

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

BOKARO STEEL PLANT

एम.ओ.एम., चिडिया MOM, CHIRIA

Ref. No. MOM/PC/6/145

Date: 26.11.2021

To,

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

रजिस्टी

Sub: Six Monthly Compliance of the Conditions Stipulated in Environmental Clearance of Ajitaburu Iron ore mining project for the period April-2021 to Sep-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-11015/505/2007-IA. II(M), Dated: 31st March, 2011 in respect of Ajitaburu Iron ore mining project of Manoharpur Ore Mines of M/s SAIL for production of 2.80MTPA of Iron ore.

It may please be noted that mine is not in operation since 1995 for want of Stage - II Forestry Clearance.

Thanking you.

Yours faithfully, For, Steel Authority of India Ltd.

(Ravi Rahjan)

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

- 1. 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-11015/505/2007-IA.II(M),

Dated: 31st March, 2011 for 2.80 MTPA

Of

Ajitaburu 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-11015/505/2007-IA.II(M), Dated: 31st March, 2011 of Ajitaburu Iron Ore Mining project for production of 2.80 MTPA (ROM) of iron ore.

Half yearly compliance report for the period: April-2021 to September-2021

A. Specific Condition

SI. No.	Conditions	Compliance Status as on September - 2021
i	The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board and effectively implement all the conditions stipulated therein.	To obtain Consent to Establish (NOC), application was submitted to JSPCB, Ranchi and copy to Regional Office, Jamshedpur on 30.01.2010, vide Ref. No. MOM/C/PC/4/139.
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 is subject to obtaining clearance under Forest (Conservation) Act, 1980 for diversion of forestland. Mine working shall be restricted to the area for which forestry clearance has been obtained.	Stage-1 Forest Clearance was obtained vide letter Ref: F.No.8-70/2009-FC, dated: 07.03.2011 for mine working over 153.036 ha. Stage-01 conditions compliances submitted & grant of Final Clearance is awaited.
V	Prior environmental Clearance from the Standing Committee of the National Board for wildlife shall be obtained due to location of the mine within the core zone of Singhbhum Elephant Reserve, before starting any activity relating to the project at site. All the conditions stipulated by the standing committee shall be effectively implemented in the project. It shall be noted that wildlife clearance shall be granted to the project and that your proposal for wildlife clearance shall be considered by the competent authority ties on its merits and decision taken. The investment made in the project, if any	Not Applicable.



Conditions	Compliance Status as on September - 2021
based on environmental clearance granted to the project, in anticipation of the clearance from wildlife clearance shall be entirely at the cost and risk of the project proponent and Ministry of Environment and Forests shall not be responsible in this regard in any manner.	
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 hydrogeological 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 462m 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.
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.
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 separately stored at earmarked site. The stored top soil will be used in plantation works.
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. There shall be two external over burden dumps. The stabilized dump in area of 2 ha shall not be used for dumping in future. The new dump created in an area of 12 ha shall have maximum projected height of 34 m having two terraces and the overall slope	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 the Ministry of Environment & Forests and Climate Change and its Regional Office located at Ranchi.
	based on environmental clearance granted to the project, in anticipation of the clearance from wildlife clearance shall be entirely at the cost and risk of the project proponent and Ministry of Environment and Forests shall not be responsible in this regard in any manner. 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 hydrogeological study shall be carried out. 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. 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. 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. There shall be two external over burden dumps. The stabilized dump in area of 2 ha shall not be used for dumping in future. The new dump created in an area of 12 ha shall have maximum projected height of 34 m



SI. No.	Conditions	Compliance Status as on September - 2021
X	vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. Monitoring and management of rehabilitated areas shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis. 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 desilted particularly after the monsoon and maintained properly. 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 Retaining wall, Garland drain, siltation pond and construction of new Retaining wall, Garland drain, siltation pond at required places will be carried out.



SI. No.	Conditions	Compliance Status as on September - 2021
xi	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.
xii	Plantation shall be raised in an area of 92.986 ha including a 7.5 m wide green belt in the safety zone around the mining lease, over burden dumps, mine benches, 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.
xiii	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. Water sprinkling will be done on haul roads, loading and unloading point and all transfer points during operation period.
xiv	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.
XV	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-pre-monsoon (April-May), monsoon (August), postmonsoon (November) and winter (January); once in each season)] shall be	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.



