MOM, CHIRIA

Ref. No. MOM/PC/6/240

Date: 25.11.2023.

To,

The Dy. Director General of Forest (C)

Regional Office

Ministry of Environment, Forest and Climate Change

2nd Floor, Headquarter - Jharkhand State Housing Board,

Harmu Chowk,

Ranchi - 834 002.

Sub: Six Monthly Compliance of the Conditions Stipulated in Environmental Clearance of Sukri-Luturburu Mining project for the period April-2023 to September-2023 of M/s SAIL.

Sir,

We are hereby submitting status of compliance for the above period up to 30th September-2023 to the conditions stipulated in the Environmental Clearance granted by MoEF vide No:J-11015/247/2009-IA.II(M), Dated: 10th June, 2013 in respect of Sukri-Luturburu Mining project of Manoharpur Ore Mines of M/s SAIL for production of 0.75MTPA of Iron ore.

It may please be noted that mine is not in operation since 22.03.2009 for want of Stage II Forestry Clearance.

Thanking you.

Yours faithfully, For, Steel Authority of India Ltd.

(Kamal Bhasker)

Chief General Manager (Mines) Manoharpur Ore Mines, Chiria Bokaro Steel Plant (BSL), SAIL

Copy to:

- 1. Director, IA, MoEF&CC, GOI, Indira Paryavaran Bhavan, Aliganj, JorBagh Road, New Delhi 110 003.
- 2. Member Secretary, JSPCB, HEC, Dhurwa, Ranchi 834 004.
- 3. In-charge, Eastern Zone, CPCB, Southern Conclave, Block 502,5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata 700 107 (W. B.)

Chiria Office: MOM Chiria, Po.-Ps: Chiria, W. Singhbhum, Jharkhand-833106, E-MAIL: momchiria@gmail.com, momperschiria@gamil.com

Head Office: Addm. Building, Bokaro Steel Plant, Bokaro City, Jharkhand - 827001

Regd. Office: Ispat Bhawan, Lodhi Road, New Delhi-110003, Phone: +91-11-2436-7481 (14 Lines), Fax: 24367015

हर किसी की जिन्दगी से जुड़ा हुआ है सेल

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

Status of Compliance to Conditions Stipulated in Environmental Clearance granted

by

MoEFCC

Vide Order No: J-11015/247/2009-IA. II(M),

Dated: 10th June, 2013 for 0.75 MTPA

Of Sukri Luturburu Iron Ore Mining Project

(Period: April' 2023 to September' 2023)



STEEL AUTHORITY OF INDIA LIMITED

BOKARO STEEL PLANT (BSL) MANOHARPUR ORE MINES P.O. – CHIRIA, PIN: 833106

DIST. : SINGHBHUM (WEST)

JHARKHAND STATE



Environment Clearance letter No: J-11015/247/2009-IA. II(M), Dated: 10th June, 2013 of Sukri Luturburu Iron Ore Mining project for production of 0.75 MTPA (ROM) of Iron ore.

Half yearly compliance report for the period: April-2023 to September-2023

A. Specific Condition

Sl. No.	Condition	Compliance Status as on September' 2023
i	The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board and	Consent to Establishment was obtained from Jharkhand State Pollution Control Board for a capacity of 0.75 MPTA, vide
	effectively implement all the conditions	letter Ref. no: PC/NOC/JSR/333/09-G-1819,
	stipulated therein.	dated: 2.05.2014.
ii	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.	Noted.
iii	Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to the project.	Not Applicable
iv	Environmental clearance has been accorded to the broken up granted of 33.40 ha forest land for which for which forestry clearance has been granted. No mining activity will be allowed in forest area for which the Forest Clearance is not available.	Stage-1 Forest Clearance was obtained vide letter Ref: F.No.8-70/2009-FC, dated: 09.03.2011. Stage-01 conditions compliances submitted & Final Clearance is awaited.
V	The project proponent will seek and obtain approval under the FC Act, 1980 for diversion of the entire forest land located within the mining lease within a period of two years from 01.02.2013 i.e. the date of issue of guidelines by FC vide there letter F.NO.11-362/2012-FC, failing which the mining lease area will be reduced to the non forest area plus the forest area for which the project proponent has been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, the project proponent will need to get a revised mining Plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be constructed to be available for the mining lease area as per the revised mining lease deed.	Not Applicable



