



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA), ORISSA

(Constituted vide Order No. S.O.2674 (E) Dated 17th Nov. 2008 of Ministry of Environment & Forest, Govt. of India)
Qr. No. - 5RF - 2/1, Unit-IX, Bhubaneswar-751022

Ref. No SEIAA/ 362

Date 06.09.10

From

Bhagirathi Behera, IFS
Director, Environment-cum-
Spl. Secy. to Government
Forest & Env. Deptt.
& Member Secretary, SEIAA

To

M/s Shree Metaliks LTD
Post box No-28, Gurudwar Road,
At/Po-Barbil-758035
Dist-Keonjhar, Orissa

Sub: Environment Clearance in favour of M/s Shree Metaliks Ltd. for Khandabandh iron ore mining project for production of 702048 TPA iron ore at near village Khandabandh, Dist- Keonjhar.

Sir

This has reference to your letter no SML/ENV/2007-2008/058 Dt. 27.08.2007, No nil Dt. 25.10.2007, No. SML/SPCB/2009-10 Dt. 18.02.2009, No. SML/MINES/EC/2009-10 Dt. 09.03.2010, No. SML/EC/MINES/2009-10 Dt. 25.03.2010 and No. SML/K.MINES/EC/2010-11 Dt. 07.07.2010 along with the application in the prescribed format (Form-1) and Terms of Reference (TOR) for Environmental Clearance on the above mentioned subject, I am directed to say that the SEIAA considered the application on the Proposal for Khandabandh iron ore mines production of 702048 TPA iron ore at near village Khandabandh, Dist-Keonjhar. The proposal is for production of 7,02,048 TPA iron ore. The ToR for this project were prescribed on Dt. 25.06.2008 by the Expert Appraisal Committee of MoEF, govt. of India. The mining lease covers an area of 35.774 ha. The entire lease area, comes under Baitarani Reserve Forest. The mining lease was initially granted to M/s. TISCO Ltd. But after relinquishing the lease to the State Government it is granted in favour of M/s. Sree Metaliks Ltd. for a period of 30 years from date of execution. The proponent has applied for forest diversion proposal, which is under process. Mining plan is approved for the production of 7,02,048 TPA iron ore. The pubic hearing was conducted 18.2.09. No National Park/ Sanctuary is located within 10 km of the mine lease. Mine working will be opencast and mechanized involving drilling and blasting. Water requirement for the project is estimated at 150m³/day. The source of water is Suna River. The mine has obtained permission from the concerned authority.

Based on the informations, documents and clarifications provided by you the SEIAA here by accords for grant of Environment Clearance in favour of the project for a period of 5 (five) years for production of 702048 TPA iron ore at near village Khandabandh, Dist-Keonjhar under the provisions of the Environment Impact Assessment Notification, 2006,

2009 and subsequent amendment there to under various MOEF, Govt. of India circulars there under and subject to the following stipulated conditions.

2 This Environment Clearance is subject to the grant / approval /sanction of mining lease by the competent authority as required under law. The Environment Clearance will stand automatically cancelled if mining lease is not sanctioned or is cancelled.

Stipulated Conditions:-

- i) The applicant (Project proponent) will take necessary measures for prevention, control and mitigation of Air Pollution, Water Pollution, Noise pollution and Land Pollution including solid waste management as mentioned by him in Form - 1, Final EIA reports and Environment Management Plan (EMP) in compliance with the prescribed statutory norms and standards.
- ii) The applicant will take necessary steps for socio-economic development of the people of the area on need based assessment for providing employment, education, health care, drinking water and sanitation, road and communication facilities etc. after a detailed primary socio-economic survey.
- iii) The applicant will comply to the points, concerns and issues raised by the people during public hearing on 18.2.09 in accordance with the commitments made by him thereon.
- iv) The applicant will take statutory clearance/ approval/permission from the concerned authorities in respect of his project as and when required.
- v) For post-environmental clearance monitoring, the applicant will submit half-yearly compliance report in respect of the stipulated terms and conditions of Environmental Clearance to the State Environmental Impact Assessment Authority (SEIAA), Orissa on 1st June and 1st December of each calendar year.
- vi) The core zone should be monitored intensively with number of stations as prescribed by CPCB, Delhi and unit of pollutant level should be expressed as NAAQ standards of CPCB, Delhi. The detail methodology adopted for analysis of samples shall be clearly indicated and should be in accordance of NAAQs.
- vii) The proponent shall submit ground tooting baseline data on flora and fauna and CSR activities already carried out within three months to the SEIAA.
- viii) Adequate buffer zone shall be maintained between two consecutive mineral bearing deposits.
- ix) Zero waste mining concept shall be implemented either by putting up pelletisation plant or disposing off of low grade ores/fines to the prospective buyers.
- x) The following shall be implemented viz. (a) dump run-ff should be diverted into setting ponds (b)adequate rain water harvesting and ground water recharging facilities should be adopted in the core zone; (c) attempt should be made to achieve zero water balance.

