Half Yearly Compliance Report 2023 01 Dec(01 Apr - 30 Sep)

Acknowledgment

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	NA
Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2023

Remarks (if any)

Reporting Period 01 Dec(01 Apr - 30 Sep)

Details of Production and Project Area

Name of Entity / Corporate Office

Ms.Uma Katoch

	Project Area as per EC Granted	Annual Project Area in Possession
Private	0	0
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	0	0

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
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Conditions

Sr.No.	Condition Type	Condition Details	
1	MISCELLANEOUS	Safety mock drill for gas pipeline maintenance shall every six months and reported to the Regional Office of The project proponent shall arrange to provide training on 'behavioral safety'.	of MoEF&CC
• Safety a enclosed		nce are being conducted every six months (Report on 'behavioural safety" is being organized regularly	Date: 03/01/2024
2	Corporate Environmental Responsibility	All CER activities as committed in the reply to the A 02.01.2019 shall be completed in the financial year 20	
 BSP hat the reply wave from in the con 	to the ADS letter dated 02.01.2019. m March to November 2020 and 2nd mpletion of the projects. • However,	of all identified CER activities/projects committed in • Due to the prevalence of the COVID pandemic (Ist d wave from March to June-2021) there has been delay presently the CER projects are progressing well & etailed status report on CER activities is enclosed at	Date: 03/01/2024
3	AIR QUALITY MONITORING AND PRESERVATION	Standard Operating Procedures (SOPs) shall be developerformance monitoring of pollution control devices a monitoring should get conducted every year internally year through accredited third party,	nd performan
Standard control d	evices and performance monitoring	eveloped for performance monitoring of pollution every year internally Performance monitoring of through an accredited third party will also be conducted.	Date: 03/01/2024
4	GREENBELT	Scheme for decommissioning of SMS-1 and its utilit green belt development in that area shall be submitted months to the Ministry and Regional Oflice of the Mo	within six
SMS-1 p	bmission: Complied hased-out in March-2021 Decommisd to MoEFCC.	ssioning plan along with greenbelt development will be	Date: 03/01/2024
5	GREENBELT	Scheme for green belt development in the remaining covering 33% of total project area shall be submitted toffice of the MoEF&CC.	
• BSP hathe year surround March), about 20 280 Hect	2023-24 BSP has been planted 2594 ing area of Bhilai. Work awarded to BSP has planted 21210 trees within 25 hectares. • Further Green belt red	area covering about 1885 hectares till Sep2023. • In 2Trees. 25650 saplings planted at Township and its C.G. Van Vikas Nigam. • In the year 2022-23(Aprilthe plant premises & township covering an area of quired to be developed to meet the 33% criteria is about wo reservoirs/cooling ponds area of 1100 hectares from coverage comes to 36.34 %.	Date: 03/01/2024
		In the Environmental Policy the hierarchy of reporting	200

PPs Submission: Complied

The policy followed at SAIL for reporting environmental non-compliances and emergencies has already been submitted to MoEF&CC-New Delhi.

Date: 03/01/2024

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WASTE MANAGEMENT

Solid waste management as committed in the reply to the ADS letter dated 02.01.2019 shall be complied.

PPs Submission: Complied

Solid waste management as committed in the reply to the ADS letter dated 02.01.2019 will be complied.

Date: 03/01/2024

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WASTE MANAGEMENT

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

PPs Submission: Complied

• About 55% the BOF slag is presently being recycled back in to steel making process and also utilized in Road Making & filling of the low lying areas. • BSP has also started selling BOF slag to the interested buyers (Cement Plants other Construction industries) since April-2021. • A pilot scale study on "Development of process for steam maturing of BOF slag" at BSL was taken up by SAIL. The matured BOF slag can be utilised as an aggregate in cement concrete, as rail track ballast and for road making etc. SAIL came out with the final report, wherein optimum process parameters have been frozen. The proposition for steam maturing facility on commercial scale is under consideration.

Date: 03/01/2024

• Number of other R&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.

General Conditions

Sr.No.	Condition Type	Condition Details	
1	ENERGY PRESERVATION MEASURES	Use hot charging of slabs and billets/blooms as far as	possible
PPs Submission: Complied Hot charging of slabs and billets/blooms is being done at Rolling mills. Date: 04/01/2024			

2	WASTE MANAGEMENT	Used refractories shall be recycled as far as possible	
			Date:

PPs Submission: Complied Being done.	Date: 04/01/2024
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2	ENERGY PRESERVATION	Waste heat shall be recovered from Sinter Plants coolers and Sinter
3	MEASURES	Machines

PPs Submission: Complied Waste heat recovery systems have been installed for Sinter Plants coolers and Sinter Machines of SP-3.	Date: 04/01/2024	