Sl. No.	Conditions	Compliance Status as on September - 2021		
	carried out in consultation with the State Ground Water Board/Central Ground Water Authority and the data thus collected may be sent regularly to the	The Range of water levels during Summer (Ma 2021) and during Monsoon (August-2021) is follows,		
	Ministry of Environment and Forest and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the groundwater table is getting depleted due		Location Adjacent to community centre at Anqua Opposite to community centre at Anqua	Water level below the Ground Surface (in meters) 6.1- 6.4 6.2-6.65
	to the mining activity; necessary corrective measures shall be carried out.	G3	Near Anqua Model Steel Village Gate	1.90-2.30
		G4	Siva Mandir	3.30-3.60
		G5	Near CNI Church	7.25-7.50
		G6	Near Bishra Chowk	1.55-1.70
		(150 prov inter durii (Aug place	Idition to above Two pieze feet) and another at Dided and are being nevals i.e. 4 times in a yearn (May-2021) are and pieze and in Annexure – 1 .	hobil Village 200 feet nonitored at regular r. Ground water levels and during Monsoon ometer photograph is
xvi	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.			
xvii		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 Centra Groundwater Authority, the State Pollution Contro Board and the Central Pollution Control Board.		



Sl. No.	Conditions	Compliance Status as on September - 2021			
		The Range of upstream and downstrea			
		Parameters dur	ing April	-21 to Sep-2	1 is as follows-
		Parameter	Unit	Up-	Down-stream
				stream	
		pH	-	6.55-6.50	7.65-6.65
		Temperature	°C	22.1-26.2	22.5-27.1
		Turbidity	NTU	2.30-1.75	2.35-1.50
		Conductivity	μS/cm	130.5-	
				160.5	104.00-139.7
		DO	Mg/l	7.60-7.82	7.45-7.64
		TDS	Mg/l	73.2-94.3	55.4-80.1
		Water quality d			
xviii	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 ob Department, Go with Water Way for drawl of wa tune of 0.62 Mo Mines, Chiria.	/s Divisio ter from	n, Chaibasa Hamsadaga	as been made on 03.08.2017, ra Nalla to the
xix	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	surface runoff diverted to min ground.	from the e pits, fro arland di	e mining ar om where it rains and sili	hill top, all the eas have been seeps in to the tation pond has runoff.
XX	Appropriate mitigative measures shall be	No working during April-2021 to September-2021.			
	taken to prevent pollution of the Koina River in consultation with the State Pollution Control Board.	Area Treatment was held with world renowne	: (CAT) P DFO (Sar d premi	lan of the a anda) and I er mining i	sive Catchment area, discussion IT Kharagpur, a nstitute of the ion of the CAT
		prepared the (approx. area of	ology, as CAT Plan 11,500 oina in th	well as fie . The CAT Km² bound	ork and Remote eld survey, has Plan covers an ed by the west o the east bank
		the region, rive and their pre	r system vention, Id its inte	, source of terrain de egration witl	nent scenario of water pollution escription, soil n CSR activities,



SI. No.	Conditions	Compliance Status as on Sept	tember - 2021
		In consultation with State Pollut Pollution Control measures will during operation.	
xxi	Vehicular emissions shall be kept under	No working during April-2021 to	September-2021.
	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.	Will be followed during operation	1.
xxii	No blasting shall be carried out after the	No working during April-2021 to	September-2021.
	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 operation	1
xxiii	Digital processing of the entire lease area	The entire mine lease is in Ankua RF of Sara	
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 Rhubaneswar		Reserve Forest. Land use and land cover map area have been developed by Mining Engineering Indian Instit (Indian School of Mines) Dhanba and Land use pattern of the lease	y Department of tute of Technology d as on 31.03.2021
		LU/LC classes	Area (ha)
		Mine lease Boundary	323.887
		Dense forest	253.568
		Open forest	33.329
		Built-up area Mining	5.618
		Built-up area non mining	8.972
		Waste Land	22.402
xxiv	Drills shall either be operated with dust	No working during April-2021 to	September-2021.
	extractors or equipped with water injection system.	Will be followed during operation	۱.
xxv	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 Will be followed during operation	·



SI. No.	Conditions	Compliance Status as on September - 2021
xxvi	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 general office for vehicles.
xxvii	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.
xxviii	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 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



