

No. J-11015/165/2011-IA.II (M)
Government of India
Ministry of Environment and Forests
Impact Assessment Division

Paryavaran Bhavan,
C.G.O. Complex, Lodi Road,
New Delhi-110 003

Dated: 10th September, 2013

To

M/s Rungta Sons Pvt. Limited

Rungta Office, Main Road, Barbil
District-Keonjhar,
Orissa, Pin-758035

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Subject: Renewal of mine lease and increase in production from 1.94 million TPA to 5.0 million TPA (ROM) and setting of Wet Beneficiation plant with a throughput capacity of 1.5 million TPA of Oraghat Iron Ore Mine of M/s Rungta Sons Pvt. Ltd. located at Village Oraghat and Sanindpur, District Sundergarh, Odisha (82.961ha)-Environmental Clearance regarding.

Sir,

This has reference to your letter no. RM/ED/Geo/2012-13/3639, dated 24.11.2012 and subsequent letter dated 12.04.2013 on the proposal of renewal of mine lease and increase in production from 1.94 million TPA to 5.0 million TPA (ROM) and setting of Wet Beneficiation plant with a throughput capacity of 1.5 million TPA of Oraghat Iron Ore Mine. The project site is located at Village Oraghat and Sanindpur, District Sundergarh, Odisha.

2. The Ministry has earlier accorded the environmental clearance vide letter No. J-11015/23/2007-IA.II (M), dated 27.09.2007 for a production of 1.94 million TPA of iron ore. The Ministry had prescribed TORs for enhancement of production capacity from 1.94 million TPA to 5.0 million TPA (ROM) and setting of Wet Beneficiation plant with a throughput capacity of 1.5 million TPA (ROM) of Oraghat Iron Ore Mine on 25.10.2011. The Proponent after conducting public hearing on 19.07.2012 submitted EIA/EMP report for seeking environmental clearance. The proposal for environmental clearance was placed in the 4th Meeting of the Reconstituted Expert Appraisal Committee held during February 20th-22nd, 2013. Further, the proposal was reconsidered in the 8th Meeting of the Expert Appraisal Committee held during June 26th -28th, 2013 wherein the Committee recommended the proposal for environmental clearance.

3. The proposal is for enhancement of production capacity from 1.94 million TPA to 5.0 million TPA (ROM) and setting of Wet Beneficiation plant with a

throughput capacity of 1.5 million TPA (ROM) of Oraghat Iron Ore Mine. The Mine lease area is 82.961 ha, which include 74.933 ha of forestland. Stage-I forestry clearance for an area of 64.133 ha has been obtained vide MoEF letter no. 8-18/2011-FC, dated 01.03.2011. Stage-II clearance has been obtained for 10.8 ha on 04.05.2006.

4. The project is located between Latitudes $21^{\circ} 55' 9.163''$ N – $21^{\circ} 55' 44.1''$ N and Longitude $85^{\circ} 18' 13.201''$ E – $85^{\circ} 19' 13.969''$ E. No National Park/ Sanctuary/ Biosphere Reserve/Tiger Reserve/ Elephant Reserve/Archaeological Sites are reported within 10 km radius. The Reserve Forests namely Mendhamarum, Siddhmath, Baitarani, Kathamala, Karo, Bhabhani Paharh and Lakrhaghat Reserve Forests are located within 10 km radius of the Project site. No court case is reported relating to the project.

5. Mine working will be opencast by mechanized method involving blasting. The Mining Plan with Progressive Mine Closure Plan has been approved by the IBM dated 20.07.2012. The targeted production capacity of the mine is 5.0 million TPA (ROM) and setting of Wet Beneficiation plant with a throughput capacity of 1.5 million TPA (ROM). The life of the mine will be 10 years. Approximately 16,660 TPD of mineral will be transported through road. The ultimate working depth of the mine will be 550m RL (32m). The water table in the core zone varies from 543m to 548m RL. Mine working will not intersect groundwater table. Peak water requirement of the project is estimated as 2010m^3 per day, out of which 1808m^3 per day will be sourced from Suna nadi and remaining 202m^3 per day from ground water. The agreement for supply of water from Suna nadi between PP & Sundergarh Irrigation Division, Orissa was made on 22.06.2010. The Ground Water withdrawal permission has been taken from the Central Ground Water Authority vide letter no. 21-4(190)/CGWA/SER/2009/626, dated 10.02.2010. Approximately 11.12 lakhs m^3 of waste will be backfilled in 30.116ha of the mined out area. About 12.18 lakhs m^3 of tailing will be generated from the wet beneficiation plants till the life of the mine which will be used for backfilling and filter pressed.

6. The Public Hearing was held on 19.07.2012 under the Chairmanship of Shri Rabindra Nath Mishra, Additional Deputy Magistrate, Rourkela, District Sundergarh. The representative from the Regional Officer, SPCB, Rourkela, Odhisa was also present. The issues raised by public were addressed by the project proponent with commitment for implementation.

7. The capital cost of the project is Rs. 200 Crores. It is reported that expenses of Rs. 6.46 Crores has already been spent. A budget for environmental protection measures is Rs. 70.35 lakhs towards capital cost and Rs. 59.43 lakhs per annum towards recurring cost have been made.