4	AIR QUALITY MONITORING AND PRESERVATION	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility)
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	Submission: Complied ies for spillage collection are provided	for coal and coke on wharf of coke oven batteries	Date: 03/01/2024
5	AIR QUALITY MONITORING AND PRESERVATION	Land-based APC system shall be installed to control emissions	l coke pushing
	Submission: Complied based APC system has been installed to	control coke pushing emissions in Coke oven Battery-	Date: 03/01/2024
6	AIR QUALITY MONITORING AND PRESERVATION	Monitor CO, HC and Oz in flue gases of the coke of 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: 03/01/2024
7	WATER QUALITY MONITORING AND PRESERVATION	Adhere to 'Zero Liquid Discharge'	
BSP h m3/Hr		Outlet-A, B&C). Effluent from outlet-A (About 5000 voling schemes for Outlet-B (450 m3/hr) & Outlet-C etion.	Date: 03/01/2024
8	ENERGY PRESERVATION MEASURES	Provide LED lights in their offices and residential a	reas
	Submission: Complied sive use of LED lights in their offices and	nd residential areas is being practiced.	Date: 04/01/2024
9	ENERGY PRESERVATION MEASURES	Coke Dry Quenching (CDQ shall be provided for cofor both recovery and non-recovery type coke ovens	oke quenching
	Submission: Complied v Coke oven Battaery-11, Coke Dry Qu	nenching (CDQ) has been installed	Date: 04/01/2024
10	MISCELLANEOUS	Any appeal against this EC shall lie with the Nation Tribunal, if preferred within a period of 30 days as pr Sction16 of the National Green Tribunal Act,2010	
PPs Agree	Submission: Complied d		Date: 04/01/2024
11	AIR QUALITY MONITORING AND PRESERVATION	The project proponent use leak proof trucks/dumper and other raw materials and cover them with tarpauling	
At BS Iron o		ansportation of 95 % of the raw materials like coal & naterials leak proof trucks/dumpers are being used after	Date: 03/01/2024
12	ENERGY PRESERVATION	Waste heat recovery systems shall be provided in all	l units where

	MEASURES	the flue gas or process gas exceeds 300oC	
	Submission: Complied heat recovery systems have been insta	lled at Sinter Plants, Coke ovens, Blast Furnaces, Power	Date: 04/01/2024
13	ENERGY PRESERVATION MEASURES	Ensure installation of regenerative type burners on all furnaces	l reheating
	Submission: Complied rative type burners are being used for a	all reheating furnaces.	Date: 04/01/2024
14	AIR QUALITY MONITORING AND PRESERVATION	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 referer NOx emissions) within and outside the plant area at least locations (one within and three outside the plant area at 1200 each), covering upwind and downwind directions	n parameters I PM2.5 in nee to SO2 ar ast at four t an angle of
4 nos of the plate Ambie Dioxid Arseni	ont area covering upwind and downwin ont Air quality standards-2009, namely, le (SO2), Nitrogen Dioxide (NO2), An	onitoring stations have been installed within and outside ad directions Twelve air pollutants, as per the National , PM10, PM2.5, Carbon Monoxide (CO), Sulphur amonia (NH3), ground level Ozone (O3), Lead, ene are being measured (Note: Benzene and Benzo (a)	Date: 03/01/2024
	A ID, OLI A I ITTI	The cameras shall be installed at suitable locations fo	or 24X7
15	AIR QUALITY MONITORING AND PRESERVATION	recording of battery emissions on the both sides of coke batteries and videos shall be preserved for at least one-recordings.	e oven
PPs	MONITORING AND	batteries and videos shall be preserved for at least one-recordings.	e oven month Date:
PPs Camer	MONITORING AND PRESERVATION Submission: Complied	batteries and videos shall be preserved for at least one-recordings.	Date: 03/01/2024
PPs Camer 16 PPs Sampl	MONITORING AND PRESERVATION Submission: Complied as have been installed at Coke ovens for AIR QUALITY MONITORING AND PRESERVATION Submission: Complied	batteries and videos shall be preserved for at least one-recordings. For recording of battery emissions Sampling facility at process stacks and at quenching provided as per CPCB guidelines for manual monitoring towers have been provided as per CPCB	Date: 03/01/2024 towers shall lag of emission
PPs Camer 16 PPs Sampl	MONITORING AND PRESERVATION Submission: Complied at Coke ovens for AIR QUALITY MONITORING AND PRESERVATION Submission: Complied ing facilities at process stacks and at quality and at q	batteries and videos shall be preserved for at least one-recordings. For recording of battery emissions Sampling facility at process stacks and at quenching provided as per CPCB guidelines for manual monitoring towers have been provided as per CPCB	Date: 03/01/2024 towers shall lag of emission Date: 03/01/2024 y report of and results of quality Zonal office of
PPs Camer 16 PPs Sampliguideli 17 PPs Copies results	MONITORING AND PRESERVATION Submission: Complied as have been installed at Coke ovens for AIR QUALITY MONITORING AND PRESERVATION Submission: Complied ing facilities at process stacks and at quines for manual monitoring of emission AIR QUALITY MONITORING AND PRESERVATION Submission: Complied as of monthly summary report of continuous for monthly summary repor	batteries and videos shall be preserved for at least one-recordings. Sampling facility at process stacks and at quenching provided as per CPCB guidelines for manual monitoring uenching towers have been provided as per CPCB ins The project proponent shall submit monthly summary continuous stack emission and air quality monitoring at manual stack monitoring and manual monitoring of air /fugitive emissions to Regional Office of MoEF&CC, 7 CPCB and Regional Office of SPCB along with six-monitoring report,	Date: 03/01/2024 towers shall lag of emission Date: 03/01/2024 y report of equality Zonal office of

