

F. No. J-11011/45/2012-IA II (I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(I.A. Division)

Annexure III

Indira Paryavaran Bhawan  
Jor Bagh Road, Aliganj,  
New Delhi - 110003  
E-mail: satish.garkoti@nic.in  
Tel: 011- 24695316

Dated: ~~26<sup>th</sup>~~ October, 2016  
28<sup>th</sup>

To

M/s Sarda Energy & Minerals Ltd.  
Phase 1, Siltara Industrial Growth Centre,  
Mandhar, Raipur, Chattisgarh - 493111.

**Subject: "Regularization of existing 6,00,000 TPA Iron Ore Pelletization Plant", located at Phase 1, Siltara Industrial Growth Centre, Mandhar, District Raipur Chhattisgarh by M/s Sarda Energy & Minerals Ltd.- Environmental Clearance regarding.**

Sir,

This has reference to your online application No. IA/CG/IND/25977/2014 Dated 4<sup>th</sup> June, 2016 along with copies of EIA/EMP report seeking environmental clearance under the provisions of the EIA Notification, 2006 for the project mentioned above. The ToR's for the proposal were prescribed by MoEFCC vide letter No. F. No.J-11011/45/2012-IA-II(I) dated 7<sup>th</sup> July, 2015 for the preparation of EIA-EMP report. The proposed project activity is listed at S.No. 3(a) in primary metallurgical industry under Category 'A' of the Schedule of EIA notification 2006 and appraised by the Expert Appraisal Committee (Industry -I) of Ministry of Environment, Forest and Climate Change.

2.0 The project of M/s Sarda Energy & Minerals Limited located at Phase 1 of Siltara Industrial Growth Centre, Village - Mandhar, Raipur is for regularization of their 0.6 MTPA Iron Ore Pellet Plant (operational) along with installation of 10 numbers Coal Gasifier to produce 27,046 Nm<sup>3</sup>/Hr of producer gas (Fuel replacement for pellet plant) and Expansion of 7,00,000 TPA Iron Ore Grinding to 10,00,000 TPA Iron Ore Grinding & Beneficiation Plant. However, the instant clearance is considered only for regularization of 0.6 MTPA of operating iron ore pellet plant. The existing project is located on 24.024 ha land, out of the total 204.452 ha which is in industrial area. No forestland involved. It has been reported that no water body exist around the project. The topography of the area is flat and fall between 21°20'42.57" N to 21°20'36.22" N Latitude and 81°41'10.57" E to 81°41'48.24" E Longitude in Survey of India topo sheet No. 64 G/11, at an elevation of 282m MSL. The pre-monsoon ground water level in the district varies from 1.69 m to 13.97 m below ground level with an average value around 5 m to 8 m below ground level and the post-monsoon water level varies from 0.87 m to 7.05 m below ground level with an average around 2 m to 5 m below ground level. No national park/wildlife sanctuary/biosphere reserve/tiger reserve/elephant reserve etc. are reported to be located within the core and buffer zone of the project. The area also does not report to form corridor for Schedule-I fauna.

3.0 The proposed project is for regularization of their 0.6 MTPA Iron Ore Pellet Plant (operational). The ore for the plant would be procured from 30% Captive Mines

Rajnandgaon, 70% NMDC (Bacheli, CG)/Local Market. The ore transportation will be done through by road & rail.

4.0 The water requirement of the project is estimated at 1582 m<sup>3</sup>/day which will be obtained from Kharoon River (2 MGD + 1.25 MGD water has been allocated by Water Resources Dept, GoCG). The power requirement of the project is estimated as 8614 KW, which will be obtained from the CSPDCL & Captive Source.

5.0 The major solid wastes for existing Pellet Plant is ESP & Bag filter collected dust and for proposed expansion it will be Ash, Tar, and Tailings etc. The fines collected from the material handling and dust collected in the pollution control equipment is recycled as raw material in the pellet plant.

6.0 It has been reported that the Consent to Establish and Consent to Operate for 0.6 MTPA Iron Ore Pellet Plant along with grinding unit is obtained from the Chhattisgarh State Environment Conservation Board.

7.0 The capital cost of the project is Rs. 31665 Lakhs and the capital cost for environmental protection measures is proposed as Rs. 1550 Lakhs. The annual-recurring cost towards the environmental protection measures is proposed as Rs. 150 Lakhs. The proponent has mentioned that there is no court case to the project or related activity.

