Compliance to Environmental Clearance conditions

Of

Sukri Lutuburu Iron Ore Mine Raw Materials Division M/s. Steel Authority of India Limited

For the period April'2013 to Sep' 2013

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

Half yearly compliance report for the period: April'2013 to Sep' 2013

A. Specific Condition

SL, No	Condition	Compliance
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 Officce, Jamshedpur on 30.01.2010, vide Ref No.MOM/C/PC/4/130. Application for Consent for operation was submitted to JSPCB, Ranchi and copy to regional Officce, Jamshedpur on 20.08.2013, vide Ref No.MOM/C/PC/5/89.
ii	Environmental clearance is subject to final order of the Hondple 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.	Agreed.
iii	Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to the project.	Not Applicable
iv	Environmental clearance has been accorded to the broken up granted of 33.40 ha forest land for which for which forestry clearance has been granted. No mining activity will be allowed in forest area for which the Forest Clearance is not available.	Stage-1 Forest Clearance was obtained vide letter Ref: F.No.8-70/2009-FC,dated: 09.03.2011.Stage-01conditions compliances submitted & Final Clearance is awaiting.
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-	Agreed.

Half-yearly compliance status of Environmental Clearance conditions of **Sukri Lutuburu Iron Ore Mine**For the period April-13 to September 2013

	FC,failing which the mining lease area will be reduced to the non forest area plus the forest area for which the project proponent has been able to obtain the FC at the end of this time period. In the case of reduction in mine lease area, the project proponent will need to get a revised mining Plan approved from the competent authority for reduced area and enter into a new mining lease as per reduced lease area. The EC will be constructed to be available for the mining lease area as per the revised mining lease deed.	
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 msl and ultimate depth of our proposed workings will be above 635 msl. 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 hydrogeological 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 2013 to Sepq 2013, 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 2013 to Sepq 2013. 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 phasewise stabilization shall be carried out. The maxium height of the dump shall be 30m in three terraces of 10 m each so that the overall slope should be	No working during April 2013 to Sepq 2013, 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. We will ensure to submit 6 monthly Compliance to the Ministry of Environment & Forests and its Regional

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		scientifically vegetated with suitable	Office located at Bhubaneswar.
		native species to prevent erosion and	
		surface run off.In critical areas,use of	
		geo textile shall be undertaken for	
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		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.	
F	Х	Catch drains and siltation ponds of	No working during April 2013 to Sepq
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		appropriate size shall be constructed	2013, After starting operations, Repair
		around the mine working soil, mineral	of old Retaining wall ,Garland drain ,
		and OB dump(s) to prevent run off of	siltation pond and construction of new
		water and flow of sediments directly	Retaining wall at required places will be
		•	carried out .
		into the Hamsadagaar Nallah, the	cameu out .
		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.	
_	xi	the monsoon and maintained properly.	No working during April@013 to Sepg
	xi	the monsoon and maintained properly. Garland drains, setting tanks and	No working during April 2013 to Sepq
-	xi	the monsoon and maintained properly. Garland drains, setting tanks and check dams of appropriate size,	2013, After starting operations, Repair
-	xi	the monsoon and maintained properly. Garland drains, setting tanks and check dams of appropriate size, gradient and length shall be	2013, After starting operations, Repair of old Garland drain, siltation tanks,
	xi	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,	2013, After starting operations, Repair of old Garland drain, siltation tanks, check Dams and construction of new
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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 2013 to Sepq 2013, Dimension of the retaining wall and check dams will be designed based on the rainfall data.
xiii	The void left unfilled in an area of 5ha shall be converted into water body. The higher benches of excavated void/mining pit shall be terraced and plantation done to stabilize the slopes. The slope of higher benches shall be made gentler for easy accessibility by local people to use the water body. Peripheral fencing shall be carried out all along the excavated area.	No working during April 2013 to Sepq 2013, 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 225.775.645 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.	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 2013 to Sepq 2013, 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.	No working during April 2013 to Sepq 2013, Will be followed during operation.