	per-2021 to March-2022) is enclosed	nual monitoring of air quality /fugitive emissions	
18	AIR QUALITY MONITORING AND PRESERVATION	Secondary emission control system shall be provided Converters.	d at SMS
	Submission: Complied dary emission control system has been	en provided for SMS-3 Converters.	Date: 03/01/2024
19	AIR QUALITY MONITORING AND PRESERVATION	Pollution control system in the steel plant shall be pr the CREP Guidelines of CPCB.	ovided as per
The Po	ent of effluents of COCCD Seconda	idelines of CREP have been provided BOD plant for the ary emission control system has been provided for SMS-3 have been provided for BF-8 & BF-7	Date: 03/01/2024
20	AIR QUALITY MONITORING AND PRESERVATION	Vapour absorption system shall be provided in place compression system for cooling of coke oven gas in catype coke ovens	of vapour ase of recover
	Submission: Complied stallation of the system shall be expl	ored in future based on feasibility	Date: 03/01/2024
21	AIR QUALITY MONITORING AND PRESERVATION In case concentrated ammonia liquor is incinerated, ado temperature incineration to destroy Dioxins and Furans. S NOx control facility shall be provided 10 meet the prescription of the		s. Suitable
Regula	Submission: Complied ar monitoring of coke oven stack emovens are meeting the standards.	issions is being done & The Gaseous emissions from	Date: 03/01/2024
22	AIR QUALITY MONITORING AND PRESERVATION	The coke oven gas shall be subjected to desulphuriza sulphur content in the coal exceeds 1%.	ation if the
	Submission: Complied P the imported coal has sulphur cont	ent less than 1%.	Date: 03/01/2024
23	AIR QUALITY MONITORING AND PRESERVATION	Wind shelter piles. fence and chemical spraying shal on the raw material stock piles	ll be provided
	Submission: Complied sprinklers are installed for control o	f dust at raw material stock piles	Date: 03/01/2024
24	AIR QUALITY MONITORING AND PRESERVATION	Design the ventilation system for adequate air chang ACGIH document for all tunnels, motor houses, Oil C	
	Submission: Complied	es as per ACGIH document for all tunnels, motor houses,	Date: 03/01/2024

	Statutory compliance	/ from the competent authority concerned in case of drawater required for the project.	awl of surfac
	Submission: Complied bund water will be used for the project.		Date: 03/01/2024
26	Statutory compliance	The project proponent shall obtain authorization und Hazardous and other Waste Management Rules,2016 a from time to time.	
BSP ha		andling of the Hazardous Waste Generated in the Plant Board which is valid up to 16/04/2024. Copy of the	Date: 03/01/2024
27	Statutory compliance	The project proponent shall obtain Consent to Establunder the provisions of Air (Prevention & Control of F 1981 and the Water (prevention & Control of Pollution) from the concerned State pollution control Board/ Con	Pollution) Act Act 1974
Online Conse		as been submitted to Chhattisgarh Environment The Consent to Establish was granted by CECB Ref.no. Eve Years.	Date: 03/01/2024
28	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall monitor fugitive emissio premises at least once in every quarter through labs rec Environment (Protection) Act, 1986.	
	Submission: Complied we emissions are being monitored every	quarter & report submitted to regulatory agencies.	Date: 03/01/2024
29	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	e dust from all vulnerable sources. The	en provided for all the dust generating points including e stack & fugitive emissions monitored are meeting the	Date: 03/01/2024
30	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall provide leakage detection mechanised bag cleaning facilities for better maintenant	
	Submission: Complied nt maintenance of Bags is being done &	are replaced whenever there are leakages.	Date: 03/01/2024
			1 11 1
	AIR QUALITY MONITORING AND PRESERVATION	Sufficient number of mobile or stationery vacuum cle provided to clean plant roads. shop floors, roofs, regula	

