स्टील ऑथीरिटी ऑफईण्डिया निमिटेड

(भारत रहकारका प्रतिस्थान) रो महारेशक्तिक्षीजन मनोकरपुर और माइस पोरट - विरिया, २० किटमुम, आरष्टण्ड- ८३३१०६ दुरगाय-०६३०८४२८७०६, E-mail: momehiria@gmail.com



STEEL AUTHORITY OF INDIA LIMITED (A Government of India Enterprise) RAW MATERIALS DIVISION MANOHARPUR ORE MINES

P.O. - CHIRLA, W. Singhibiam, Jharkhand-833106 P.Ph. No. 09308128774.

E-mail: momchiria@gmail.com

Date: 18/11/2017.

Ret. No. MOM/PC/6/49

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

Sub: Six Monthly Compliance of the Conditions Stipulated in Environmental Clearance of Sukri LuturburuMining project for the period April-2017 to September-2017 of M/s SAIL.

Sir,

We are hereby submitting status of compliance for the above period up to 30th September, 2017 to the conditions stipulated in the Environmental Clearance granted by MoEF vide No:J-11015/247/2009-IA.II(M), Dated: 10th June, 2013in respect of Sukri-LuturburuMining project of Mancharpur Dre 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 (Mines) Manoharpur Ore Mines Raw Material Division, SAIL

Copy to:

- Director, IA, MoEF&CC, GOI, Indira Paryavaran Bhavan, Aliganj, JorBagh Road, New Delhi 110 003.
- 2. Member Secretary, JSPCR, HFC, Dhurwa, Ranchi 834 004
- In-charge, Eastern Zone, CPCB, SouthernConclave, Black 507,5th & 6th Floors, 1582 Rajdanga Main Read, Kolkata - 700 107 (W. B.)

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'2017 to September'2017)



STEEL AUTHORITY OF INDIA LIMITED

RAW MATERIALS DIVISION 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'2017 to September'2017

A. Specific Condition

SI. No	Condition	Compliance Status as on September'2017
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.	Consent to Establishment was obtained from Jharkhand State Pollution Control Board for a capacity of 0.75 MPTA, vide letter Ref. no: PC/NOC/JSR/333/09-G-1819, dated: 22.05.2014.
ii	Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No. 460 of 2004, as may be applicable to this project.	Noted.
iii	Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to the project.	Provision of Wildlife (Protection) ACT 1972 is not attracted to the Project as there are no Wildlife sanctuaries, National Parks or similar places specified in the Act within 10 KM radius of the project.
iv	Environmental clearance has been accorded to the broken up granted of 33.40 ha forest land for which for which forestry clearance has been granted. No mining activity will be allowed in forest area for which the Forest Clearance is not available.	Stage-1 Forest Clearance was obtained vide letter Ref: F.No.8-70/2009-FC, dated: 07.03.2011 for mine working over 153.036 ha. Compliance report on the conditions stipulated in Stage – 1 FC was submitted to DFO on 22/07/2013. Govt. of Jharkhand forwarded the Stage -1 compliance to MoEF & CC, New Delhi on 22.09.2014.Grant of Final Clearance is awaited.
V	The project proponent will seek and obtain approval under the FC Act, 1980 for diversion of the entire forest land located within the mining lease within a period of two years from 01.02.2013 i.e. the date of issue of guidelines by FC vide there letter F.NO.11-362/2012-FC, failing which the mining lease area will be reduced to the non forest area plus the forest area for which the project proponent has been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area,	Not Applicable



SI. No	Condition	Compliance Status as on September'2017
	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.	
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' 2017 to September' 2017. 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' 2017 to September' 2017. 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	No working during April' 2017 to September' 2017. 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'2017
	be undertaken for stabilization of the du mp. 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.	
х	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	No working during April' 2017 to September' 2017. 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.
	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.	
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	No working during April' 2017 to September' 2017. 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.
	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.	
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' 2017 to September' 2017. Dimension of the retaining wall and check dams will be designed based on the rainfall data.



