

By Speed Post

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 Government of India
 Ministry of Environment & Forests

534, Paryavaran Bhavan,
 C.G.O. Complex, Lodi Road,
 New Delhi-110 003
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Dated the 24th September, 2012

To

Anand Exports
 H.O. 428/3818
 Jaydev Nagar
 Near Panthanivas
 Bhubaneshwar - 751002
 Odisha

Subject: Expansion and modification of Ore Beneficiation (COB) Plant of M/s Anand Exports located at District Jajpur, Odisha - environmental clearance - regarding.

Sir,

This has reference to your letter dated 24-02-2011 and subsequent letters 02-04-2012, 21-04-2012 on the subject mentioned above. The project was earlier prescribed Terms of Reference (TORs) by the Ministry of Environment and Forests on 30.7.2010 for undertaking detailed EIA study for the purpose of obtaining environmental clearance.

2. The proposal is for modification and expansion of existing ore beneficiation plant from 1,000 TPA to 1,20,000 TPA throughput capacity. The raw material for the beneficiation plant will be obtained locally from Sukinda area within 16 - 17 km from the project site.

3. The land requirement for the project is estimated as 5.37 ha, which is agricultural land and it includes 3.11 ha for tailing disposal and 1.73 ha for greenbelt. The area is located at latitude 20°55'29" N and longitude 86°02'15" E. There is no wildlife sanctuary or National park, Tiger/ Elephant reserve and Elephant corridor within the 10 km periphery of project. River Brahmani is at 4 km of SE of COB plant.

4. The proposed beneficiation plant will be based on wet technology with filter press which will be added after the tailing thickener to generate rejects in the form of filter cake. Water requirement is 78 kld, which will be obtained from bore well. It is estimated that 55,200 tonnes per year of tailings will be generated. The tailings will be disposed in tailing dump in wet cake form after drying in slime pond. The life of the plant is considered as 20 years. Accordingly, an area of 3.11 ha has been proposed for the tailing disposal. The area will be lined with the HDPE lining. The tailing disposal area as also the raw material stockyard will be provided with garland drains to contain surface run off.

5. Public hearing has been held on 21.12.2011. The capital cost of the project is Rs. 960 lakhs and the cost for the environment protection measures is proposed as Rs. 93.76 lakhs. Rs. 17 lakhs have been earmarked for socio-economic measures.

6. The Ministry of Environment and Forests has examined the application in accordance with the EIA Notification, 2006 and hereby accords environmental clearance under the provisions thereof to the above mentioned Ore Beneficiation Plant of M/s Anand Exports located at District Jajpur, Odisha for the modification and expansion of existing ore beneficiation plant from 1,000 TPA to 1,20,000 TPA throughput capacity, subject to implementation of the following conditions and environmental safeguards.

A. Specific Conditions

- i. The Environment Clearance is co-terminus with the mine lease.
- ii. The project proponent shall obtain Consent to Establish and Consent to Operate from the State Pollution Control Board, Orissa and effectively implement all the conditions stipulated therein.
- iii. Environmental clearance is subject to final order of the Hon'ble 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.
- iv. The drainage from the plant area should be contained within the plant. No surface run off should be allowed to go outside the plant premises.
- v. The Company shall submit within 3 months their policy towards Corporate Environment Responsibility which should inter-alia provide for (i) Standard operating process / process to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions, (ii) Hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions and (iii) System of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders.
- vi. Closed crusher shall only be installed.
- vii. The effluent treatment plant shall be provided for treatment of ore.
- viii. The particulate level shall be monitored for presence of chromium, if any.
- ix. The storage area, both for raw material as also the tailings will be lined with HDPE lining.
- x. Water quality both groundwater and surface water shall be monitored for any possible leaching taking place. In case, any leaching of chromium is observed, immediate necessary safeguard measures shall be implemented.
- xi. Soil quality shall be monitored in and around the plant for chromium content.
- xii. Prior permission for drawl of requisite quantity of ground water for the project shall be obtained from the State Government Water Board / Central Ground Water Authority.
- xiii. The rainwater harvesting shall be adopted in consultation with the Regional Director, Central Ground Water Board.