Sl. No.	Condition	Compliance Status as on September' 2023
vi	The Mining operations shall be restricted to above the groundwater table and it should not intersect the groundwater table. In case of working below the groundwater table, prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.	Water table level at our mining lease area is about 400 m AMSL and ultimate depth of our proposed workings will be above 645 m AMSL. Hence there is no possibility for intersecting of Mine workings with the ground water table. Due to any reason it is required to work below the groundwater table, we will obtain prior approval of the Ministry of Environment and Forests and the Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study will be carried out.
vii	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. The first order streams and the seasonal nallahs originating from the mining lease area shall be protected.	No working during April-2023 to September-2023. Proper Precautions will be taken to avoid obstructions to Natural water resources by providing drains and bounds etc. at required places during operations period.
viii	The top soil, if any shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.	No working during April-2023 to September-2023. After starting operations, the top soil will be temporarily stored at earmarked site. The stored top soil will be used in plantation works.
ix	The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and their phase-wise stabilization shall be carried out. The maximum height of the dump shall be 30m in three terraces of 10 m each so that the overall slope should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textile shall be undertaken for stabilization of the dump. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustained. Compliance status shall be submitted to the MoEF and its Regional Office	No working during April-2023 to September-2023. After starting operations the over burden (OB) generated during the mining operations will be stored at earmarked site. Phase-wise stabilization will be carried out. Six monthly Compliance Status is being submitted to Ministry of Environment & Forests and Climate Change and its Regional Office located at Ranchi.



Sl. No.	Condition	Compliance Status as on September' 2023
X	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working soil, mineral and OB dump(s) to prevent run off of water and flow of sediments directly into the Hamsadagaar Nallah, the Koina River, the seasonal nallahs and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de-silted particularly after the monsoon and maintained properly.	No working during April-2023 to September-2023. After starting operations, Repair of old Retaining wall, Garland drain, siltation pond and construction of new Retaining wall at required places will be carried out.
xi	Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be constructed around the mine pit, soil, mineral and over burden dumps to prevent run off of water and flow of sediments directly into the Hamsadagaar Nalla, the Koina River, the seasonal nallahs and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper settling of silt material. Sedimentation pits shall be constructed at the corners of the garland drains and de-silted at regular intervals.	No working during April-2023 to September-2023. After starting operations, repair of old Garland drains, siltation tanks, check Dams and construction of new Retaining wall Garland drains, setting tanks and check dams at required places will be carried out.
xii	Dimension of the retaining wall at the toe of the over burden dumps and the OB benches within the mine to check run-off and siltation shall be based on the rain fall data.	No working during April-2023 to September-2023. Dimension of the retaining wall and check dams will be designed based on the rainfall data.
xiii	The void left unfilled in an area of 5ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.	No working during April-2023 to September-2023.



Sl. No.	Condition	Compliance Status as on September' 2023
		 After exploitation of the ore or During Mine closure the following activities steps will be taken for the use of public, 1. The slope of higher benches shall be made gentler and void area 5 ha will be converted into water body. 2. Plantation will be done to stabilize the slopes. 3. Peripheral fencing will be carried out all along the excavated area.
xiv	Plantation shall be raised in an area of 225.755 ha including a 7.5 m wide green belt in the	No working during April-2023 to September-2023.
	safety zone around the mining lease, over burden dumps, mine benches, around water body, along the roads etc. by planting the native species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.	Greenbelt will be developed all along the mine lease area in a phased manner and shall be completed within first five years after the start of mining operations.
xv	Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	No working during April-2023 to September-2023. Regular water sprinkling will be done on haul roads, loading and unloading point and all transfer points during operation period.
xvi	The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.	As the mine pits are located at the hill top, all the surface runoff from the mining areas have been diverted to mine pits, from where it seeps in to the ground. Check bunds, Garland drains and siltation
		pond has been constructed to control surface runoff.
xvii	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and installing new piezometers during the mining operation. The periodic	Network of 6 nos. of existing Dug Wells located around the mines have been selected for ground water level monitoring. Ground water table levels at the selected wells are being monitored at regular