SI. No	Condition	Compliance Status as on September 2017
xiii	The void left unfilled in an area of 5ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.	No working during April' 2017 to September' 2017. 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' 2017 to September' 2017. 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' 2017 to September' 2017. 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. Further, Draft Technical Feasibility Study report for rainwater harvesting prepared by M/s KRG rainwater Foundation, Chennai was submitted recently. Final report will be submitted to Central Ground Water Board for



SI. No	Condition	Comr	oliance Status as on	Santambar/2017
31. 140	Condition			-
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-pre-monsoon (April-May), monsoon (August), post-monsoon	Netw aroun groun Groun are be times The R	nd the mines have nd water level monit and water table level eing monitored at i in a year.	ting Dug Wells located e been selected for	
	(November) and winter (January); once in each season shall be 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 Ministry of Environment and	follow	_	Water level below the Ground Surface (in meters)
	Forest and its Regional Office Bhubaneswar, the Central Ground Water Authority and the Regional Director, Central Ground Water	G1	Adjacent to community centre at Anqua	4.40- 7.55
	Board. If at any stage, it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective	G2	Opposite to community centre at Anqua	4.87-7.70
	measures shall be carried out.	G3	Near Anqua Model Steel Village Gate	2.22-2.80
		G4	Siva Mandir	3.80-3.90
		G5	Near CNI Church	5.90-8.10
		G6	Near Bishra Chowk	1.95-5.60
		Chiria 200 f being times qualit mons	(150 feet) and and feet provided in F monitored at req in a year. Groui y during pre-m	o piezometers one at other at Dhobil Village ebrauary'17 and are gular intervals i.e. 4 and water levels and onsoon (April-May), 17 and piezometer unnexure – 1.
xviii	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintained.	No w 2017. at the	orking during April Regular monitoring	2017 to September of flow rate of water Hamsadagaar Nalla,



SI. No	Condition	Compliance Status as on September 2017
XiX	Regular monitoring of water quality	Regular Water monitoring is being done on
ΛIΛ	upstream and downstream of the	quarterly basis and results and reports are
	Hamsadagaar Nalla shall be carried out and	being submitting to submitted to Ministry of
	record of monitored date should be	Environment and Forests, it's Regional Office,
	maintained and submitted to the Ministry of	Ranchi, Jharkhand State Pollution Control
	Environment and Forests, its Regional	Board and other statutory authorities.
	Office, Bhubaneswar, the Central	board and other statutory authorities.
	Groundwater Authority, the State Pollution	
	Control Board and the Central Pollution	
	Control Board.	
XX	The Project proponent shall obtain	Permission obtained from Water Resource
**	necessary prior permission of the	Department, Govt. Of Jharkhand and agreement
	competent authorities for drawl of requisite	has been made with Water Ways Division,
	quantity of water (surface water and ground	Chaibasa on 03.08.2017, for drawl of water
	water) required for the project.	from Hamsadagara Nalla to the tune of 0.62
	water, required for the project.	MCM per annum for Manoharpur Ore Mines,
		Chiria.
xxi	Suitable rainwater harvesting measures on	Draft Technical Feasibility Study report for
	long term basis shall be planned and	rainwater harvesting prepared by M/s KRG
	implemented in consultation with the	rainwater Foundation, Chennai was submitted
	Regional Director, Central Ground Water	recently. Final report will be submitted to
	Board.	Central Ground Water Board for their view and
		recommendations.
		Prioritizing the approved rainwater harvesting
		schemes for implementation in phased manner
		with time schedules.
xxii	Appropriate mitigative measures shall be	No working during April' 2017 to September'
	taken to prevent pollution of the Koina River	2017. However retaining wall and drains are
	in consultation with the State Pollution	constructed around the lease area to prevent
!!!	Control Board.	pollution of water bodies.
xxiii	Vehicular emissions shall be kept under	No working during April' 2017 to September'
	control and regularly monitored. Measures	2017. Will be followed during operation.
	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	
vviv	overloaded.	No working during April, 2017 to Sontombor
xxiv	No blasting shall be carried out after the	No working during April' 2017 to September'
	Sunset, Blasting operation shall be carried	2017. Will be followed during operation.
	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	



SI. No	Condition	Compliance Status as on September'2017	
	be implemented.		
Digital processing of the entire lease using remote sensing technique should done regularly once in three year monitoring land use pattern and submitted to the Ministry of Environment and Forests and its Regional Office Identity		The entire mine lease is in Ankua RF of Saranda Reserve Forest. Digital processing of the entire lease area by using remote sensing technique was done by IIT, Kharagpur. 2014 Land use pattern of the lease area is as follows,	
	at Bhubaneswar.	LU/LC classes Sukri LutuburuOre mining lease Area (ha) Built-up Land 14.133 Scrub land or grass 0.000 Dense forest 314.860 Open Forest 237.583 Water body 4.162 Wasted land 38.816 Total Area (ha) 609.554	
xxvi	Drills shall either be operated with dust extractors or equipped with water injection system.	No working during April' 2017 to September' 2017. Will be followed during operation.	
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' 2017 to September' 2017. 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.	