32	AIR QUALITY MONITORING AND PRESERVATION	Recycle and reuse Iron ore fines, coal and coke fines such other fines collected in the pollution control devic cleaning devices in the process after briquetting/ agglo	ces and vacuun
Iron or devices agglon	s are being recycled back to the process	and such other fines collected in the pollution control after appropriate treatment. A briquetting/talled in next 3 years for increasing the utilization of	Date: 03/01/2024
33	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous of monitoring system at process stacks to monitor stack e respect to standards prescribed in Environment (Protect 1986 vide G.S.R 277 {E) dated 3lst March 20l2(Integra Steel) G.S.R 414 (E) dated 30th May 2008 (Sponge large from time to time; S.O. 3305 (E) dated 7th December 2 power Plants) as amended from time to time and connected and CPCB online servers and calibrate these system from time according to equipment supplier specification through the servers and calibrate these system from the according to equipment supplier specification through the servers and calibrate these system from the according to equipment supplier specification through the servers and calibrate these systems from the according to equipment supplier specification through the servers and calibrate these systems from the according to equipment supplier specification through the servers and calibrate these systems from the according to equipment supplier specification through the servers and calibrate these systems from the according to equipment supplier specification through the servers and calibrate these systems from the according to equipment supplier specification through the servers and calibrate these systems from the servers and calibrate the servers an	mission with etion) Rules ated iron & on) as amended 2015 (Thermal ected to SPCB om time to ough labs
31 nos CPCB to equi	online servers and calibration of this sy	all the process stacks and connected to SPCB and extem is being carried-out from time to time according bs recognized under Environment (Protection) Act,	Date: 03/01/2024
34	AIR QUALITY MONITORING AND PRESERVATION	The project proponent shall install Dry Gas Cleaning filter for Blast Furnace and-SMS convertor- (to be decrease basis depending on type and size of plant)	
At BSI	Submission: Complied P consultant MECON has recommended Dry Gas Cleaning Plant are not feasible	d wet gas cleaning systems for BFs & SMS convertors	Date: 03/01/2024
35	AIR QUALITY MONITORING AND PRESERVATION	Dry quenching (CDQ) system shall be installed along generation facility from waste heat recovery from hot of	
Dry qu	Submission: Complied enching (CDQ) system along with powas been installed for Coke Oven Battery	ver generation facility for waste heat recovery from hot y-11.	Date: 03/01/2024
36	WATER QUALITY MONITORING AND PRESERVATION	Water meters shall be provided at the inlet to all unit the steel plants	processes in
	Submission: Complied r meters are installed at strategic location	ons to measure water flow to the process plants.	Date: 03/01/2024
37	Noise Monitoring & Prevention	Noise monitoring and prevention	·
<i>31</i>			
PPs S • Regulation Replants,		otential high noise generating areas like BFs, Power es, silencers etc have been provided at all the high pise exposure.	Date: 03/01/2024

	MONITORING AND PRESERVATION	consumption in the steel plant complex by segregation practicing cascade use and by recycling treated water	or used water
 Wate for all 		ng reduced through adoption of local recycling systems (, SMS-3 & BF-8). • The effluents from older units are eatment for re-use as industrial water.	Date: 03/01/2024
39	ENERGY PRESERVATION MEASURES	The project proponent shall provide TRTs to recover top gases of Blast Furnaces	energy from
	Submission: Complied w BF-8, TRTs to recover energy from	top gases of Blast Furnace has been installed.	Date: 04/01/2024
40	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall install 24x7 continuous emonitoring system with respect to standards prescribed Environment (Protection) Rules 1986 vide G.S.R 277 (3ts(March 20I2 {Integrated iron & Steel); G.S.R 414(EMay 2008 (Sponge Iron) as amended from time to time (E) dated 7th December 2015 (Thermal Power Plants) from time to time and connected to SPCB and CPCB of and calibrate these system from time to time according supplier specification through labs recognised under En (Protection) Act 1986 or NABL accredited laboratories	E) dated E) dated 30 E; S.O. 3305 as amended nline servers to equipmen
contin B & C		e been installed for all three plant outlets VIz Outlet-A, B online servers Calibration of the systems is being	Date: 03/01/2024
41	WATER QUALITY MONITORING AND PRESERVATION	Garland drains and collection pits shall be provided f pile to arrest the runoff in the event of heavy rains and water pollution due to surface run off	
Garlar	Submission: Complied and drains and collection pits have been uter pollution due to surface run off	provided at the Raw Material handling area to check	Date: 03/01/2024
42	WATER QUALITY MONITORING AND PRESERVATION	The project Proponent shall monitor regularly ground at least twice a year (pre and post monsoon) at sufficient piezometer /sampling wells in the plant and adjacent at labs recognised under Environment (protection) act, 19 accredited laboratories.	nt numbers of reas through
		decreated incornicis.	
Groun throug		ice a year (pre and post monsoon) in the adjacent areas (protection) act, 1986 and NABL accredited laboratories	Date: 03/01/2024
Groun throug is bein	d water quality monitoring at least twi th labs recognised under Environment	ice a year (pre and post monsoon) in the adjacent areas	03/01/2024
Groun throug is bein 43 PPs A 30 N	d water quality monitoring at least twich labs recognised under Environment ag carried-out WATER QUALITY MONITORING AND PRESERVATION Submission: Complied	ice a year (pre and post monsoon) in the adjacent areas (protection) act, 1986 and NABL accredited laboratories Sewage Treatment Plant shall be provided for treatment	03/01/2024