Sl. No.	Condition	Compliance Status as on September' 2023		
	monitoring (at least four times on a year-pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January); once in each season shall be carried out in consultation with the State Ground	intervals i.e. 4 times in a year. The Range of water levels during Monsoon (May-2023) and Monso (August-2023) is as follows,		
	Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forest and its Regional Office Bhubaneswar, the Central Ground Water Authority and the	ID	Location	Water level below the Ground Surface (in meters)
	Regional Director, Central Ground Water Board. If at any stage, it is observed that the	G1	Adjacent to community centre at Anqua	3.60- 7.00
	groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	G2	Opposite to community centre at Angua	3.85-7.40
		G3	Near Anqua Model Steel Village Gate	1.15-2.70
		G4	Siva Mandir	3.10-3.50
		G5	Near CNI Church	4.15-7.65
		G6	Near Bishra Chowk	1.45-1.90
		Villag moni a yea Moni Surfa Centr Groud levels Mons photo	toring data of Groundwa ce water quality is being ral ground Water Authorit nd Water Board, Ranchi. during Pre Monsoon (N soon (August-2023) and ograph is placed in Anne	ater level and submitted to ty and Central Ground water lay-2023) and depictory piezometer exure – 1.
xviii	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained.	Regul	working during Apember-2023. Ilar monitoring of flow rate reennial nalla i.e. Hamsaleing done and records tained.	dagaar Nalla,
xix	Regular monitoring of water quality upstream and downstream of the Hamsadagaar Nalla shall be carried out and record of monitored	Water	quality monitoring at bo lownstream of Hamsada done on quarterly basis	gaar Nalla is



Sl. No.	Condition	Compliance Status as on September' 2023			
	date should be maintained and submitted to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the Central Groundwater Authority, the State Pollution Control Board and the Central Pollution Control Board.	Groundwater Authority, the State Pollution Control Board and the Central Pollution Control Board. The Range of upstream and downstream			hange, it's Central Pollution Pollution
		Parameter	Unit	Up-stream	Down-
				-	stream
		рН	-	7.50-8.12	7.65-8.15
		Temperature	°C	26.90-31.10	26.80-31.30
		Turbidity	NTU	2.58-3.40	2.60-3.75
		Conductivity	սS/cm	120.2-141.6	113.4-146.8
		DO	Mg/l	7.94-8.75	7.60-8.50
		TDS	Mg/l	60.10-76.80	56.70-73.40
		Water quality Monitoring data is being submitted to Central ground Water Authority and Central Ground Water Board, Ranchi. Water quality data is attached in Annexure – 2.			nd Water ater Board,
xx	The Project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) required for the project.	Permission obtained from Water Resource Department, Govt. of Jharkhand and agreement has been made with Water Ways Division, Chaibasa for drawl of water from Hamsadagara Nalla to the tune of 0.62 MCM per annum for Manoharpur Ore Mines, Chiria, with validity up to			nand and ith Water of water une of 0.62 arpur Ore
xxi	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	all the surface runoff from the mining areas have been diverted to mine pits, from where			
xxii	Appropriate mitigative measures shall be taken to prevent pollution of the Koina River in consultation with the State Pollution Control Board.	constructed to control surface runoff. No working during April-2023 to September-2023. As the mine pits are located at the hill top, all the surface runoff from the mining areas have been diverted to mine pits, from where it seeps in to the ground.			



