

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड STEEL AUTHORITY OF INDIA LIMITED बोकारो इस्पात संयंत्र

BOKARO STEEL PLANT एम.ओ.एम., चिड़िया MOM, CHIRIA

Ref. No. MOM/PC/6/187

Date: 28.11.2022

To.

Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change Integrated Regional Office (ECZ) 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-2022 to September-2022 of M/s SAIL.

Sir,

We are hereby submitting status of compliance for the above period up to 30th September-2022 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

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' 2022 to september' 2022)



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-2022 to September-2022

A. Specific Condition

Sl. No.	Condition	Compliance Status as on Sept -2022
i	The project proponent shall obtain Consent to	Consent to Establishment was obtained
	Establish and Consent to Operate from the	from Jharkhand State Pollution Control
	Jharkhand State Pollution Control Board and	Board for a capacity of 0.75 MPTA, vide
	effectively implement all the conditions	letter Ref. no: PC/NOC/JSR/333/09-G-
	stipulated therein.	1819,dated: 2.05.2014.
ii	Environmental clearance is subject to final	Noted.
	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.	
iii	Environmental clearance is subject to	Not Applicable
	obtaining clearance under the Wildlife	
	(Protection) Act, 1972 from the competent	
	authority, as may be applicable to the project.	
iv	Environmental clearance has been accorded	Stage-1 Forest Clearance was obtained vide
	to the broken up granted of 33.40 ha forest	letter Ref: F.No.8-70/2009-FC, dated:
	land for which for which forestry clearance	09.03.2011. Stage-01 conditions
	has been granted. No mining activity will be	compliances submitted & Final Clearance is
	allowed in forest area for which the Forest	awaited.
	Clearance is not available.	
V	The project proponent will seek and obtain	Not Applicable
	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.	



Sl. No.	Condition	Compliance Status as on Sept -2022
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 April-2022 to September-2022. 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-2022 to September-2022 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 Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.	No working during April-2022 to September-2022 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 Sept -2022
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-2022 to September-2022. 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-2022 to September-2022. 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-2022 to September-2022. 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	No working during April-2022 to September-2022. After exploitation of the ore or During Mine closure the following activities steps will be taken for the use of public,



SI. No.	Condition	Compliance Status as on Sept -2022
	excavated area.	 The slope of higher benches shall be made gentler and void area 5 ha will be converted into water body. Plantation will be done to stabilize the slopes. 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 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.	No working April-2022 to September-2022. 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-2022 to September-2022. 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 monitoring (at least four times on a year-premonsoon (April-May), monsoon (August), post-monsoon (November) and winter	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 intervals i.e. 4 times in a year. The Range of water levels during Pre



Sl. No.	Condition	Compliance Status as on Sept -2022		
	(January); once in each season shall be carried		Monsoon (May-2022) and during Monsoo	
	out in consultation with the State Ground Water Board/Central Ground Water Authority	(Augu	ust-2022) is as follows,	
	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 Surfa (in meters)
	Regional Director, Central Ground Water Board. If at any stage, it is observed that the	G1	Adjacent to community centre at Angua	6.50- 3.70
	groundwater table is getting depleted due to the mining activity; necessary corrective	G2	Opposite to community centre at Anqua	6.60-3.90
	measures shall be carried out.	G3	Near Anqua Model Steel Village Gate	2.55-1.10
		G4	Siva Mandir	3.70-3.00
		G5 G6	Near CNI Church Near Bishra Chowk	7.60-4.10 1.85-1.50
		Villag moni a yea Grou (May 2022) in An	nd water levels during P -2022) and during Monso) and piezometer photogra nexure – 1.	I are being e. 4 times in re Monsoon oon (August- aph is placed
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.	Septe Regu the p is be	working during Apriember-2022. Ilar monitoring of flow rate erennial nalla i.e. Hamsadeing done and records tained.	of water at agaar Nalla,
xix	Regular monitoring of water quality upstream and downstream of the Hamsadagaar Nalla shall be carried out and record of monitored 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.	and obeing are Environment Region Ground Control	r quality monitoring at bot lownstream of Hamsadag done on quarterly basis being submitting to Nonment, Forest & Climate nal Office, Ranchi, the ndwater Authority, the Sta ol Board and the Centra ol Board.	aar Nalla is and results Ministry of Change, it's ne Central te Pollution