	PRESERVATION	and manual monitoring of ground water quality to Reg MoEF&CC, Zonal office of CPCB and Regional Offic along with six-monthly monitoring report.	
Month	anual monitoring of ground water quali	ent monitoring and results of manual effluent testing ty reports (October-2021 to March-2022) are enclosed	Date: 03/01/2024
45	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall provide the ETP for coke product to meet the standards prescribed in G.S.R 277 March 2012 (integrated iron & Steel); G-S.R 414 (E)da 2008 (Sponge Iron) as amended from time to time; S.C dated 7e December 2015 (Thermal Power Plants) as artime to time as amended from time to time.	(E) dated 31st ated 30s May 0. 3305 (E)
At BSI		ant has been installed and is working effectively and 7 (E) dated 31st March 2012 (integrated iron & Steel);	Date: 03/01/2024
46	WATER QUALITY MONITORING AND PRESERVATION	Tyre washing facilities shall be provided at the entrargates	nce of the pla
PPs ! Compl	Submission: Complied lied.		Date: 03/01/2024
47	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 b tant. The option of CO2 injection is also	being maintained through addition of Use of Dispersant o being explored.	Date: 03/01/2024
48	WATER QUALITY MONITORING AND PRESERVATION	The project proponent shall practice rainwater harves maximum possible extent	sting to
 At prarea. A Rechange Rain W Institut Towns Hospit two local 	Approx. 71500 m3 rain water is channel arge pits were constructed near 73 exist Vater Harvesting structure were installe te, S.S School Sector-VII & G.S.S School Sector-VII, Sector-3 near all Sector near D-23, Jayanti Stadium) v	ne from the rooftops of Plate Mill & Machine Shop-II ized to Maroda-I reservoir through storm water drains. ting borewell to arrest the over flow /excess water. • d at T A Building, Bhilai Niwas, Bhilai Technical col-V. • 5 Recharge ponds were dug in Bhilai r BTI Hostel, Sector-5 behind Andhra Bhawan, with recharge bore well at middle bottom of pond at 1 lac m3 capacity was made Behind Bhilai Institute of the well at Centre.	Date: 03/01/2024
• At prarea. A • Rech Rain W Institut Towns Hospit two loc	resent rain water harvesting is being don approx. 71500 m3 rain water is channel arge pits were constructed near 73 exist Vater Harvesting structure were installed te, S.S School Sector-VII & G.S.S School Sector-VII & G.S.S School Sector-3 near FSNL, Sector-3 near al Sector near D-23, Jayanti Stadium) vacations. • 1 big recharge pond of about	ized to Maroda-I reservoir through storm water drains. ting borewell to arrest the over flow /excess water. • d at T A Building, Bhilai Niwas, Bhilai Technical col-V. • 5 Recharge ponds were dug in Bhilai r BTI Hostel, Sector-5 behind Andhra Bhawan, with recharge bore well at middle bottom of pond at 1 lac m3 capacity was made Behind Bhilai Institute of	03/01/2024
• At prarea. A • Rech. Rain W Institut Towns Hospit two loc Techno	resent rain water harvesting is being dor approx. 71500 m3 rain water is channel arge pits were constructed near 73 exist vater Harvesting structure were installed te, S.S School Sector-VII & G.S.S School Sector-VII & G.S.S School Sector-3 near FSNL, Sector-3 near all Sector near D-23, Jayanti Stadium) vacations. • 1 big recharge pond of about bology (BIT) near Bhilai House with bor WATER QUALITY MONITORING AND	ized to Maroda-I reservoir through storm water drains. ting borewell to arrest the over flow /excess water. • d at T A Building, Bhilai Niwas, Bhilai Technical col-V. • 5 Recharge ponds were dug in Bhilai r BTI Hostel, Sector-5 behind Andhra Bhawan, with recharge bore well at middle bottom of pond at 1 lac m3 capacity was made Behind Bhilai Institute of re well at Centre. Treated water from ETP of CCIBP shall not be used quenching	03/01/2024