Sl. No.	Condition	Compliance Status as on September' 2023
		Comprehensive Catchment Area Treatment (CAT) Plan for Saranda Forest area fed by Karo & Koina river system (which includes Gua & Chiria mines of SAIL) was approved by PCCF (HoFF), GoJ on 01.02.2022 with total financial outlay of Rs. 12286.307 lakh (all mines located in Saranda) to be utilized for execution of different work items. Accordingly, DFO, Saranda vide letter dated 28.11.2022 directed to deposit an amount of Rs. 5.43 crores for all leases of Manoharpur Ore Mines (including Dhobil lease) which was deposited by SAIL on 29.11.2022 towards implementation of recommendation related to Bioconservation, Eco-restoration & Infrastructures as per approved CAT Plan.
xxiii	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	No working during April-2023 to September-2023. Will be followed during operation.
xxiv	No blasting shall be carried out after the Sunset; Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	No working during April-2023 to September-2023. Will be followed during operation.
XXV	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to the Ministry of Environment and Forests and its Regional Office located at Bhubaneswar.	The entire mine lease is in Ankua RF of Saranda Reserve Forest. Land use and land cover map of Sukri – Luturburu lease area have been developed by Department of Mining Engineering Indian Institute of Technology (Indian School of Mines) Dhanbad as on 31.03.2021 and Land use pattern of the lease area is as follows,



Sl. No.	Condition	Compliance Status as on September' 2023		
		LU/LC classes	Area (ha)	
		Mine lease Boundary	609.504	
		Dense forest	501.713	
		Open forest	77.971	
		Built-up area Mining	9.619	
		Built-up area non mining	-	
		Waste Land	20.105	
xxvi	Drills shall either be operated with dust	No working during	April-2023 to	
	extractors or equipped with water injection	September-2023.		
	system.	Will be followed during ope	ration.	
xxvii	Mineral handling area shall be provided with		April-2023 to	
70.011	adequate number of high efficiency dust	September-2023.	7. p =0=0	
	extraction system. Loading and unloading			
	areas including all the transfer points should	Will be followed during open	ration.	
	also have efficient dust control arrangements.			
	These should be properly maintained and			
	operated.			
xxviii	Sewage treatment plant shall be installed for	Septic Tanks with soaking	pits have been	
	the colony. ETP shall also be provided for the	provided for the various a	ccommodations.	
	workshop and wastewater generated during	Septic Tank & Soaking	Pits are being	
	the mining operation.	cleaned regularly and maint	ained.	
		However, Vehicle washing	facility with Oil	
		grease traps was provided at Chiria general		
		office for vehicles.	ar comment general	
xxix	Pre-placement medical examination and	Pre-placement medical ex	amination and	
	periodical medical examination of the workers	periodical medical examir	ation is being	
	engaged in the project shall be carried out and	carried out and records main	ntained.	
	records maintained. For the purpose, schedule			
	of health examination of the workers should			
	be drawn and followed accordingly.			
XXX	The project proponent shall take all	All precautions are unde		
	precautionary measures during mining	disturb the flora and faun	J	
	operation for conservation and protection of	lease area. Necessary fac	_	
	endangered fauna namely elephant, sloth	extended to local forest		
	bear, Indian wolf, python etc. spotted in the	their inspection and moni	toring of forest	
	study area. Action plan for conservation of	area.		
	flora and fauna shall be prepared and	IWLMP for West Singhbl	num District of	
	implemented in consultation with the State	Jharkhand was prepared	by an Expert	
	Forest and wildlife Department. Necessary	Committee constituted by	the State Govt.	
	allocation of funds for implementation of the conservation plan shall be made and the funds	vide notification dated 27.0	8.2011. SAIL was	
	so allocated shall be included in the project	assigned responsibility for	institutionalizing	
	30 anocated shall be included in the project	and funding the study. After	er submission of	



