



Ref: JSL/BHL/Mines/

Date: 29.04.2015

To,

**The Secretary,
Ministry of Environment & Forest,
Government of India,
Paryavaran Bhawan,
Lodhi Road, New Delhi- 110003**

Sub: Half Yearly Report of compliance of conditions of environment clearance of Lampiya Iron Ore, Copper and Associated Minerals Mine (ML NO. 627/05) located near village Lampiya in Distt. Bhilwara (Rajasthan).

Ref: Environment Clearance letter No. J-11015/460/2008-IA-II (M) dated 31.05.2011

Dear Sir,

In reference to the above subject matter and referred letter, we are submitting herewith the Report of point-wise compliance of conditions of the above environment clearance for the period from 1st Oct 2014 to 31st March 2015.

This is for your kind information and record.

Thanking you,

Yours faithfully,

For: Jindal Saw Ltd.

**Dinesh Patil
Agent – Lampiya Iron Ore Mine**

Encl: a/a

Copy to:

1. Regional Office, MOEF, Kendriya Bhawan, 5th Floor, Sector-H, Lucknow- 226024 (U.P.)
2. Zonal Office, Central Pollution Control Board (CPCB), Sahkar Bhawan, 3rd Floor, North TT Nagar, Bhopal-462003 (M.P.)
3. The Chairman, Rajasthan State Pollution Control Board, 4 Institutional Area, Jhalana Doongri, Jaipur-302004 (Rajasthan)

Lampiya Iron Ore, Copper and Associated Minerals Mine (ML No. 627/05)

Six monthly Reports on Status of Compliance of Stipulated Conditions

Period of Report: 01st Oct' 2014 to 31st Mar' 2015

Date: 29/04/2015

The Consent to Operate was granted on 24 Feb' 2014

	Specific Conditions	Compliance Status
i.	The project proponent shall obtain Consent to Establish and Consent to Operate from the Rajasthan State Pollution Control Board and effectively implement all the conditions stipulated therein.	a. The Consent to Establish was granted by RSPCB on 28.06.2012. b. The Consent to Operate the Mine was granted by RSPCB on 24.02.2014.
ii.	Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India in Contempt Petition (C) 412/2004 in IA No. 833 in Writ Petition (C)No. 202 of 1995.	We shall abide by the final outcome of Hon'ble Supreme Court of India as may be applicable to this Project.
iii.	The environmental clearance is subject to approval of the State Land use Department, Government of Rajasthan for diversion of agricultural land for non-agricultural use, as may be applicable to this project.	No mining activity will be conducted in the agricultural land without approval of State Land Use deptt.
iv.	Necessary prior permission from the Competent Authority as may be applicable for use of grazing land for mining purpose shall be obtained.	Necessary prior permission will be obtained before mining is started in grazing land.
v.	The project proponent shall develop fodder plots in the non-mineralized area in lieu of use of grazing land.	Work is confined within Government waste/barren land. We shall develop fodder plots in non-mineralized area in lieu of use of grazing land.
vi.	The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Adequate measures shall be taken for conservation and protection of the seasonal nallahs passing through the mine lease during the course of mining operation.	The seasonal nallah lies far away from the mine workings and will not be obstructed.
vii.	The top soil 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.	Top Soil is being stacked at earmarked sites. It is being used for plantation.
viii.	The over burden generated during the mining operation shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time and its phase-wise stabilization shall be carried out. Backfilling shall commence from the 13th years onwards.	The OB generated from the mine is utilized for road making and levelling of other depressed ground within the lease area as required. OB is being stacked only at earmarked places. Compliance status is