			D :
Regula		ferent locations of township (Market area, schools, evels are meeting the standards (Flag-G)	Date: 03/01/2024
51	Noise Monitoring & Prevention	Noise level survey shall be carried as per the prescrib and report in this regard shall be submitted to Regional Ministry as a part of six-monthly compliance report	
Noise 1	Submission: Complied level survey is being carried as per the ped (Flag-G)	prescribed guidelines and report in this regard is	Date: 03/01/2024
52	ENERGY PRESERVATION MEASURES	Use torpedo ladle for hot metal transfer as far as poss not used, provide covers for open top ladles	sible. If ladle
	Submission: Complied V BF-8, torpedo ladle is being used for h	not metal transfer	Date: 04/01/2024
53	WASTE MANAGEMENT	Tar Sludge and waste oil shall be blended with coal ovens (applicable only to recovery type coke ovens)	charged in co
At BSI treated		charged in coke ovens & waste lubrication oil is being ecycled back after recovery/regeneration. The ers	Date: 04/01/2024
54	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.		ded at Sinter Plants, Coke ovens, Blast Furnaces, Power and in new units under Modernization In future more	Date: 04/01/2024
55	ENERGY PRESERVATION MEASURES	Restrict Gas flaring to < 1%	
	Submission: Complied ied/Noted.,		Date: 04/01/2024
56	ENERGY PRESERVATION MEASURES	Provide solar power generation on roof tops of build light system for all common areas, street lights, parkin project area and maintain the same regularly	
2x100	Submission: Complied Kw solar power generation on roof tops monitoring & recording of the power ge	s of Bhilai Niwas has been installed & provision for eneration has also been developed.	Date: 04/01/2024
		The waste oil, grease and other hazardous waste like from pickling, galvanising chrome plating mills etc. sh	_

The acid		e disposed of as per the Hazardous & Other waste Rules, 2016. Coal tar sludge / decanter is being recyclers.	Date: 04/01/2024
58	WASTE MANAGEMENT	In case of Non-Recovery coke ovens, the gas main gases to the boiler, shall be insulated to conserve heamaximise heat recovery	
	ubmission: Complied BSP the coke ovens are of recovery t	ype.	Date: 04/01/2024
59	WASTE MANAGEMENT	Waste recycling Plant shall be installed to recover and flux for recycling to sinter plant and SMS	scrap, metallic
At BSP	ubmission: Complied recovery of scrap, metallic and flux i fill scales is being recycled to BF & S	s being done. The recovered scrap, iron fines, Lime linter plants.	Date: 04/01/2024
60	WASTE MANAGEMENT	Carbon recovery plant to recover the elemental car GCP slurries for use in Sinter plant shall be installed	-
Presentl generate		a sludge briquetting plant where all the sludges owever BSP will also explore the process of recovery of e.	Date: 04/01/2024
61	WASTE MANAGEMENT	An attrition grinding unit to improve the bulk dens granulated slag from 1.0 to 1.5 Kg/I shall be installe river sand in construction industry	
All the when the		is being supplied to Cement Industry. In future if & ent Industry BSP will offer the slag to construction	Date: 04/01/2024
62	WASTE MANAGEMENT	Kitchen waste shall be composted or converted to luse	piogas for furth
	ubmission: Complied waste is composted and used for Hor	rticulture as manure.	Date: 04/01/2024
63	WASTE MANAGEMENT	SMS slag after metal recovery in waste recycling from conditioned and used for road making, railway hack applications. The project proponent shall install a wafacility to recover metallic and flux for recycle to sin project proponent shall establish linkage for I00% refrom Waste Recycling Plant	ballast and othe ste recycling ter plant. The
At BSP BF as re making Develop alternati suitabili roads. T	eplacement of flux. BSP is also explore, railway ballast & other applications. The properties of the applications of the applications for BOF slag. BSP has the final report submitted in June-202	to different size fractions and recycled back to Sinter & ring methodologies for use of BOF slag for road. We are seeking the services of Centre for Construction for Cement and Building Materials for exploring as given an assignment to NIT-Raipur for assessing the and feasibility of Steel slag in construction of the rural is being shared with all govt & pvt agencies involved mote its use as construction/pavement material. Other	Date: 04/01/2024

