

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड STEEL AUTHORITY OF INDIA LIMITED ^{ISAIL} बोकारो इस्पात संयंत्र

BOKARO STEEL PLANT एम.ओ.एम., चिडिया

MOM, CHIRIA

Ref. No. MOM/PC/6/147

Date: 26.11.2021

To,

शंजरद्री REGISTERED

Additional PCCF (IFS) Ministry of Environment, Forest and Climate Change Regional Office (ECZ) Bunglow No. A - 2, Shyamali Colony Ranchi - 834 002

Sub: Six Monthly Compliance of the Conditions Stipulated in Environmental Clearance of Sukri-Luturburu Mining project for the period April-2021 to September-2021 of M/s SAIL.

Sir,

We are hereby submitting status of compliance for the above period up to 30th September 2021 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.

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

Copy to:

- Director, IA, MoEF&CC, GOI, Indira Paryavaran Bhavan, Aliganj, JorBagh Road, New Delhi -110 003.
- 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 - 2021 to September - 2021)



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-2021 to September-2021

A. Specific Condition

Sl. No.	Condition	Compliance Status as on September - 2021
i	The project proponent shall obtain Consent	Consent to Establishment was obtained from
	to Establish and Consent to Operate from	Jharkhand State Pollution Control Board for a
	the Jharkhand State Pollution Control	capacity of 0.75 MPTA, vide letter Ref. no:
	Board and effectively implement all the	PC/NOC/JSR/333/09-G-1819,dated: 2.05.2014.
	conditions stipulated therein.	
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.	Chara 1 Farract Classicans was abtained vide
iv	Environmental clearance has been	Stage-1 Forest Clearance was obtained vide
	accorded to the broken up granted of 33.40 ha forest land for which for which forestry	letter Ref: F.No.8-70/2009-FC, dated:
	•	09.03.2011. Stage-01 conditions compliances submitted & Final Clearance is awaited.
	clearance has been granted. No mining	Submitted & Final Clearance is awaited.
	activity will be allowed in forest area for which the Forest Clearance is not available.	
V	The project proponent will seek and obtain	Not Applicable
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	approval under the FC Act, 1980 for	Not Applicable
	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	



Sl. No.	Condition	Compliance Status as on September - 2021
	constructed to be available for the mining lease area as per the revised mining lease deed.	
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 -2021 to September-2021. 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 -2021 to September-2021. 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.	No working during April -2021 to September-2021. 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.



SI. No.	Condition	Compliance Status as on September - 2021
	Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.	
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 -2021 to September-2021. 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 -2021 to September-2021. 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 -2021 to September-2021. 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	No working during April -2021 to September-2021.



Sl. No.	Condition	Compliance Status as on September - 2021		
	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.	 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 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 during April -2021 to September-2021. 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 -2021 to September-2021. 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	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		



Sl. No.	Condition	Compliance Status as on September - 2021		
	piezometers during the mining operation. The periodic 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	monitored at regular intervals i.e. 4 times in year. The Range of water during Summer (May-20 and during Monsoon (August-2021) is follows,		
	consultation with the State Ground 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	ID Location Ground Surface (in meters)		
	Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any	G1 Adjacent to community centre at Angua G2 Opposite to community 6.1- 6.4 6.2-6.65		
	stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures	G3 Near Anqua Model Steel Village Gate 1.90-2.30		
	shall be carried out.	G4 Siva Mandir 3.30-3.60 G5 Near CNI Church 7.25-7.50		
		G5 Near CNI Church		
		In addition to above Two piezometers one at Chiria (150 feet) and another at Dhobil Village 200 feet provided and are being monitored at regular intervals i.e. 4 times in a year. Ground water levels during Summer (May-2021) and during Monsoon (August-2021) and piezometer photograph is placed in Annexure – 1 .		
xviii	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and	No working during April -2021 to September-2021.		
	around the mine lease shall be carried out and records maintained.	Regular monitoring of flow rate of water at the perennial nalla i.e. Hamsadagaar Nalla, is being done and records are being maintained.		
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	Water quality monitoring at both upstream and downstream of Hamsadagaar Nalla is being done on quarterly basis and results are being submitting to Ministry of Environment, Forest & Climate Change, it's Regional Office, Ranchi, the Central Groundwater Authority, the State Pollution Control Board and the Central Pollution Control Board.		