	<p>There shall be four external dumps. Proper terracing of OB dumps shall be carried out so that the overall slope of dumps shall not exceed 28 degree. The over burden dumps shall be scientifically vegetated with suitable native species to prevent erosion and surface run off. 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 Lucknow on six monthly basis.</p>	<p>submitted to the Ministry of Environment and Forest and its Regional Office at Lucknow on six monthly basis. We assure that all conditions will be complied with, overall slope of the waste dump is being maintained at 28 degree and mature dumps will be vegetated.</p>
ix.	<p>Catch drains and siltation ponds of appropriate size shall be constructed for the working pit, soil, OB and mineral dumps to arrest flow of silt and sediment directly into the agricultural fields and water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after the monsoon and maintained properly.</p> <p>Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and the OB dumps to prevent run off of water and flow of sediments directly into the agricultural fields and 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 should be constructed at the corners of the garland drains and desilted at regular intervals.</p>	<p>Garland drains, check dams and settling tanks shall be constructed as stipulated.</p>
x.	<p>Dimension of the retaining wall at the toe of the OB dump(s) and the OB benches within the mine to check run-off and siltation should be based on the rain fall data.</p>	<p>No external dump has been created. Retaining wall will be made after OB dumps are created.</p>
xi.	<p>Plantation shall be raised in an area of 133.03ha including a 7.5m wide green belt in the safety zone around the mining lease, OB dumps, 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 1000 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.</p>	<p>Stage-wise plantation programme has been raised. In the beginning there has been short fall in plantation due to non availability of STP Water. Now the pipe line will be set up to get water.</p>

xii.	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 crusher zone, loading and unloading point and all transfer points during handling of the ore. Extensive water sprinkling shall be carried out on 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.	Effective water sprinkling is done to suppress the dust at the mine face, road and loading and unloading points.
xiii.	Continuous monitoring of the RSPM level near the crusher house shall be carried out and records maintained. If any stage the levels are found to be exceeding the prescribed limits, the necessary mitigation measures shall be implemented.	Monitoring of RSPM is done near the mining face. Crusher has not been installed. It will be implanted after crusher is installed. The AAQ monitoring reports for the period of Oct'2014 to Mar'2015 are enclosed in Annexure- I & II
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.	The construction of ground water recharge measures for augmenting the ground water resources of the area shall be implemented before ground water is abstracted.
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 piezometer during the mining operation. The periodic monitoring [(at least four times in 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 Forests and its Regional Office Lucknow, 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.	Monitoring of ground water quality has been carried out of existing wells. The quality is noted to be within permissible limits. The copies of the Reports for the period of Oct'2014 to Mar'2015 are enclosed as Annexure-III & IV Since the mining has been done above the ground level, the ground water has not been affected.
xvi.	Prior permission from the Competent Authority shall be obtained for use of groundwater for the project.	Prior permission has been obtained vide letter dated 21.02.2011. Ground water is not being abstracted.
xvii.	It shall be ensured that the adequate quantity of safe drinking water is provided to the villagers in the area where fluoride levels are found to be high.	Defluoridization Plant will be installed to supply drinking water to villagers.
xviii.	Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.	We are in consultation with the Central Ground Water Board in this regard. Construction the ground water recharge structures will be started.

xix.	Vehicular emissions shall be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operation and in transportation of mineral. The vehicles carrying the mineral shall be covered with a tarpaulin and shall not be overloaded.	The stipulation is being complied with.
xx.	The dust generated during mining operation shall be scavenged.	Dust generated during mining is scavenged by water spraying.
xxi.	Controlled blasting shall be practiced. The mitigative measures for control of ground vibrations and to arrest fly rocks and boulders should be implemented.	No blasting is done. It shall be implanted when blasting is done.
xxii.	Drills shall either be operated with dust extractors or equipped with water injection system.	No drilling is done.
xxiii.	Mineral handling area shall be provided with the 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.	Mining is done on a very small scale. Water sprinkling is done.
xxiv.	Sewage treatment plant shall be installed for the colony. ETP shall also be provided for the workshop and the wastewater generated during mining operation.	No colony or workshop has been constructed as yet. No waste water is being generated during mining. The stipulation is being complied with.
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 MOEF and its regional office.	Digital processing of the entire lease area using remote sensing technique has already been done and submitted with EIA & EMP report. It will be done during the year 2015-16.
xxvi.	The project authorities should undertake sample survey to generate data on pre-project community health status within a radius of 1 km from proposed mine.	The Pre-project community health status within a radius of 1.0 km from the proposed project site has been conducted and submitted to Rajasthan State Pollution Control Board along with the application for grant of Consent to Operate.
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 of workers is being carried out as required under Mines Rules, 1955.
xxviii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Construction workers are from nearby villages. After end of days work they go back to their houses. Therefore, need for temporary structures have not arisen.