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 (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 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 to the mining activity; necessary corrective measures shall be carried out.	Water table level measurements in the surrounding wells are being carried out at regular intervals i.e 4 times in a year. Action is being taken for installing new piezometers.
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 working during April 2013 to Sepq 2013, Action is being taken for Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine
xix	Regular monitoring of water quality upstream and downstream of the Hamsadagaar Nalla shall be carried out and record of monitored date should be maintained and submitted to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, the Central Groundwater Authority, the State Pollution Control Board and the Central Pollution Control Board.	Regular Water monitoring is being done on quarterly basis and results and reports are being submitting to submitted to Ministry of Environment and Forests, its Regional Office,Bhubaneswar, Jharkhand State Pollution Control Board and other statutory authorities.
XX	The Project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) required for the project.	No working during April 2013 to Sepq 2013, Action is being taken to obtain Permission from the competent authorities Will be obtained.

xxi	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	No working during April 2013 to Sepq 2013, Suitable rainwater harvesting measures on long term basis will be implemented after start of the mining operations.
xxii	Appropriate mitigative measures shall be taken to prevent pollution of the Koina River in consultation with the State Pollution Control Board.	No working during April 2013 to Sepq 2013, However Retaining wall, drains constructed around the lease area to prevent pollution of water bodies.
xxiii	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and in transportation of mineral from mine face to the beneficiation plant. The vehicles shall be covered with a tarpaulin and shall not be overloaded.	No working during April 2013 to Sepq 2013, Will be followed during operation.
xxiv	No blasting shall be carried out after the Sunset, Blasting operation shall be carried out only during the daytime. Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	No working during April 2013 to Sepq 2013, Will be followed during operation
XXV	Digital processing of the entire lease area using remote sensing technique should be done regularly once in three years for monitoring land use pattern and report submitted to the Ministry of Environment and Forests and its Regional Office located at Bhubaneswar.	No working during April 2013 to Sepq 2013, Will be followed.
xxvi	Drills shall either be operated with dust extractors or equipped with water injection system.	No working during April 2013 to Sepq 2013, 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 2013 to Sepq 2013, 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.	No working during April 2013 to Sepq 2013, Action is being taken for installation Sewage treatment plant for colony.
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 of all the workers engaged in the Mine are 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. Facilities are being extended to local forest department for their inspection and monitoring of forest area. wild life management Plan will be implemented as per the direction of State forest department.
xxxi	The entire mining lease area shall be fenced by erecting solar powered electric fencing all round it. The fencing so erected shall be maintained properly and the cost towards erection and maintenance of the solar powered electric fencing shall be borne by the project proponent out of the project cost.	Action is being taken for solar powered electric fencing.
xxxii	No transportation of ore outside the mine lease area shall be carried out after the sunset.	No working during April 2013 to Sepq 2013, Will be followed during operation.

xxxiii	The critical parameters such as RSPM (Particulate matter with size less than 10 um 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 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	No working during April 2013 to Sepq 2013, Regular Air & Water monitoring is being done on quarterly basis and results and reports are being submitting to State Pollution Control Board and other statutory authorities.
	referred in this regard for its compliance.	
xxxiv	A Final Mine Closure Plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.	Not Applicable at present. Final Mine closure plan along with the fund details will be submitted to the ministry 5 years advance.

B. General Conditions:

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 2013 to Sepq 2013. 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 2013 to Sepq 2013.
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 10 um i.e. PM10) and NOx monitoring. Location of the stations should be decided based on	No working during April 2013 to Sepq 2013.

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	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.	
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 2013 to Sepq 2013.
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 2013 to Sepq 2013.
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 2013 to Sepq 2013.
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 2013 to Sepq 2013.
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.	No working during April 2013 to Sepq 2013.
	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.	
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.	Action is being taken to set up separate environmental management cell with suitable qualified personnel.
X	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.	Funds allocated for environmental management are spent only for Environment related purposes and not diverted to any other purpose.
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, Bhubaneswar, 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	We will ensure to submit 6 monthly Compliance to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar, Central Pollution Control Board and Jharkhand State Pollution Control Board.

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	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.	
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. No representation has received yet. 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 Collectors office/Tehsildars office for 30 days.	Compiled
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.	For the financial year 2012-13, We have submitted the environmental statement to the Jharkhand State Pollution Control Board vide reference No: MOM/PC/5/88, dated: 26-07-2013.
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	Advertisement was given in two local newspapers Hindustan times (English) and Dinik Jagarn (Local Langage Hindi) within 7 days of the issue of the clearance letter.

	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.	
7	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Agreed
8	Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act,1986.	Agreed
9	The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hondple Supreme Court of India/High Court of Jharkhand and any other Court of Law relating o the subject matter.	Agreed