8.0 The proposal was considered by the Expert Appraisal Committee (EAC) for Industry-I during its 9<sup>th</sup> meeting held on 27<sup>th</sup> to 29<sup>th</sup> July, 2016. The Committee is of the opinion that, as per NGT order, the court has directed the existing pelletization units to apply for regularization of their units. However, the present proposal is for regularization of the existing pellet plant as well as expansion by adding 10 Nos Coal Gasifier Plant (Fuel Replacement for Pellet Plant) – 27,46 Nm<sup>3</sup>/Hr and expansion of Iron Ore Grinding Unit to Iron Ore Grinding & Beneficiation Plant – 10,00,000 TPA. The Committee advised the PP that a separate application should be made for expansion proposal. Presently the committee will provide its recommendations for the existing pellet plant. Therefore, based on the presentation made and discussions held the Committee recommended the project of regularization of existing 6,00,000 TPA Iron Ore Pelletization Plant for environment clearance subject to stipulation of the specific conditions and any other mitigative measures, as prescribed by the Ministry for environmental protection.

9.0 The Ministry of Environment, Forest and Climate Change has considered the application based on the recommendations of the Expert Appraisal Committee (Industry-I) and hereby decided to grant environmental clearance to the proposal of "Regularization of existing 6,00,000 TPA Iron Ore Pelletization Plant" of M/s Sarda Energy & Minerals Ltd., under the provision of EIA Notification dated 14<sup>th</sup> September, 2006, as amended, subject to strict compliance of the following Specific and General conditions:


**A. SPECIFIC CONDITION:**

- i. The project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.



- ii. Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm<sup>3</sup> and installing energy efficient technology.
- iii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
- iv. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.
- v. The PP shall install scrubber or upgrade the existing scrubbers within one year to reduce SO<sub>x</sub> emission which will be verified by the regional office.
- vi. Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.
- vii. The internal roads should be designed such that the fire tenders should reach upto 10 meters of any unit.
- viii. 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- ix. Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent.
- x. Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office, SPCB and CPCB.
- xi. A time bound action plan shall be submitted for reduction in solid waste, its proper utilization and disposal.
- xii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office at Nagpur.
- xiii. A Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.
- xiv. Green belt shall be developed in at least 33% of the project area by planting native and broad leaved species in consultation with local DFO and local communities as

per the CPCB guidelines. The green belt should be developed within 1 year time from the date of grant of Environmental Clearance.

- xv. At least 2.5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured by constituting a Committee comprising of the proponent, representatives of village Panchayat and District Administration. Action taken report in this regard shall be submitted to the Ministry's Regional Office.
- xvi. The proponent shall prepare a detailed CSR Plan for every year for the next 5 years for the existing-cum-expansion project, which includes village-wise, sector-wise (Health, Education, Sanitation, Health, Skill Development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with the local communities and administration. The CSR Plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the Companies Act, 2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate budget head shall be created and the annual capital and revenue expenditure on various activities of the Plan shall be submitted as part of the Compliance Report to RO. The details of the CSR Plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the company. The plan so prepared shall be based on SMART (Specific, Measurable, Achievable, Relevant and Time bound) concept. The expenditure should be aimed at sustainable development and direct free distribution and temporary relief should not be included.
- xvii. The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- xviii. The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.
- xix. The project proponent shall provide for LED lights in their offices and residential areas.
- xx. 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. The project authorities must strictly adhere to the stipulations **Annexure III**, Chhattisgarh Environment Conservation Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEFCC).
- iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.
- iv. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEFCC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Nagpur. The funds so provided shall not be diverted for any other purpose.
- x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/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 web site of the company by the proponent.

- xii. The project proponent shall upload the status of compliance of the stipulated environment 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 MOEFCC at Nagpur. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xiii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEFCC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Nagpur / CPCB / SPCB shall monitor the stipulated conditions.
- xiv. The environmental statement for each financial year ending 31<sup>st</sup> 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 conditions and shall also be sent to the respective Regional Office of the MOEFCC at Nagpur by e-mail.
- xv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment, Forests and Climate Change (MoEFCC) at <http://envfor.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Nagpur.
- xvi. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

10.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

11.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.


12.0 The above conditions shall 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, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

  
(Dr. Satish C. Garkoti)  
Scientist 'F'

**Copy to:-**

**Annexure III**

1. The Secretary, Department of Environment, Government of Chhattisgarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, Chhattisgarh Environment Conservation Board, "Chhattisgarh Housing Board Colony, Commercial Complex, Kabir Nagar, Raipur, Chhattisgarh.
4. The Additional Principal Chief Conservator of Forests (C) of Ministry of Environment Forest and Climate Change, Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440001.
5. Guard File / Record File/Monitoring file.

  
**(Dr. Satish C. Garkoti)**  
**Scientist 'F'**