xxix.	The critical parameters such as RSPM (Particulate matter with size less than 10micron 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 closer 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.II(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.	The Instructions contained in circular No. J-20012/12006-IA.II (M) dated 27.05.09 issued by MOEF has been noted and is being complied with. As per circular fortnightly AAQ monitoring is under practice in mine lease area. The monitoring report for the period of Oct'2014 to Mar'2015 are enclosed in Annexure- V .
xxx.	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	The Final Mine Closure Plan shall be submitted as per rules.
B. General Condition :		
i.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	No change will be made in mining technology and scope of working without prior approval of MOEF.
ii.	No change in the calendar plan including excavation, quantum of mineral iron ore and waste should be made.	No change will be made in the calendar plan.
iii.	Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department.	The stipulation shall be complied with.
iv.	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 10micron i.e., PM10) & 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	Ambient air quality monitoring was carried out by external agency in Dec' 2014 & Mar' 2015 and noticed that the AAQ is within permissible limits. The Reports are enclosed as Annexure – I & II . Four ambient air quality monitoring stations in each of Core zone and Buffer zone have been established as per approved plan for monitoring the AAQ.
v.	Data on ambient air quality RSPM (Particulate matter with size less than 10micron i.e., PM10) & NOx should be regularly submitted to the Ministry of Environment and Forests including its Regional office located at Lucknow and the State Pollution Control Board / Central Pollution Control Board once in six months.	The Reports are enclosed as Annexure- I & II. The reports are submitted to MOEF and its Regional Office located at Lucknow, RSPCB and CPCB.

vi.	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.	The fugitive dust emissions from all the sources are being controlled regularly. Regular water spraying arrangement on haul roads, loading and unloading points has been made and maintained properly.
vii.	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.	Proper measures are being taken for control of noise in the work environment area. The monitoring reports are enclosed as (Annexure-VI) . Proper PPE are provided to the workers engaged in the operations.
viii.	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 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.	No industrial waste water is generated till date. Proper arrangement will be made to collect the waste water whenever it will be generated.
ix.	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.	Proper compliance is being done. Pre-employment Medical Tests examination is under practice. It is being repeated periodically to observe any contractions due to exposure of dust.
x.	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.	The Cell has been set up under the control of a Senior Executive who reports directly to the Director.
xi.	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 Lucknow.	Separate Fund has been earmarked for environment protection measures.
xii.	The project authorities should inform to the Regional Office located at Lucknow regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The date of financial closure of the company is 31st March of every year. The final approval of the Project as Consent to Operate has been given by RSPCB on 24.02.14. The land development was started from April'2014.
xiii.	The Regional Office of this Ministry located at Lucknow 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 data / information / monitoring reports.	The instruction has been noted. The Regional Officer, Lucknow has been provided with all the information asked by them.

xiv.	The project proponent shall submit six monthly reports on the status of compliance of the stipulated environmental clearance conditions including results of monitored data (both in hard copies as well as by email) to the Ministry of Environment and Forests, its Regional Office Lucknow, the respective Zonal Office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Lucknow, the respective Zonal Office of Central Pollution Control Board and the SPCB.	The Compliance Report for the period from 01 st Oct' 2014 to 31 st Mar' 2015 is enclosed herewith.
xv.	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 the Clearance letter has been sent to all concerned and it has been put on the website of the Company.
xvi.	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.	It has been done by RSPCB.
xvii.	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, Lucknow by e-mail.	It will be submitted within the stipulated time on 30th Sept.'15 for the year 2014-15.
xviii.	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located at Lucknow.	It has been advertised in three Newspapers, namely The Hindu, Rajasthan Patrika and Dainik Bhaskar. The copies have been forwarded to the Regional Office, MOEF, Lucknow.


Dinesh Chandra Patil

Agent- Dhedwas Iron Ore Mine