Sl. No.	Condition	Compliance Status as on September' 2023
Si. No.	cost. All the safeguard measures brought out in the wildlife Conservation Plan so prepared specific to the project site shall be effectively implemented. A copy of action plan shall be submitted to the Ministry of Environment and Forests and its Regional Office, Bhubaneswar.	report on IWLMP by the Committee, GoJ vide letter dated 19.09.2014 forwarded to MoEFCC, GoI. MoEFCC vide order dated 26.08.2014 constituted a Multi-Disciplinary Expert Committee (MDEC) to examine IWLMP. IWLMP was again refined and revised IWLMP was finally submitted by the Expert Committee to GoJ and MoEFCC, GoI on 10.03.2016.Final IWLMP was appraised in 45th meeting of Standing Committee of
		National Board for Wildlife on 04.09.2017 wherein the committee appreciated the IWLMP. MPSM was approved by MoEFCC on 08.06.2018 wherein it has been stated that the prescription of IWLMP prepared and approved by the State Wildlife Authority, National Board of Wildlife (NBWL) and Project Elephant (PE) of MoEFCC must be followed. IWLMP was presented before GoJ on 29.10.2018. Further the compliance of the observations pointed was submitted by SAIL to GoJ on 01.02.2019. Further, GoJ vide letter dated 30.04.2019 raised certain queries, which was replied on 31.05.2019.
		IWLMP is pending with GoJ for approval. Realization of money towards implementation of IWLMP shall be collected from lease holders. SAIL has submitted an undertaking to abide by the guidelines and contribute fund for implementation of IWLMP on prorate basis.
xxxi	The entire mining lease area shall be fenced by erecting solar powered electric fencing all round it. The fencing so erected shall be maintained properly and the cost towards erection and maintenance of the solar powered electric fencing shall be borne by the project proponent out of the project cost.	As the project area falls within the RF, the matter has been discussed with forest officials. State Forest Department officials are of the opinion that Solar fencing may obstruct/ effect the movement of wild life animals. Accordingly, the matter is being discussed with DFO, Saranda Division and a request letter has been submitted to DFO, Saranda on 03.05.2018,15.01.2022 and 24.03.2023.



Sl. No.	Condition	Compliance Status as on September' 2023		
		Based on the opinion of the State Forest		
		Department, action will be taken for		
		compliance of the condition.		
xxxii	No transportation of ore outside the mine	No working during April-2023 to		
	lease area shall be carried out after the	September-2023.		
	sunset.	Will be followed during operation.		
xxxiii	The critical parameters such as RSPM	No working during April-2023 to		
	(Particulate matter with size less than 10 um	September-2023.		
	i.e. PM10) and NOx in the ambient air within	·		
	the impact zone, peak particle velocity at	Will be followed during operation.		
	300m distance or within the nearest			
	habitation, whichever is loser shall be			
	monitored periodically. Further, quality of			
	discharged water shall also be monitored			
	(TDS, DO, PH and Total Suspended Solids			
	(TSS). The monitored data shall be uploaded			
	on the website of the company as well as			
	displayed on a display board at the project site			
	at a suitable location near the main gate of the			
	Company in public domain. The Circular No. J-			
	20012/1/2006-IA (M) dated 27.05.2009 issued			
	by Ministry of Environment and Forests, which			
	is available on the website of the Ministry www.envfor.nic.in shall also be referred in this			
	regard for its compliance.			
xxxiv	A Final Mine Closure Plan along with details of	Not Applicable at present. Final Mine		
AAAIV	Corpus Fund should be submitted to the	closure plan along with the fund details will		
	Ministry of Environment & Forests 5 years in	be submitted to the ministry 5 years		
	advance of final mine closure for approval.	advance.		



B. General Conditions

Sl. No.	Condition	Compliance Status as on September' 2023
i	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	No working during April-2023 to September-2023. Will be followed during operation.
ii	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	No working during April-2023 to September-2023.
iii	Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10um i.e. PM10) and NOx monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Will be followed during operation.
iv	Data on ambient air quality RSPM (Particulate matter with size less than 10um i.e., PM10) & NOx should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Bhubaneswar and the State Pollution Control Board/Central Pollution Control Board once in six months.	No working during April-2023 to September-2023.
V	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	No working during April-2023 to September-2023.
Vİ	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs.	No working during April-2023 to September-2023.
vii	Industrial waste water (Workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422(E) dated 19 th May, 1993 and 31 st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	Will be followed during operation.