SI. No	Condition	Compliance Status as on September'2017
XXX	The project proponent shall take all precautionary measures during mining	All precautions are under taken not to disturb the flora and fauna in the mining lease area.
	operation for conservation and protection	Necessary facilities are being extended to local
	of endangered fauna namely elephant, sloth	forest department for their inspection and
	bear, Indian wolf, python etc. spotted in the	monitoring of forest area.
	study area. Action plan for conservation of	
	flora and fauna shall be prepared and	Comprehensive Integrated Wild Life
	implemented in consultation with the State Forest and wildlife Department. Necessary	Management Plan for the West Singhbhum District has been prepared under aegis of SAIL
	allocation of funds for implementation of	and the report is under finalization by Govt. of
	the conservation plan shall be made and the	Jharkhand.
	funds so allocated shall be included in the	STATINIATIA.
	project cost. All the safeguard measures	Measures suggested by Jharkhand Govt. for
	brought out in the wildlife Conservation	the leasehold shall be suitably implemented
	Plan so prepared specific to the project site	and demand raised by the State Govt. shall be
	shall be effectively implemented. A copy of	paid for implementation of the Wild Life
	action plan shall be submitted to the	Management Plan by the Govt. of Jharkhand.
	Ministry of Environment and Forests and its	
vond.	Regional Office, Bhubaneswar.	Action is being taken for exemption of color
xxxi	The entire mining lease area shall be fenced by erecting solar powered electric fencing all	Action is being taken for exemption of solar powered electric fencing in line with other
	round it. The fencing so erected shall be	projects.
	maintained properly and the cost towards	projects.
	erection and maintenance of the solar	
	powered electric fencing shall be borne by	
	the project proponent out of the project	
	cost.	
xxxii	No transportation of ore outside the mine	No working during April' 2017 to September'
	lease area shall be carried out after the	2017. Will be followed during operation.
!!!	sunset.	No working during Aprill 2017 to Control
xxxiii	The critical parameters such as RSPM (Particulate matter with size less than 10 um	No working during April' 2017 to September' 2017.
	i.e. PM10) and NOx in the ambient air within	2017.
	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 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	



SI. No	Condition	Compliance Status as on September 2017
	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 in	submitted to the ministry 5 years advance.
	advance of final mine closure for approval.	

B. General Conditions

SI. No	Condition	Compliance Status as on September, 2017
İ	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' 2017 to September' 2017. 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' 2017 to September' 2017.
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' 2017 to September' 2017.
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	No working during April' 2017 to September' 2017.



٩٠٠٠١٥	mance status of Lo	Sukii Lutuibuiu iioli Ole Willing project
	once in six months.	
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' 2017 to September' 2017.
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' 2017 to September' 2017.
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' 2017 to September' 2017.
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' 2017 to September' 2017.
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 Sr. Manager who directly reports Head of Mines. He is further assisted by one more experienced officer with a qualified M-Tech in Environmental Engineering for environment management at Mines.



		Name, designation & qualification of members of
		Environment management cell.
		SI. Name Designation Qualification
		1 Sri S S Rao Sr. Manager AMIE
		(Mining) (Mining)
		2 Sri Anupam Naik Dy. Manager M.Tech
		(Environment) (Environment)
		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
		and maintained of pollution control measures.
		Further two senior and experienced persons in the
		fields of Forest & Environment have been engaged
		by SAIL as advisors for guiding SAIL mines in
Х	The funds earmarked for environmental	management of Environment & Forest.
^	protection measures should be kept in	Funds allocated for environmental management are spent only for Environment related purposes and
	separate account and should not be	not diverted to any other purpose.
	diverted for other purpose. Year wise	not diverted to any other purpose.
	expenditure should be reported to the	
	Ministry of Environment and Forests and	
	its Regional Office located at	
	Bhubaneswar.	
хi	The project authorities should inform to	Will be followed.
	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	Full co-operation is extended to the officers of the
	at Bhubaneswar shall monitor compliance	Regional Office, MoEF & CC, Bhubaneswar / Ranchi,
	of the stipulated conditions. The project	by furnishing the requisite data / information /
	authorities should extend full cooperation	monitoring reports.
	to the officer(s) of the Regional Office by	
	furnishing the requisite data / information	
viii	/ monitoring reports.	Civ monthly compliance remarks on the status of
xiii	The project proponent shall submit six	Six monthly compliance reports on the status of
	monthly reports on the status of	implementation of environmental safeguards are
	compliance of the stipulated EC conditions	being submitted to MoEF&CC, New Delhi, Regional