maturing rail track Laning I industry Cement Commer in agricu	g of BOF Slag at BSL, Bokaro • Field ballasts at BSL, Bokaro • Supply of A Project of NH-32at WB • Feasibility statement of the Centre for Construction and Building Materials (NCCBM), urce and Industry, Government of India alture through Indian Agricultural Res Graded Asphalt Friction Courses (OCC)	& BF Slag utilization: • Pilot scale project on steam trial on assessing suitability of weathered BOF slag as Air Cooled BF slag for construction of road under Four tudy on suitability of BOF Slag for use in cement Development & Research of National Council for ader the administrative control of Ministry of a, • Study on use of BOF slag as soil ameliorating agent earch Institute (IARI), New Delhi. • Use of steel slag GAFC) through Department of Civil Engineering, IIT	
64	GREENBELT	The project proponent shall prepare GHG emissions the plant and shall submit the programme for reduction including carbon sequestration including plantation.	
BSP mai		& also the emission data is submitted to world steel itment as member under Climate Action	Date: 04/01/2024
65	WASTE MANAGEMENT	100% utilization of fly ash shall be ensured. All the f provided to cement and brick manufacturers for further and Memorandum of Understanding in this regard shal to the Ministry's Regional Office	rutilization
100% ut is very lo	ess as the boilers are run mostly on By	s is being followed at BSP. At BSP fly ash generation y-product gases generated from steel plant operations. used for reclamation of low lying areas within the	Date: 04/01/2024
66	WASTE MANAGEMENT	Oil Collection pits shall be provided in oil cellars to creuse/recycle spilled oil. Oil collection trays shall be provided on saddles in cold rolled coil storage area	
PPs St Being C	abmission: Complied omplied.		Date: 04/01/2024
67	PUBLIC HEARING	Provision shall be made for the housing of constructivithin 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 intemporary structures to be removed after the completic project	ilities such as king water, the form of
	abmission: Complied ed (At BSP major expansion job has al	lready been completed)	Date: 04/01/2024
68	PUBLIC HEARING	Emergency preparedness plan based on the Hazard ic and Risk Assessment (HIRA) and Disaster Manageme implemented	
At BSP identific approved EPP/DM	ation and Risk Assessment (HIRA) ard by Factory Inspector. Regular mock	wn Emergency preparedness plan based on the Hazard and Disaster Management Plan. The documents are drills are organized to check the effectiveness of the k drill review and also based on recommendations after management of BSP	Date: 04/01/2024
69	Corporate Environmental	The project proponent shall comply with the provision	ons contained

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• BSP reply to been d	o the ADS letter dated 02.01.2019. • lelay in completion of the projects. • lely to be completed by March-2024. A	Fall identified CER activities/projects committed in the Due to the prevalence of COVID pandemic there has However, presently the CER projects are progressing well a detailed status report on CER activities enclosed at	Date: 04/01/2024
70	Corporate Environmental Responsibility	Self-environmental audit shall be conducted annually years third party environmental audit shall be carried or	
Enviro	Submission: Complied nmental Audits under EMS:ISO:140 es. The Last Audi was carried-out by	01 are being carried-out every year through external M/s.TUV-Nord in August-2020.	Date: 04/01/2024
71	Corporate Environmental Responsibility	All the recommendations made in the Charter on Cor Responsibility for Environment Protection (CREP) for Steel plants shall be implemented	
PPs S	Submission: Complied ied		Date: 04/01/2024
72	PUBLIC HEARING	Occupational health surveillance of the workers shall regular basis and records maintained as per the Factori	
	Submission: Complied Complied. Occupational health surve	eillance of the workers is being done regularly.	Date: 04/01/2024
73	Corporate Environmental Responsibility	A separate Environmental Cell both at the project and head quarter level, with qualified personnel shall be se control of senior Executive, who will directly to the he organization	t up under the
• BSP : Qualifi departi Directo	ied executive & non-executive person ment is headed by a senior officer of or (works). • At corporate level a sep- corporate level the division is headed	ment with well-equipped laboratory. • Adequate nnel have been posted to the department & Lab • The the rank of General Manger who reports to Executive arate environment management Division has been set-up by Executive Director who reports to Director	Date: 04/01/2024
74	Corporate Environmental Responsibility	The Company shall have a well laid down environmeduly approve by the Board of Directors. The environment should prescribe for standard operating procedures to be checks and balances and to bring into focus any infring deviation/violation of the environmental / forest/wild conditions. The company shall have defined system of infringements/ deviation/violation of the environment wildlife norms/conditions and / or shareholders/stake copy of the board resolution in this regard shall be sub MoEF&CC as a part of six –monthly report	ental policy have proper gements / life norms/ reporting al / forest/ holders. The
	Submission: Complied as well laid down environmental poli	cy duly approve by the Board of Directors. An SOP for	Date: 04/01/2024

is reported to Board along with action plan in the next board meeting. • The Board Meetings are held once every month. • All the Environment & related Clearances & status of compliances are shown on company's 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.

75

GREENBELT

Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant

PPs Submission: Complied

• BSP has planted 4540942 nos of trees in an area covering about 1885 hectares till Sep.-2023. • In the year 2023-24 BSP has been planted 25942Trees. 25650 saplings planted at Township and its surrounding area of Bhilai. Work awarded to C.G. Van Vikas Nigam. • In the year 2022-23(April-March), BSP has planted 21210 trees within the plant premises & township covering an area of about 20-25 hectares. • Further Green belt required to be developed to meet the 33% 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 %.