Sl. No.	Condition	Compliance Status as o	on September' 2023
viii	Personnel working in dusty areas should wear	No working during	g April-2023 to
	protective respiratory devices and they should	September-2023.	
	also be provided with adequate training and		
	information on safety and health aspects.		
	Occupational health surveillance program of the		
	workers should be undertaken periodically to		
	observe any contractions due to exposure to		
ix	dust and take corrective measures, if needed. A separate environmental management cell	A full-fledged Environi	mant Managamant
12	with suitable qualified personnel should be set- up under the control of a Senior Executive who	Cell (EMC) has been eafter environment asp	established to look bects headed by an
	will report directly to the Head of the	experienced engineer	
	Organization.	years' experience environment in the r	
		directly reports Head	
		In addition to the EMC	
		Environment & leas Rourkela Steel Plan	
		qualified person	(M. Tech in
			gineering) and
		experience environr	•
		who facilitate all the	_
		MOM, Chiria mines i	_
		and maintained of	= -
		measures.	
Х	The funds earmarked for environmental	There will be sepa	arate budget for
	protection measures should be kept in separate	Environment & Lease	e department. The
	account and should not be diverted for other	allocated budget will I	be exclusively used
	purpose. Year wise expenditure should be	for Environment & Lea	ise expenses only.
	reported to the Ministry of Environment and Forests and its Regional Office located at	Year wise expenditu	re from 2013 on
	Bhubaneswar.	Environmental protect	tion measures is as
	Bridderieswari	furnished below:-	
			proximate Expenditu
			00 Lakhs
			70 Lakhs
			60 Lakhs
			02 Lakhs
			84 Lakhs 54 Lakhs
			45Lakhs
			67 Lakhs
			82 Lakhs
			97 Lakhs



SI. No.	Condition	Compliance Status as on September' 2023
xi	The project authorities should inform to The Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Will be followed.
xii	The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite date/information/monitoring reports.	Full co-operation is extended to the officers of the Regional Office, MoEF & CC, Bhubaneswar / Ranchi, by furnishing the requisite data / information / monitoring reports.
xiii	The project proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored date (both in hard copies as well as by e-main) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, The respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the EC conditions, including results of monitored date on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment & Forests, Bhubaneswar, the respective Zonal Office of CPCB & SPCB.	Six monthly compliance reports on the status of implementation of environmental safeguards are being submitted to MoEF & CC, New Delhi, Regional Office — MoEF & CC, Ranchi, Central Pollution Control Board and State Pollution Control Board. Copy of the compliance report including environmental quality data is being uploaded to the SAIL web site i.e. www.sail.co.in.
xiv	A copy of the clearance letter shall be sent by the proponent to concerned panchayat, Zila Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any from whom suggestions/representations, if any were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	The copy of Clearance letter was notified in the public places. The clearance letter has been put on the Company website.
XV	The State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industry Centre and the Collector's office / Tehsildar's office for 30 days.	



SI. No.	Condition	Compliance Status as on September' 2023				
xvi	The environmental statement for each financial	· · · · · · · · · · · · · · · · · · ·				
	year ending 31 st March in Form-V as is	financial year 2022-23 ending 31 st				
i i	mandated to be submitted by the project					
	proponent to the concerned State Pollution	the Jharkhand State Pollution Control				
	Control Board as prescribed under the	Board vide reference No:				
	Environment (Protection) Rules, 1986, as	MOM/PC/6/198, dated: 26-04-2023.				
	amended subsequently, shall also be put on the					
	website of the company along with the status of					
	compliance of environmental clearance					
	conditions and shall also be sent to the Regional					
	office of the Ministry of Environment and	\tag{2}				
	Forests, Bhubaneswar by e-mail.					
xvii	The project authorities should advertise at least	Advertisement was given in two local				
	in two local newspapers of the District or State	newspapers Hindustan times (English)				
	in the project is located and widely circulated,	and Dainik Jagaran (Local Language				
	one of which shall be in the vernacular	Hindi) within 7 days of the issue of the				
	language of the locality concerned, within 7	clearance letter.				
	days of the issue of the clearance letter					
	informing that the project has been accorded					
-	environmental clearance and a copy of the					
=	clearance letter is available with the State					
	Pollution Control Board and also at web site of	in the				
	the Ministry of Environment and Forests at					
	http://envfor.nic.in and a copy of the same					
	should be forwarded to the Regional Office of	***				
	this Ministry located at Bhubaneswar.					