SI. No.	Condition	Complia	nce Stat	us as on Sep	ot -2022
		_	=		downstream
		Parameters as follows-	during	April to Sep	tember-22 is
		as follows-			
		Parameter	Unit	Up-stream	Down-stream
		рН	-	7.85-8.40	7.66-8.50
		Temperature	оС	26.3-30.7	26.2-30.5
		Turbidity	NTU	2.50-3.10	2.25-2.77
		Conductivity	μS/cm	126.1-	
				186.0	112.8-171.0
		DO	Mg/l	7.80-8.80	7.95-8.85
		TDS	Mg/l	68.2-93.5	55.4-85.5
		Water qual	ity data i	s attached i	n Annexure –
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.	Departmen agreement Ways Divis drawl of w the tune	t, Govt has be ion, Chai ater fror of 0.62	Of Jhai een made basa on 03 n Hamsadag	ter Resource rkhand and with Water .08.2017, for gara Nalla to annum for
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 surf have been it seeps ir Garland dr	ace runo diverted n to the ains and	ff from the to mine pits ground. (t the hill top, mining areas s, from where Check bunds, and has been runoff.
xxii	Appropriate mitigative measures shall be taken to prevent pollution of the Koina River in consultation with the State Pollution Control Board.	all the surf	-2022. e pits ar ace runo diverted	e located at ff from the to mine pits	t the hill top, mining areas s, from where
		Pollution (Retaining v	Control I	Board durir ck dams, g	rkhand State ng site visits arland drains rent pollution



SI. No.	Condition	Compliance Status as on Sept -2022	
		of water bodies .	
		CAT Plan has been approved Jharkhand	
		State Forest Dept. on 01.2.2022. The CAT	
		structures suggested by IIT KGP shall be	
		implemented in consultation with the	j
vodii	Vahigular amissions shall be kent under	SPCB / Sate Forest Dept.	+-
xxiii	Vehicular emissions shall be kept under control and regularly monitored. Measures	No working during April-2022 September-2022.	to
	shall be taken for maintenance of vehicles	September-2022.	
	used in mining operations and in		
	transportation of mineral from mine face to	Will be followed during operation.	
	the beneficiation plant. The vehicles shall be		
	covered with a tarpaulin and shall not be		
	overloaded.		
xxiv	No blasting shall be carried out after the	No working during April-2022	to
	Sunset; Blasting operation shall be carried out	September-2022.	
	only during the daytime. Controlled blasting		
	shall be practiced. The mitigative measures for	Will be followed during operation.	
	control of ground vibrations and to arrest fly	-	
V001	rocks and boulders should be implemented.	The entire mine lease is in Ankua RF	o.f
XXV	Digital processing of the entire lease area using remote sensing technique should be done	Saranda Reserve Forest.	Oi
	regularly once in three years for monitoring		
	land use pattern and report submitted to the	Land use and land cover map of Sukri	
	Ministry of Environment and Forests and its	Luturburu lease area have been develope	
	Regional Office located at Bhubaneswar.	by Department of Mining Engineerin	_
		Indian Institute of Technology (India School of Mines) Dhanbad as on 31.03.202	
		and Land use pattern of the lease area is	
		follows,	us
		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	5 5 1	to
	extractors or equipped with water injection	September-2022.	
	system.	Will be followed during operation.	
xxvii	Mineral handling area shall be provided with		to
7,7,411	adequate number of high efficiency dust	September-2022.	
	extraction system. Loading and unloading	p	



Sl. No.	Condition	Compliance Status as on Sept -2022
	areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	Will be followed during operation.
xxviii	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and wastewater generated during the mining operation.	Septic Tanks with soaking pits have been provided for the various accommodations. Septic Tank & Soaking Pits are being cleaned regularly and maintained. However, Vehicle washing facility with Oil grease traps was provided at Chiria
xxix	Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.	general office for vehicles. Pre-placement medical examination and periodical medical examination is being carried out and records maintained.
XXX	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely elephant, sloth bear, Indian wolf, python etc. spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and wildlife Department. Necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project 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.	All precautions are under taken not to disturb the flora and fauna in the mining lease area. Necessary facilities are being extended to local forest department for their inspection and monitoring of forest area. IWLMP for West Singhbhum District of Jharkhand was prepared by an Expert Committee constituted by the State Govt. vide notification dated 27.08.2011. SAIL was assigned responsibility for institutionalising and funding the study. After submission of report on IWLMP by the Committee, GoJ vide letter dated 19.09.2014 forwarded to MoEFCC, Gol. 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, Gol 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.



SI. No.	Condition	Compliance Status as on Sept -2022
		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	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.
	project proponent out of the project cost.	Accordingly, the matter is being discussed with DFO, Saranda Division and a request letter has been submitted to DFO, Saranda on 03.05.2018 and 15.01.2022. 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 lease area shall be carried out after the sunset.	No working during April-2022 to September-2022.
		Will be followed during operation.
xxxiii	The critical parameters such as RSPM (Particulate matter with size less than 10 um	No working during April-2022 to September-2022.
	i.e. PM10) and NOx in the ambient air within the impact zone, peak particle velocity at	Will be followed during operation.