Date: 04/01/2024

76

PUBLIC HEARING

The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment(PPE) as per the norms of Factory Act

PPs Submission: Complied

National occupation Health Centre (NOHC) set-up at BSP regularly carry out heat stress analysis for the workmen who work in high temperature work zone . All the workmen are mandatorily provided with Personal Protection Equipment(PPE) as per the norms of Factory Act

Date: 04/01/2024

77

MISCELLANEOUS

The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company

PPs Submission: Complied

Complied. The monitoring data is being displayed at the Company's main gate & in a public place/market area located in Township thorugh large electronic Display Boards. The monitored data is also placed in Company's web portal

Date: 04/01/2024

78

MISCELLANEOUS

The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government

PPs Submission: Complied Complied

Date: 04/01/2024

79

MISCELLANEOUS

The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory

PPs Submission: Complied Agreed

Date: 04/01/2024

80

MISCELLANEOUS

The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions

ubmission: Complied		Date: 04/01/2024
MISCELLANEOUS	the stipulated conditions. The project authorities shou	ld extend full
ubmission: Complied		Date: 04/01/2024
MISCELLANEOUS	project proponents to the Heads of local bodies, Pancl Municipal Bodies in addition to the relevant offices o	hayats and f the
ubmission: Complied		Date: 04/01/2024
MISCELLANEOUS	stipulated environment clearance conditions, includin	g results of
ubmission: Complied		Date: 04/01/2024
MISCELLANEOUS	status of the compliance of the stipulated environmen	tal conditions
ubmission: Complied		Date: 04/01/2024
MISCELLANEOUS	each financial year in Form-Y lo the concerned State Control Board as prescribed under the Environment (Pollution Protection)
ubmission: Complied		Date: 04/01/2024
MISCELLANEOUS	the Ministry, the date of financial closure and final ap project by the concerned authorities, commencing the	proval of the land
ubmission: Complied		Date: 04/01/2024
MISCELLANEOUS		nitment made
	MISCELLANEOUS MISCELLANEOUS	MISCELLANEOUS The Regional Office of this Ministry shall monitor of the stipulated conditions. The project authorities shou cooperation to the officer(s) of the Regional Office by requisite data' information/ monitoring reports The copies of the environmental clearance shall be project proponents to the Heads of local bodies, Panel Municipal Bodies in addition to the relevant offices of Government who in turn has to display the same for 3 date of receipt The project proponent shall upload the status of constipulated environment clearance conditions, including monitored data on their website and update the same of the status of the compliance of the stipulated environment on the website of the ministry of Environment, Forest Change at environment clearance portal The project proponent shall submit six-monthly reputatus of the compliance of the stipulated environment on the website of the ministry of Environment, Forest Change at environment clearance portal The project proponent shall submit the environment cach financial year in Form-Y lo the concerned State Control Board as prescribed under the Environment (Rules, 1986, as amended subsequently and put on the company The project proponent shall inform the Regional Of the Ministry, the date of financial closure and final approject by the concerned authorities, commencing the development work and start of production operation by the concerned shall abide by all the commit recommendations made in the EIA/EMP report commended and the project proponent shall abide by all the commit recommendations made in the EIA/EMP report commendations made in the EIA/EMP

		Expert Appraisal Committee	
PPs Submission: Complied Complied			Date: 04/01/2024
88	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and climate Change (MoEF&CC)	
PPs Submission: Complied Will be Complied/agreed			Date: 04/01/2024
89	MISCELLANEOUS	Concealing factual data or submission of false /fabricated data mare result in revocation of this environmental clearance and attract action under the provisions of Environment(Protection) Act, 1986	
PPs Submission: Complied Agreed			Date: 04/01/2024
90	MISCELLANEOUS	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Corof India / High Counts and any other Court of Law relating to the subject matter	
PPs Submission: Complied Agreed			Date: 04/01/202
91	Corporate Environmental Responsibility	Action plan for implementing EMP and environmental along with responsibility matrix of the company shall shall be duly approved by competent authority. The yearmarked for environmental protection measures shall separate account and not to be diverted for any other pwise progress of implementation of, action plan shall the Ministry/Regional Office along with the Six Mont Compliance Report.	be prepared a ear wise fund I be kept in urpose. Year be reported to
PPs Submission: Complied Complied. A detailed action plan for implementation of EMPs along allocation of funds has been prepared progress is being monitored on regular basis. Copy of the progress of implementation of action plan is enclosed Flag-H		Date: 03/07/202	
92	MISCELLANEOUS	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising is at least in two local newspapers of the District or State, of which or shall be in the vernacular language within seven days and in additional this shall also be displayed in the project proponent's website permanently	
	Submission: Complied	d to BSP has been placed in the web portal of SAIL.	Date: 04/01/202

Visit Remarks				
Last Site Visit Report Date:	N/A			
Additional Remarks:				