(Kamal Bhasker)

Chief General Manager (Mines) Manoharpur Ore Mines, Chiria



Annexure – 1

GROUND WATER LEVEL MEASUREMENTS

A. Ground Water levels in and around the Mines

Location		Water level below the Ground Surface (in meters)						
ID	Location of Open Wells	During Pre-Monsoon (May-2023)	During Monsoon (August-2023)					
G1	Adjacent to community centre at Anqua	7.00	3.60					
G2	Opposite to community centre at Angua	7.40	3.85					
G3	Near Anqua Model Steel Village Gate	2.70	1.15					
G4	Siva Mandir	3.50	3.10					
G5	Near CNI Church	7.65	4.15					
G6	Near Bishra Chowk	1.90	1.45					

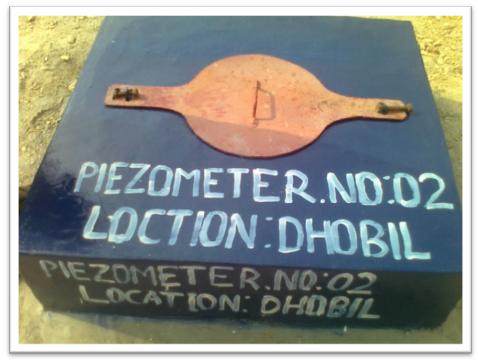
		Water level below the Ground Surface (in meters)				
Sl. No.	Location of Piezometer	During Pre-Monsoon (May-2023)	During Monsoon (August-2023)			
1	Chiria Village	4.33	3.65			
2	Dhobil Village	3.70	3.55			



Annexure-1



1. Piezometer at Chiria Village



2. Piezometer at Dhobil Village



Annexure-2

WATER QUALITY OF HAMSADAGARA NALLA (Period: April-2023 to September-2023)

Location - Upstream of Hamsadagara Nalla									
S. No.	Parameter	Unit	Standards as per IS: 2296-1982	Apl	May	Jun	July	Aug	Sep
1	рН	-	6.5 - 8.5	7.72	7.5	7.68	7.73	7.83	8.12
2	Temperature	°C	-	22.3	30.2	31.1	30.6	26.9	27
3	Turbidity	NTU	-	2.55	2.58	2.65	2.7	2.79	3.4
4	Conductivity	μS/cm	-	133.8	120.2	128	138.5	140.8	141.6
5	DO	Mg/l	-	8.85	8.75	8.52	8.33	8.45	7.94
6	TDS	Mg/l	500	65.9	60.1	64	69.1	70.4	76.8

Location -Downstream of Hamsadagara Nalla									
S. No.	Parameter	Unit	Standards as per IS: 2296-1982	Apl	May	Jun	July	Aug	Sep
1	рН	-	6.5 - 8.5	7.86	7.65	7.79	7.85	7.75	8.15
2	Temperature	°C	-	22.8	30.4	31.3	30.8	26.8	27.5
3	Turbidity	NTU	-	2.59	2.6	2.68	2.75	2.72	3.75
4	Conductivity	μS/cm	-	122	113.4	121	130.2	136.6	146.8
5	DO	Mg/l	-	8.7	8.5	8.42	8.25	8.5	7.6
6	TDS	Mg/l	500	61.5	56.7	61.5	65.1	68.3	73.4