SI. No.	Condition	Compliance Status as on Sept -2022
	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
	Corpus Fund should be submitted to the	closure plan along with the fund details
	Ministry of Environment & Forests 5 years in	will 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 Sept- 2022
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-2022 to September-2022. 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-2022 to September-2022.
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-2022 to September-2022.
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-2022 to September-2022.
vi	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-2022 to September-2022.
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 on Sept- 2022
viii	Personnel working in dusty areas should wear protective respiratory devices and they should 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 dust and take corrective measures, if needed.	No working during April-2022 to September-2022.
ix	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization.	A full-fledged Environment Management Cell (EMC) has been established to look after environment aspects headed by an experienced engineer with more than 10 years' experience in the field of environment in the rank of AGM who directly reports Head of Mines.
х	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry of Environment and Forests and its Regional Office located at Bhubaneswar.	There will be separate budget for Environment & Lease department. The allocated budget will be exclusively used for Environment & Lease expenses only. Year wise expenditure from 2013 on Environmental protection measures is as furnished below:-
		Year Approximate Expenditu
		2013-14 42.00 Lakhs
		2014-15 25.70 Lakhs
		2015-16 44.60 Lakhs
		2016-17 53.02 Lakhs
		2017-18 50.84 Lakhs
		2018-19 48.54 Lakhs
		2019-20 53.45Lakhs
		2020-21 53.67 Lakhs
		2021-22 57.82 Lakhs



Sl. No.	Condition	Compliance Status as on Sept- 2022
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 Sept- 2022		
xvi	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as 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	financial year 2021-22 ending 31 st March, 2022 has been submitted to the Jharkhand State Pollution Control Board vide reference No: MOM/PC/6/162, dated: 28-04-2022.		
xvii	Forests, Bhubaneswar by e-mail. The project authorities should advertise at least in two local newspapers of the District or State in the project is located and widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 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 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.	o ence set ausum to ence the		

(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 -2022)	During Moon Soon (August-2022)			
G1	Adjacent to community centre at Angua	6.50	3.70			
G2	Opposite to community centre at Angua	6.60	3.90			
G3	Near Anqua Model Steel Village Gate	2.55	1.10			
G4	Siva Mandir	3.70	3.00			
G5	Near CNI Church	7.60	4.10			
G6	Near Bishra Chowk	1.85	1.50			

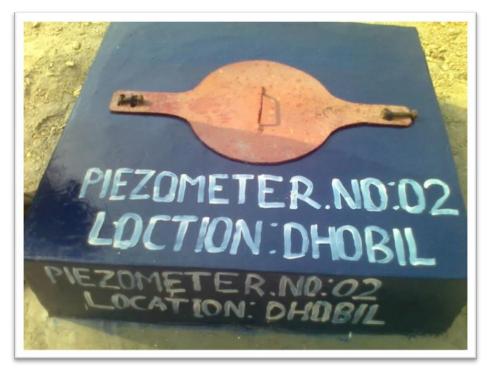
		Water level below the Ground Surface (in meters)				
Sl. No.	Location of Piezometer	During Pre-Monsoon (May -2022)	During Moon Soon (August-2022)			
1	Chiria Village	4.35	3.90			
2	Dhobil Village	3.55	3.50			



Annexure-1



1. Piezometer at Chiria Village



2. Piezometer at Dhobil Village



Annexure-2

WATER QUALITY OF HAMSADAGARA NALLA (Period: October -2021 to March-2022)

	Location - Upstream of Hamsadagara Nalla									
S. No.	Parameter	Unit	Standards as per IS: 2296-1982	Oct	Nov	Dec	Jan	Feb	Mar	
1	рН	_	6.5 - 8.5	7.95	7.73	7.9	7.42	7.31	7.4	
2	Temperature	°C	-	28.4	22.5	21.8	21.1	21.9	24.4	
3	Turbidity	NTU	-	3.3	3.2	3.11	3.1	3.15	3	
4	Conductivity	μS/cm	-	165.2	151.1	145.1	138.9	120.8	110.2	
5	DO	Mg/l	-	7.3	7.38	7.44	7.52	7.41	7.65	
6	TDS	Mg/l	500	79.4	77.2	70.9	65.4	60.5	54.8	

Location -Downstream of Hamsadagara Nalla									
S. No.	Parameter	Unit	Standards as per IS: 2296-1982	Oct	Nov	Dec	Jan	Feb	Mar
1	рН	-	6.5 - 8.5	7.8	7.62	7.75	7.3	7.24	7.47
2	Temperature	°C	-	28.2	22.7	21.7	21.3	21.7	24.2
3	Turbidity	NTU	-	3	2.95	2.9	2.87	2.8	2.75
4	Conductivity	μS/cm	-	144.5	132.8	128.7	122.4	95.4	91.4
5	DO	Mg/l	-	7.45	7.52	7.56	7.6	7.49	7.7
6	TDS	Mg/l	500	66.8	60.5	57.1	51.3	47.2	45.1