Ambient Noise Monitoring

Noise Zone	Noise Level	Unit: d	IB (A)
	Standard	Day Time	Night time
Industrial Area (at boundary of plant)			
Near OP-2	75	55.3	51.8
Near Joratarai Gate	75	53.5	50.3
Near Main Gate	75	52.5	48.9
Near Khursipar Gate	75	69.0	65.7
Commercial Area			
Sector-05 (Market area)	65 Day & 55 Night	63.9	50.6
Sector-06 (Near 'B' Market)	65 Day & 55 Night	63.8	52.8
Sector-09 (Goal Market)	65 Day & 55 Night	64.3	51.6
Maroda Sector (BSP Market)	65 Day & 55 Night	60.5	50.8
Risali Sector (BSP Market)	65 Day & 55 Night	63.1	53.9
Residential Area			
Sector-01 (Street No 23)	55 Day & 45 Night	51.8	43.3
Sector-05 (Street No 32)	55 Day & 45 Night	53.7	41.8
Sector-07 (Street No 17)	55 Day & 45 Night	51.4	43.6
Sector-08 (Street No 05)	55 Day & 45 Night	49.0	42.0
Sector-10 (Street No 25)	55 Day & 45 Night	52.8	40.7
Silence Area			
Sector-02 (English Medium Middle School)	50 Day & 40 Night	46.7	38.3
Sector-05 (Girls Higher Secondry School)	50 Day & 40 Night	46.9	38.7
Sector-07 (English Medium Middle School)	50 Day & 40 Night	48.6	39.2
Risali Sector (Aadarsh Hindi Medium Middle School)	50 Day & 40 Night	46.3	37.5
Maroda Sector (Estate Court)	50 Day & 40 Night	48.7	37.9

Noise Monitoring in township area done (Quarterly) in the month of March-24

Flag-H

Environmental Projects Implemented at BSP

Let's commit to Clean & Green Bhilai

S.No.	Projects	Status (As on 31 st March 2024)
1.	Water recycling schemes for Plant Outlet-B Cost: 3.91 Crs	Completed.
2.	Water recycling schemes for Plant outlet-C Cost : 44.8 Crs	Completed
3.	To de-link the HUDCO sewerage line from sewerage net-work of Bhilai Township & divert house & laying of 2.5 KM sewer line.	 BSP requested CECB to delist this project from the list of BG project earlier submitted by BSP. In principle Consent has been issued by CECB with additional conditions dated 03/10/2022.
4.	Construction of Secured Land Fill for disposal of hazardous waste. Cost: 12.4 Crs	Completed.
5.	Replacement of Multi-cyclones (wet scrubbers) by ESPs at Sinter Plant-II for control of Stack emission. Cost: 43.91 Crs	Completed.
6.	ESP based de-dusting system at SP-II for work-zone/fugitive emission control. Cost: 2.987Crs	Completed.
7.	Up-gradation of waste gas ESP of SP-III for control of Stack emission. Cost: 6.24 Crs	
8.	Cast house De-fuming system in Blast Furnace-7 for control of work-zone emissions in cast house.	Completed.

	Cost : 12.67 Crs	
9.	Replacement of wet scrubbers with Bag-filters at RMP-II for control of Stack emissions.	Work in Progress.
	Cost: 3.95 Crs	
10.	Installation of secondary Emission control system/Dog-House for three Convertors at Steel melting Shop-II. Cost: 411.89 Crs	Contract signed on 15/12/2023.Contract duration 30 months.(14th June 2026).