Sl. No.	Condition	Compliance Status as on September - 2021			
	Control Board.	The Range of upstream and downstream Parameters during April-21 to Sep-21 is as			ownstream
					p-21 is as
		follows-	1	T	1
		Parameter	Unit	Up-	Down-stre
				stream	
		рН	-	6.55-6.50	7.65-6.6
		Temperature	°C	22.1-26.2	22.5-27.
		Turbidity	NTU	2.30-1.75	2.35-1.5
		Conductivity	μS/cm	130.5-	
				160.5	104.00-13
		DO	Mg/l	7.60-7.82	7.45-7.6
		TDS	Mg/l	73.2-94.3	55.4-80.
		Water quality da			
XX	The Project proponent shall obtain	Permission obt			
	necessary prior permission of the			Of Jharkh	
	competent authorities for drawl of	agreement has			•
	requisite quantity of water (surface water	Division, Chaiba			
	and ground water) required for the project.	water from Har			
		0.62 MCM per	annum	tor ivianon	arpur Ore
wi	Suitable rainwater harvesting measures on	Mines, Chiria.	s are les	atad at the	hill ton all
xxi	Suitable rainwater harvesting measures on long term basis shall be planned and	As the mine pit the surface run			=
	implemented in consultation with the	been diverted to		_	
	Regional Director, Central Ground Water	in to the groun	-		•
	Board.	and siltation p			
	Bourd.	control surface		been cons	structed to
xxii	Appropriate mitigative measures shall be	No working du		l -2021 to S	eptember-
	taken to prevent pollution of the Koina	2021.			
	River in consultation with the State				
	Pollution Control Board.	For preparation		=	
		Area Treatmer			-
		discussion was Kharagpur, a w		•	•
		institute of th		•	
		preparation of t			igageu ioi
		IIT Kharagpur,			
		Remote Sensing	_		
		survey, has pre	-		
		Plan covers an			-
		bounded by the			
		west up to the	east ba	nk of river l	karo in the
		east.			



SI. No.	Condition	Compliance Status as on Se	ptember - 2021
		The Plan has focused o scenario of the region, river water pollution and their description, soil consertint in the area etc.	r system, source of prevention, terrain rvation and its
		In consultation with SPCB I measures will be imple operation.	
xxiii	Vehicular emissions shall be kept under	No working during April -20	021 to September-
	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.	2021. Will be followed during oper	ation.
xxiv	No blasting shall be carried out after the	No working during April -20	021 to September-
	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.	Will be followed during oper	ration.
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.	Land use and land cover map of Sukri – Luturburu lease area have been developed by Department of Mining Engineering Indian	
		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 -20	
AAVI	extractors or equipped with water injection	2021.	·
	system.	Will be followed during oper	ation.



Sl. No.	Condition	Compliance Status as on September - 2021
xxvii	Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.	No working during April -2021 to September-2021. 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 have been provided for the various accommodations. Proposal for installation Sewage treatment plant for colony is under consideration.
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.	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, 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



SI. No.	Condition	Compliance Status as on September - 2021
		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	by erecting solar powered electric fencing all round it. The fencing so erected shall be maintained properly and the cost towards	In this compliance, the matter has been discussed but within the RF, Solar fencing is not possible due to some un-reachable condition & presuming the obstacle of movement of wild life animals.
	powered electric fencing shall be borne by the project proponent out of the project cost.	Accordingly, the matter is being discussed with 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.
		Accordingly, the matter is being discussed with DFO, Saranda Division and a request letter has been submitted to DFO, Saranda vide letter Ref. No. MOM/PC/6/58 dated 03.05.2018. Clarification /direction were requested from DFO, Saranda Division, Chaibasa. 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 -2021 to September-2021.
		Will be followed during operation.



Sl. No.	Condition	Compliance Status as on September - 2021
xxxiii	The critical parameters such as RSPM	No working during April -2021 to September-
	(Particulate matter with size less than 10	2021.
	um i.e. PM10) and NOx in the ambient air	Will be followed during operation.
	within the impact zone, peak particle	viii se renewed daring operation.
	velocity at 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	Not Applicable at present. Final Mine closure
	of Corpus Fund should be submitted to the	plan along with the fund details will be
	Ministry of Environment & Forests 5 years	submitted to the ministry 5 years advance.
	in advance of final mine closure for	
	approval.	



B. General Conditions

Sl. No.	Condition	Compliance Status as on September - 2021
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 -2021 to September-2021. 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 -2021 to September-2021.
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 -2021 to September-2021.
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 -2021 to September-2021.
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 -2021 to September-2021.
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.	Will be followed during operation.