- xi) Maintenance of roads through which transportation of ores are undertaken shall be carried out by the project proponent regularly at his own cost.
- xii) Fugitive dust generation shall be controlled and regularly monitored at locations of nearest human habitation (including schools and other public amenities located nearest to sources of dust generation as applicable) and records shall be submitted to the SEIAA, Orissa annually.
- xiii) Transportation of ore shall be done by covering the trucks with tarpaulin or other suitable mechanism so that no spillage of ore/ dust takes place.
- xiv) Monitoring of ground and surface water quality shall be regularly conducted and records should be maintained and data shall be submitted regularly to the SEIAA, Orissa.
- xv) The proponent shall ensure that no silt originating due to mining activity is transported in the surface water course. Measures for prevention and control of soil erosion and management of silt shall be undertaken. Protection of dumps against erosion shall be carried out with geo textile matting or other suitable materials, and thick plantations of native trees and shrubs shall be carried out at the dump slopes. Dumps shall be protected by retaining walls.
- xvi) Trenches/ garland drains shall be constructed at foot of dumps to arrest silt from being carried to water bodies. Adequate number of Check Dams shall be constructed across seasonal/perennial nallahs (if any) flowing through the ML area and silts be arrested. De-silting at regular intervals shall be carried out.
- xvii) Provision shall be made for the housing of the labourers within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- xviii) Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. The Proponent shall engage a full time qualified doctor who is trained in occupational health. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures undertaken (at interval of five years or less) shall be conducted followed by follow up action, wherever required. Occupational Health Centre shall be established near the mine site itself.
- xix) Shelter belt, i.e. Wind Break of 15 m width and consisting of at least 5 tiers around lease facing the human habitation, school/ agricultural fields etc. (if any in the vicinity), in the safety zone/ back-filled & reclaimed areas, around voids and roads shall be raised. Green belt development and selection of plant species shall be as per CPCB guidelines. Density of the trees has to be around 2500

pants per hectare. Herbs and shrubs shall also form a part of afforestation programme besides tree plantation. Help and guidance of local DFO may be sought in the matter. Details of year-wise afforestation programme including rehabilitation of mined out area shall be submitted to the SEIAA, Orissa within six months.

- xx) The environmental clearance is subject to Forest clearance under the Forest (Conservation) Act, 1980.
- xxi) The mining operations shall be restricted to above ground water table and it should not intersect the groundwater table. The depth of mine should be restricted to the depth mentioned in Form 1-A at the most.
- xxii) The top soil shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long (not more than 3 years). The topsoil shall be used for land reclamation and plantation.
- xxiii) The over burden (OB) 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. Proper terracing of OB dump shall be carried out so that the overall slope shall not exceed 28°. Backfilling shall be done as per approved mining plan mine closure plan. Back-filling to start from 3rd year onwards of the mining operation & the entire quantity of waste generated shall be backfilled and used within five years. There shall be no external over-burden dumps after the 6th year of the mining operation. The backfilled area shall be afforested. Back-filling has to be done in a manner that it is restored to the normal ground level. Monitoring and management of rehabilitated areas should continue till the vegetation is established and becomes self-generating. Compliance status shall be reported to the appropriate authorities.
- xxiv) The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this funds shall be diverted for other purposes like regular maintenance of vehicles/ machineries/ purchase or salary of staff. Year-wise expenditure for this fund should be reported to the SEIAA, Orissa.
- xxv) The critical parameters such as SPM, RSPM, 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, the 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 to in this regard for its compliance.
- xxvi) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the SEIAA 5 years in advance of final mine closure for approval.