ООПІРІ	Table Status of EC	Sukri Luturburu iron Ore Milning project
	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 Central Pollution Control Board and State Pollution Control Board.	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.on.
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 2016-17 ending 31 st March, 2017 has been submitted to the Jharkhand State Pollution Control Board vide reference No: MOM/PC/ 6/37, dated: 02-05-2017.

Period: April'2017 to September'2017

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 has been accorded the project 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.

General Manager (Mines)
Manoharpur Ore Mines



Annexure-1

GROUND WATER LEVEL MEASUREMENTS & QUALITY

A. Ground Water levels in and around the Mines

Location	Location of Onen Wells	Water level below the Ground Surface (in meters)		
ID	Location of Open Wells	Pre-monsoon (May, 2017)	Monsoon (August, 2017)	
G1	Adjacent to community centre at Anqua	7.55	4.40	
G2	Opposite to community centre at Anqua	7.70	4.87	
G3	Near Anqua Model Steel Village Gate	2.80	2.22	
G4	Siva Mandir	3.90	3.80	
G5	Near CNI Church	8.10	5.90	
G6	Near Bishra Chowk	5.60	1.95	

Cl No	Location of Diagramaton	Water level below the Ground Surface (in meters)		
Sl. No.	Location of Piezometer	Pre-monsoon (May, 2017)	Monsoon (August, 2017)	
1	Chiria Village	4.40	3.70	
2	Dhobil village	3.70	3.00	

B. Ground Water Quality in and around the Mines

Date of sampling:		19.05.2017 (Pre-monsoon)						
S. No.	Parameters	Unit	G 1	G 2	G 3	G 4	G 5	G 6
1	pН	-	7.07	7.02	6.98	6.89	6.88	7.09
2	Temperature	°C	32.90	32.50	32.80	32.30	32.30	32.20
3	Turbidity	NTU	3.66	2.62	1.03	1.37	6.40	5.58
4	Conductivity	uS/cm	340.00	329.00	192.00	304.00	351.00	254.00
5	DO	mg/l	5.02	6.35	6.25	6.02	5.90	7.18
6	TDS	mg/l	140.00	148.00	86.20	126.00	158.00	105.10
7	TSS	mg/l	18.20	15.60	11.30	21.50	45.80	25.30

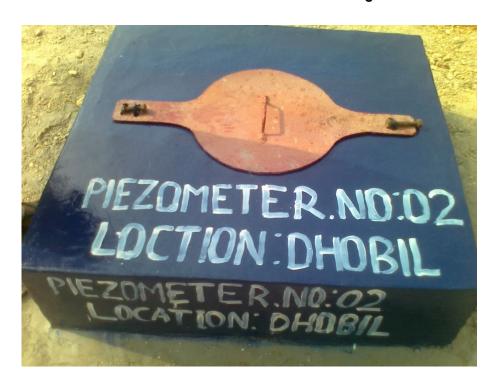
Date of sampling:		28.08.2017 (Monsoon)						
S. No.	Parameters	Unit	G 1	G 2	G 3	G 4	G 5	G 6
1	pН	-	6.98	7.05	7.03	6.95	6.84	7.15
2	Temperature	°C	28.7	28.6	28.7	28.5	28.6	28.4
3	Turbidity	NTU	4.03	3.65	2.50	1.85	6.70	5.10
4	Conductivity	uS/cm	346.60	366.70	266.30	302.22	382.22	346.50
5	DO	mg/l	6.05	6.40	6.50	6.60	6.20	7.10
6	TDS	mg/l	156.00	165.00	120.00	136.00	172.00	115.00
7	TSS	mg/l	22.50	18.60	13.30	25.60	60.80	28.90



Annexure-1



1. Piezometer at Dhobil Village



2. Piezometer at Dhobil Village