SI. No.	Condition	Compliance Status as on September -2021		
	Oil and grease trap should be installed			
	before discharge of workshop effluents.			
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 of September-2021.	luring April -2021 to	
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.		
		Environment & lead quarter i.e. Raw headed by a quarent Environmental Environmental enthe RMD mines in	e EMC at Mines level an ase department at our head Materials Division, Kolkata alified person (M. Tech in gineering) and experience agineers who facilitate all cluding MOM, Chiria mines on of pollution control	
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	Approximate Expenditure	
		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 2020-21	53.45Lakhs 53.67 Lakhs	
		ZUZU-ZI	55.67 Lakris	



SI. No.	Condition	Compliance Status as on September - 2021
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 - 2021			
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 Forests, Bhubaneswar by e-mail.	year 2020-21 ending 31 st March, 2021 has been submitted to the Jharkhand State Pollution Control Board vide reference No: MOM/PC/6/132, dated: 24-04-2021.			
xvii	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.	Advertisement was given in two local newspapers Hindustan times (English) and Dainik Jagaran (Local Language Hindi) within 7 days of the issue of the clearance letter.			

(Ravi Ranjan)

General Manager (Mining)

Manoharpur Ore Mines, Chiria



Annexure-1

GROUND WATER LEVEL MEASUREMENTS

A. Ground Water levels in and around the Mines

Location	Location of Open Wells	Water level below the Ground Surface (in meters)				
ID	Location of Open Wells	During Summer (May -2021)	During Moon Soon (August-2021)			
G1	Adjacent to community centre at Anqua	6.40	6.10			
G2	Opposite to community centre at Anqua	6.65	6.20			
G3	Near Anqua Model Steel Village Gate	2.30	1.90			
G4	Siva Mandir	3.60	3.30			
G5	Near CNI Church	7.50	7.25			
G6	Near Bishra Chowk	1.70	1.55			

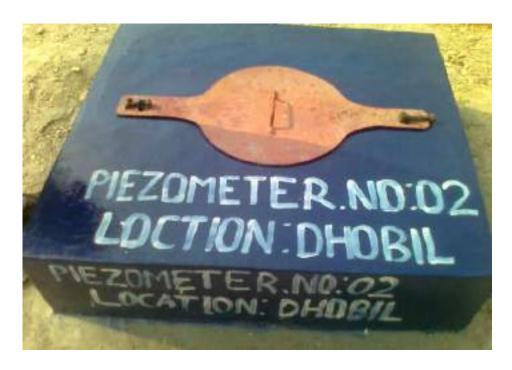
SI. No.	Location of Piezometer	Water level below the Ground Surface (in meters)			
31. NO.	Location of Plezonieter	During Summer (May -2021)	During Moon Soon (August-2021)		
1	Chiria Village	4.40	3.90		
2	Dhobil Village	3.35	3.15		



Annexure-1



1. Piezometer at Chiria Village



2. Piezometer at Dhobil Village



Annexure-2

WATER QUALITY OF HAMSADAGARA NALLA (Period: April -2021 to Sep-2021)

Location - Upstream of Hamsadagara Nalla									
S. No.	Parameter	Unit	Standards as per IS: 2296-1982	April	May	June	Jul	Aug	Sep
1	рН	-	6.5 - 8.5	6.5	7.40	7.12	7.50	6.50	8.42
2	Temperature	°C	-	22.1	22.5	23.5	25.7	26.2	26.8
3	Turbidity	NTU	-	2.30	1.90	1.30	1.50	1.75	2.80
4	Conductivity	μS/cm	-	130.5	124.6	136.8	145.2	160.5	151.6
5	DO	Mg/l	-	7.60	7.75	7.80	7.90	7.82	6.75
6	TDS	Mg/l	500	73.2	67.4	79.3	87.2	94.3	73.4

Location -Downstream of Hamsadagara Nalla									
S. No.	Parameter	Unit	Standards as per IS: 2296-1982	April	May	June	Jul	Aug	Sep
1	рН	-	6.5 - 8.5	7.65	7.70	6.80	6.74	6.65	8.30
2	Temperature	°C	-	22.5	23.8	24.7	26.5	27.1	26.7
3	Turbidity	NTU	-	2.35	1.98	1.37	1.30	1.50	2.45
4	Conductivity	μS/cm	-	104.0	110.0	115.1	130.8	139.7	132.8
5	DO	Mg/l	-	7.45	7.52	7.65	7.78	7.64	6.70
6	TDS	Mg/l	500	55.4	52.1	58.7	68.2	80.1	60.9