



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
रॉ मेटेरियल्स डिवीजन
RAW MATERIALS DIVISION
बोलानी अयस्क खदान
BOLANI ORES MINES

Ref No: - BOM/ENV/6.9/HD-2905

Date:-29.05.2018

To,

Additional Principal Chief Conservator of Forests (C),
Ministry of Environment, Forest and Climate Change,
Regional Office (EZ),
A/3, Chandersekharpur,
Bhubaneswar – 751023

Sub: Six monthly status of compliance to the conditions stipulated in the Environmental Clearance granted by MoEFCC for 15000 TPA Manganese Ore production from 6.90 sq. Miles ML vide letter no. J-11015/396/2008-IA.II(M) dated 21/12/2012 for the period OCT'17 – MAR'18

Sir,

Please find enclosed herewith the Six monthly compliance report for the period OCT'17 – MAR'18 with respect to the conditions stipulated by GoI, MoEF, New Delhi, in the Environmental Clearance grant order of Bolani Ores Mines for the production of 15000 TPA Manganese Ore from 6.90 sq Miles ML vide ministry's letter no. J-11015/396/2008-IA.II(M) dated 21/12/2012.

Thank you,

Yours faithfully,

**General Manager
Bolani Ores Mines**

डॉ. देवप्रकाश / L. S. DEVPRAKASH
नवाप्रबंधक (खान) / General Manager (Mines)
सेल - आर एम डी - 758037, बोलानी अयस्क खदान
SAIL-RMD-B, Bolani Ores Mines
बोलानी-758 037, केजोर, ओडिशा
Bolani-758 037, Keonjhar, Odisha

Encl: As above

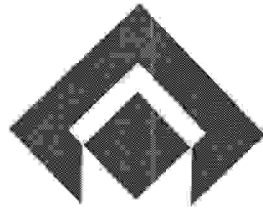
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1. Director, IA Division, MoEF&CC, GOI, Indira Paryavaran Bhavan, Aliganj, Jor Bagh Road, New Delhi - 110 003.
2. In-charge, Eastern Zone, CPCB, Southern Conclave, Block 502, 5th & 6th Floors, 1582 Rajdanga Main Road, Kolkata - 700 107 (W. B.)
3. The Member Secretary, State Pollution Control Board, Paribesh Bhawan, A/118, Nilkantha Naga, Unit – VIII, Bhubaneshwar – 751 012, Odisha

Six Monthly
COMPLIANCE REPORT
OF
ENVIRONMENTAL CLEARANCE CONDITIONS
(Grant Order no: J-11015/396/2008-IA.II(M) dated 21/12/2012)