- xxvii) The project proponent shall obtain necessary prior permission of the competent authorities for drawal of requisite quantity of water (Surface water and ground water) required for the project.
- xxviii) The project proponent shall prepare wild life conservation plan in consultation with DFO and adequate safety and mitigation measures should be incorporated to protect the wildlife, flora, fauna to mitigate the adverse impacts of mining on them.
- xxix) The above mentioned stipulated conditions shall be complied in time bound manner. Failure to comply with any of the conditions mentioned above may result in withdrawal of this environmental clearance and attract action under the provisions of Environment Protection (EP) Act, 1986.


Member Secretary

Memo No. _____

Dt. _____

Copy to:

1. Ministry of Environment & Forests Govt. of India, Paryavaran Bhawan, C.G.O. Complex, Lodhi Road, New Delhi-110003 for kind information.
2. Principal Secretary to Govt., Forests & Environment Dept. for kind information.
3. Chairman, State Pollution Control Board, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-8, BBSR for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandra Sekharpur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi, 110032 for kind information.
6. The Collector, Dist- Keonjhar, for kind information and necessary action.
7. Copy forwarded to the Chairman/ Member Secy. / Member, SEIAA for kind information.
8. Chairman SEAC/Secretary SEAC, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
9. Guard file for records.

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Member Secretary



**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
(SEIAA), ODISHA.**

(Constituted vide Order No. S.O. 3387 (E) Date 15.12.2015 of Ministry of Environment Forest & CC, Govt. of India,
Under Environment Protection Act, 1986.)
Qr. No. 5RF-2/1, Unit - IX, Bhubaneswar - 751022
E-mail : seiaaorissa@gmail.com

Ref. No. 3486/SEIAA
File No. SEIAA-153/2010

Date 30.08.17

From

Shri S.K. Sinha, IFS
Member Secretary,
State Environment Impact Assessment Authority (SEIAA), Odisha,
Bhubaneswar

To

M/s Shree Metaliks Ltd.
Post Box No. 28, Gurudwar Road,
At/Po-Barbil-758035
Dist-Keonjhar

Sub: Proposal for Khandabandh Iron Ore Mining Proejct for production of 702048 TPA
Iron Ore at near village Khandabandh, DistKeonjhar of M/s Shree Metaliks-
Extension of Environmental Clearance regarding.

Sir,

With reference to your letter no.SML/BBL/17-18/06 dated 01.08.2017 on the
above mentioned subject, I am directed to say that the State Environment Impact
Assessment Authority, Odisha have considered the extension of time period of
Environmental Clearance for the above project in its meeting held on 19.08.2017.

Considering the information/documents furnished by the project proponent, the
State Expert Appraisal Committee (SEAC) as per order passed by the Hon'ble High
Court, Delhi as well as Odisha and considerations of the relevant documents submitted
by the project proponent have recommended for extension of validity period of
environmental clearance granted to M/s Shree Metaliks in the district of Keonjhar upto
30 years or period of lease whichever is less.

The SEIAA, Odisha after due consideration under the provisions of EIA
Notification 2006 and 2009 and subsequent amendments thereto and as per the
directions of the Hon'ble High Court of Odisha hereby grant extension of time period of

(Contd.)

environmental clearance in favour of the project upto 30 years or period of lease whichever is less subject to strict compliance of the terms and conditions stipulated in the environment clearance given vide E.C letter no. 362/SEIAA dated 06.09.2010 which remain unaltered and will be followed / strictly adhere to.

Yours faithfully,


30/08/17
Member Secretary

Memo No 3487/SEIAA/Dt. 30.08.17
Copy to

1. Joint Secretary (Env.), Ministry of Environment, Forests and Climate Change Govt. of India, Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi-110003 for information.
2. Principal Secretary, Forests & Environment Dept., Government of Odisha for information.
3. Chairman, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for information.
6. Collector & District Magistrate, Keonjhar for kind information and necessary action.
7. Chairman/Member/Member Secretary, SEIAA for information.
8. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for information.
9. Guard file for record.


30/08/17
Member Secretary