8. The Ministry of Environment and Forests has examined the proposal in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and hereby accords the environmental clearance under the provisions thereof to the above mentioned proposal of M/s Rungta Sons Pvt. Ltd. for enhancement of production capacity from 1.94 million TPA to 5.0 million TPA (ROM) and setting of Wet Beneficiation plant with a throughput capacity of 1.5 million TPA (ROM) of Oraghat Iron Ore Mine in the Mine lease area

of 82.961 ha, located at Village Oraghat and Sanindpur, District Sundergarh, Odisha subject to compliance of the followings terms and conditions and environmental safeguards mentioned below:

A. Specific conditions

- (i) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent authority, as may be applicable to this project.
- (ii) No mining activities will be allowed in forest area for which the Forest Clearance is not available.
- (iii) The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Orissa and effectively implement all the conditions stipulated therein.
- (iv) Implementation of the site specific conservation plan for the core & buffer zone which has been approved by PCCF, Wildlife, Odisha.
- (v) Implementation of Environment Management Policy of the Company w.r.t. judicious use of Mineral resources for growth & development synchronizing mining & environment with prosperity.
- (vi) The pollution due to transportation load on the environment will be effectively controlled & water sprinkling will also be done regularly. Vehicles with PUCC only will be allowed to ply.
- (vii) There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis in consultation with Regional Director, Central Groundwater Board and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.
- (viii) Regular monitoring of ground water table to be carried out at the upstream and depth of water available in the dug well is to be measured. Monitoring to be done by establishing a network of existing wells and constructing new piezometers.
- (ix) A study is required to be conducted to identify presence of natural water course or any water resources in both buffer and core zone in the monsoon season.
- (x) Monitoring of Ambient Air Quality to be carried out based on the Notification, as amended from time to time by the Central Pollution Control Board.
- (xi) Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.
- (xii) The upliftment of scheduled caste/scheduled tribe population, specific programmes have been taken in to consideration specially with respect to

education, health care, livelihood generation, infrastructure development & promotion of sports & culture for SC/ST population and that these will be intensified in future.

- (xiii) The mining operations shall be restricted to above ground water table and it should not intersect groundwater table. In case of working below ground water table, prior approval of the Ministry of Environment and Forests and Central Ground Water Authority shall be obtained, for which a detailed hydro-geological study shall be carried out.
- (xiv) The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations.
- (xv) 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. 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. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional Office located at Bhubaneswar on six monthly basis.
- (xvi) Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river 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 monsoon and maintained properly. The drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and over burden dumps to prevent run off of water and flow of sediments directly into the river 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 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 desilted at regular intervals.
- (xvii) Dimension of the retaining wall at the toe of over burden dumps and OB benches within the mine to check run-off and siltation shall be based on the rain fall data.
- (xviii) Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of

SPM and RSPM such as haul road, loading and unloading point and transfer points. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

- (xix) 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.
- (xx) Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and record of monitoring data should be maintained and submitted to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Groundwater Authority, Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board.
- (xxi) 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 constructing new piezometers during the mining operation. The monitoring shall be carried out four times in a year – pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment and Forests and its Regional Office, Bhubaneswar, Central Ground Water Authority and Regional Director, Central Ground Water Board.
- (xxii) The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.
- (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. The mineral transportation shall be carried out through covered trucks only and the vehicles carrying the mineral shall not be overloaded.
- (xxiv) 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. Drills shall either be operated with dust extractors or equipped with water injection system.
- (xxv) Mineral handling plant 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.
- (xxvi) 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.

- (xxvii) The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna namely leopard, elephant 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.
- (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, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (xxix) The proponent shall complete all the tasks as per the action plan submitted with the budgetary provisions during the public hearing held on 19.07.2012.
- (xxx) A Final Mine Closure Plan along with details of Corpus Fund shall be submitted to the Ministry of Environment & Forests 5 years in advance of final mine closure for approval.

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.
- (ii) No change in the calendar plan including excavation, quantum of mineral iron ore, beneficiation plant and waste should be made.
- (iii) Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, SO₂ & NO_x 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.
- (iv) Data on ambient air quality (RSPM, SPM, SO₂ & NO_x) should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central Pollution Control Board 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.

- (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.
- (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 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.
- (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.
- (ix) 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.
- (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.
- (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 and its Regional Office located at Bhubaneswar.
- (xii) 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.
- (xiii) 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 data / information / monitoring reports.
- (xiv) The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Pollution Control Board and State Pollution Control Board.
- (xv) The project proponent shall submit six monthly report on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Bhubaneswar, Central Pollution Control Board and State Pollution Control Board.
- (xvi) A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.

- (xvii) State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.
- (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 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 Bhubaneswar.
9. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
10. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. 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 Hon'ble Supreme Court of India/ High Court of Orissa and any other Court of Law relating to the subject matter.
12. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

(Dr. Saroj)
Director

Copy to:

1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
2. The Secretary, Department of Environment, Government of Orissa, Secretariat, Bhubaneswar.
3. The Secretary, Department of Mines and Geology, Government of Orissa, Secretariat, Bhubaneswar.
4. The Secretary, Department of Forests, Government of Orissa, Secretariat, Bhubaneswar.
5. The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests, A-3 Chandrashekharpur, Bhubaneswar-751023.

6. The Chairman, Orissa State Pollution Control Board, Parivesh Bhawan, A/118 Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
7. The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
8. The Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001
9. The District Collector, Sundergarh District, State of Orissa.
10. Guard File
11. MoEF Website

(Dr. Saroj)
Director