Conditions	Compliance Status as on September - 2021
	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.
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	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.
solar 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.
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.
The critical parameters such as RSPM (Particulate matter with size less than 10 µm i.e. PM10) and NOx in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is loser shall be monitored periodically. Further, quality of discharged water shall also be	No working during April-2021 to September-2021.
	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. No transportation of ore outside the mine lease area shall be carried out after the sunset. The critical parameters such as RSPM (Particulate matter with size less than 10 µm i.e. PM10) and NOx in the ambient air within the impact zone, peak particle velocity at 300m distance or within the nearest habitation, whichever is loser shall be monitored periodically. Further, quality



SI. No.	Conditions	Compliance Status as on September - 2021
	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.	
xxxii	A Final Mine Closure Plan along with	Not Applicable at present.
	details of Corpus Fund should be	
	submitted to the Ministry of Environment	Final Mine closure plan along with the fund details
	& Forests 5 years in advance of final mine	will be submitted to the ministry 5 years advance.
	closure for approval.	



B. General Conditions

SI. 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.
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.	No working during April-2021 to September-2021.
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	No working during April-2021 to September-2021.



SI. No.	Condition	Compliance Status as on September- 2021
	in operations of HEMM, etc. should be provided with ear plugs/muffs.	
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.	No working during April-2021 to September-2021. Will be followed.
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-2021 to September-2021. Will be followed.
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. In addition to the EMC at Mines level an Environment & lease department at our head quarter i.e. Raw Materials Division, Kolkata headed by a qualified person (M. Tech in Environmental Engineering) and experience environmental engineers who facilitate all the RMD mines including MOM, Chiria mines in implementation of pollution control measures.
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	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:-



SI. No.	Condition	Compliance Status as on September- 2021				
	Regional Office located at	Year	Approximate Expenditure			
	Bhubaneswar.	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			
хi	The project authorities should inform	Will be followed.	·			
	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.					
xii	The Regional Office of this Ministry	•				
	located at Bhubaneswar shall	· ·	F & CC, Bhubaneswar / Ranchi,			
	monitor compliance of the stipulated	'	equisite data / information /			
	conditions. The project authorities	monitoring reports.				
	should extend full cooperation to the					
	officer(s) of the Regional Office by					
	furnishing the requisite					
	date/information/monitoring Report.	Civ. magnethly agreedia	and the status of			
xiii	The project proponent shall submit six monthly reports on the status of	' '	nce reports on the status of environmental safeguards are			
	compliance of the stipulated EC	•	Ministry of Environment &			
	conditions including results of		Change and its Regional Office			
	monitored date (both in hard copies		Central Pollution Control Board			
	as well as by e-main) to the Ministry	and State Pollution Co				
	of Environment and Forests, its					
	Regional Office Bhubaneswar, The		ompliance report including			
	respective Zonal Office of Central	-	y data is being uploaded to the			
	Pollution Control Board the State	SAIL web site i.e. www	w.sail.co.in.			
	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,					



SI. No.	Condition	Compliance Status as on September- 2021
	Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and State Pollution Control Board.	
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.	
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.	Environmental Statement for the financial 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	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.



SI. No.	Condition	Compliance Status as on September- 2021
	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.	

(Ravi Ranjan)

General Manager (Mining)

Manoharpur Ore Mines



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 wens	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			

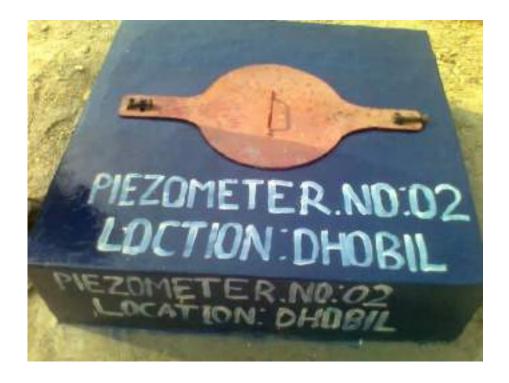
_	Location of	Water level below the Ground Surface (in meters)					
Sl. No.	Piezometer	During Summer (May -2021)	During Moon Soon (August-2021)				
1	Chiria Village	4.40	3.90				
2	Dhobil Village	3.35	3.15				



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	