OF
BOLANI ORES MINES (6.90 Sq Miles ML)
In Keonjhar District of Odisha

For the Period October'17 - March'18



STEEL AUTHORITY OF INDIA LIMITED
RAW MATERIALS DIVISION
BOLANI ORES MINES
BOLANI- 758037

SL. NO.	CONDITION	COMPLIANCE
A.	SPECIFIC CONDITIONS	
i.	Environmental Clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as applicable.	Not Applicable as the Provision of Wildlife (Protection) ACT 1972 is not attracted to the Project.
ii.	The mining operation shall be restricted to above ground water table and it shall not intersect groundwater table. In case of working below the ground water table, Prior approval of the Ministry of Environment & Forest and Central Ground Water Authority shall be obtained for which a detailed hydrogeological study shall be carried out.	The Mining operations in this ML have not been commenced yet. In case of working below the ground water table, a detailed hydrogeological study will be carried out and prior approval of the Ministry of Environment & Forest and Central Ground Water Authority will be obtained for working below Ground Water Table.
iii.	Mitigation measures to control RSPM levels shall continue to be implemented and air quality data will also be collected during operation of the mines. The data so collected shall be analyzed to see the effectiveness of the mitigation measures implemented. Based on the same, additional safeguard measures, as may be required shall be implemented in the project.	<p>The Mining operations in this ML have not started yet. Mitigation measures are regularly implemented to control the RSPM levels. On production of ROM from this lease, total dispatch will be through rail route. As such, in order to improve the RSPM quality, SAIL-Bolani Ore Mines has completed the implementation of following mitigation measures :</p> <ul style="list-style-type: none"> (a) Repaired and blacktopped the Road from Karo Bridge to Bolani entry point (3.2 km) at a cost of Rs.732 lakhs. (b) Repaired and blacktopped the Balagoda - Bolani road (2.4 km) at a cost of Rs.20 lakhs. (c) Dry Fog Dust suppression system has been installed in the 600 TPH Crushing & Screening Plant (d) In addition to water sprinkling on haul roads, water sprinkling facility has been extended to the Public roads outside this lease. (e) Fixed water sprinkling system has been installed in the 600 TPH areas. (f) During ROM production from this ML, additional water sprinkling measures as planned in EMP will be undertaken. <p>Regular Environmental Audits are part of the Environmental Management System (EMS) implemented at Bolani Ore Mines, which is certified under ISO-14001:2004 standard. These audits check the conformance of the air quality to the applicable norms and thereby effectiveness of the pollution control equipment / facilities is regularly reviewed for taking up any additional safeguard measures, if any required.</p>

SL. NO.	CONDITION	COMPLIANCE
iv.	The biological survey shall be repeated during October- December and mid-May month to see the existence of wildlife corridors, if any. Based on the same, necessary Wildlife Conservation Plan as may be required shall be prepared and implemented in consultation with the state Forest and Wildlife Department.	A Notice Inviting Tender had been placed by BOM vide Tender no.BOM/CC/E&L/T-137 Dt.11/11/2016. The consultant shall conduct the biological survey and prepare a Wildlife Conservation Plan in consultation with the state Forest and Wildlife Department accordingly.
v.	The biological survey shall also be undertaken to identify the trees with orchids, if any Such trees, so identified shall be protected and if need be, these trees may be relocated.	Noted for compliance. The proposal for Biological Survey to identify trees with orchids is in tendering process.
vi.	The Over Burden (OB) generated during the mining operation shall be stacked at earmarked dump sites(s) only and should not be kept active for long period. In critical areas, use of geo textiles shall be undertaken for stabilization of dump. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest and its Regional Office located at Bhubaneswar on six monthly basis.	Noted for Compliance.
vii.	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from mine working, soil, OB and mineral dumps. The water so collected should be utilized for watering the mine area, roads, green belt development etc.. The drains should be regularly de-silted particularly after monsoon and maintained properly.	<p>The Mining operations in this ML have not started yet. Therefore, no silt is generated from the Mine working. However, above measures will be undertaken as soon as the Mining operations are started.</p> <p>As such the drains are de-silted in regular interval after monsoon and maintained. During Apr'17 to Sep'17 the following Jobs have been undertaken for mitigating silt generation from the Mines:</p> <p>i. Sand bag check dam has been erected at tailing pond of BOM at a cost of Rs.6.66 lakhs.</p>
viii.	Dimension of retaining wall at the toe of dumps and OB benches within the mine to check run-off and siltation should be based on the rainfall data	The Mining operations in this ML have not started yet. Dimension of retaining walls to be constructed to check run-off and siltation will be based on Rainfall data and as per approved mining plan.
ix.	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna such as elephant, leopard, sloth bear, wolf, gaur, python etc. Spotted in the study area and contribute towards the cost of implementation of the plan and/ or Regional Wild life	The Mining operations in this ML have not started yet. As such Bolani ores mines extend necessary facilities to the local forest department for implementation of their wildlife conservation activities regularly. Action is being taken, to prepare a site specific Conservation plan as per guidelines of Chief Wild life Warden. The copy of the approved wildlife conservation plan along with financial implication will be submitted to the ministry and its Regional Office, Bhubaneshwar after obtaining