- xiv. As part of ambient air quality monitoring during operational phase of the project, the air samples shall also be analyzed for their mineralogical composition and records maintained.
- xv. The water recovery and spill way system shall be so designed that the natural water resources are not affected and that no spill water from the plant goes into the Brahmani river or any other water body.
- xvi. The filter cake shall be disposed at the earmarked site only, which shall be above highest water table and shall be lined with HDPE lining to prevent any leaching from the filter cake disposal site into groundwater.
- xvii. Effective safeguard measures such as conditioning of ore with water, regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of particulate matter such as around crushing and screening plant, loading and unloading point and transfer points. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
- xviii. The project authority shall implement suitable water conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.
- xix. 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 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 Bhubneswar, 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.
- xx. The water quality of Brahmani river, upstream and downstream of the project shall be monitored regularly and records maintained. It shall be ensured that the quality of water in the Brahmani river is not affected adversely due to this project.
- xxi. Greenbelt shall be raised in an area of 1.73 ha in consultation with the local DFO/Agriculture Department. The density of the trees shall be around 1500 - 2000 plants per ha. Greenbelt shall be developed all along the plant area in a phased manner and shall be completed within first five years.
- xxii. 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.
- xxiii. The proponent should evolve, if not already having a well laid down Environment Policy approved by its Board of Directors. It should inter-alia prescribe for standard operating process/ procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions. Hierarchical system or Administrative

order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions should also be clearly spelt out. Details in this regard should be furnished.

- xxiv. 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.

B. General Conditions

- (i) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- (ii) At least 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 micron i.e., PM₁₀) and 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. The data so recorded 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.
- (iii) Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in high noise areas, etc. should be provided with ear plugs / muffs.
- (iv) Industrial waste water 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.
- (v) 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.
- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) 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.

- (x) 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.
- (xi) 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 e-mail) to the Ministry of Environment and Forests, its Regional Office Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and 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, Bhubaneswar, **the respective Zonal Officer of Central Pollution Control Board and the State Pollution Control Board.**
- (xii) 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.
- (xiii) 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.
- (xiv) The environmental statement for each financial year ending 31st 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 respective Regional Office of the Ministry of Environment and Forests, Bhubaneswar by e-mail.
- (xv) The project authorities should advertise at least in two local newspapers of the District or State in which 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 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.

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.

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 Hon'ble Supreme Court of India/ High Court of Orissa and any other Court of Law relating to the subject matter.

10. 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.

Neeraj Khatri
(Neeraj Khatri)
Deputy Director

Copy to:

- (i) The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- (ii) The Secretary, Department of Environment, Government of Orissa, Secretariat, Bhubaneswar.
- (iii) The Secretary, Department of Mines and Geology, Government of Orissa, Secretariat, Bhubaneswar.
- (iv) The Secretary, Department of Forests, Government of Orissa, Secretariat, Bhubaneswar.
- (v) The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
- (vi) The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests, A-3 Chandrashekharpur, Bhubaneswar-751023.
- (vii) The Chairman, Orissa State Pollution Control Board, Parivesh Bhawan, A/118 Nilakantha Nagar, Unit-VIII, Bhubaneswar-751012.
- (viii) The Controller General, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- (ix) The Member Secretary, Central Ground Water Authority, A2, W3 Curzon Road Barracks, K.G. Marg, New Delhi-110001.
- (x) The District Collector, Keonjhar District, Government of Orissa.
- (xi) EI Division, Ministry of Environment & Forests, EI Division, New Delhi.
- (xii) Monitoring File.
- (xiii) Guard File.
- (xiv) Record File.

Neeraj Khatri
(Neeraj Khatri)
Deputy Director