

F. No. J-11011/522/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: November 3rd, 2010

To,
The Vice President,
M/s Prakash Industries Limited
Srivan, Bijwasan, New Delhi- 110 061

Ph: 28061408 Fax: 28062119
E-mail: sanjayjain@prakash.com

Sub: Expansion of Integrated Steel Plant at Village Hathneura near Champa District Janjgir- Champa in Chhattisgarh by M/s Prakash Industries Limited - Environmental Clearance reg.

Sir,

This has reference to your letter no. PIL/MOEF/0610 dated 26th June, 2010 along with a copy of EIA/EMP report and subsequent communication dated 29th September, 2010 seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the application for the above project. It is noted that M/s Prakash Industries Ltd. have proposed for the expansion of Integrated Steel Plant at Village Hathneura, Janjgir- Champa in Chhattisgarh. Total project area is 603 acres and expansion will be carried out in the existing plant area. No additional land is required. Green belt will be developed in 159 acres of plant area. No national park / wild life sanctuary / eco-sensitive area is located within 10 km radius. Total cost of the project is Rs. 2,240.0 Crores. Rs. 100.0 Crores and Rs. 20 Crores will be earmarked towards capital cost and recurring cost/annum for environmental protection measures.

3. Following are the details of existing and proposed plants.

Units	Existing capacity	Proposed Capacity	Total capacity
Sponge Iron Plant	0.7 MTPA	1.3 MTPA	2.0 MTPA
Captive Power plant			
Co-generation power plant (WHRB)	37 MW	63 MW	100 MW
Coal based power plant	87.5 MW	100 MW	187.5 MW
BF gas based power plant	Nil	20 MW	20 MW
Total	124.5 MW	183 MW	307.5 MW
Ingots/Billets/Blooms	1.0 MTPA	1.0 MTPA	2.0 MTPA
TMT/Wire rod Mill	Nil	0.6 MTPA	0.6 MTPA
Blast Furnace	Nil	1.0 MTPA from 4 x 350 M3 Blast Furnace	1.0 MTPA
Ferro alloy plant	9 x 7.5 MVA (1,15,000 TPA)	Nil	1,15,000 TPA from 9 x 7.5 MVA

			submerged arc furnaces (SAF)
Sinter Plant	Nil	1.45 MTPA	1.45 MTPA
Oxygen Plant	Nil	800 TPD	800 TPD

4. It is noted that ESP will be provided to WHRB, CPP, DRI Kiln and Sinter Plant to control particulate emissions less than 50 mg/Nm³. Dust settling chamber (DSC) for settling the dust and After Burning Chamber (ABC) for burning CO will be provided and gases will be passed through WHRB to generate power. Fume Extraction System to SMS and SAF will be provided. DRI kiln and blast furnace gas will be used in WHRB to produce power. Water sprinkling devices will be installed to suppress the dust at material storage yard. Closed conveyors and bag houses will be provided to reduce fugitive dust emissions. Dust extraction system will be provided to raw material handling system. Bag filters will be provided at all junction houses, crushing and screening plants for iron ore, coal and dolomite. Dry fog dust suppression system will be provided to raw material handling unit and dump yard. Venturi scrubber to control the emission from the blast furnace will be installed and water required for the same will be met from the River Hasdeo.

5. Total water requirement for the proposed expansion will be 18.25 MCM/annum and will be met from the river Hasdeo. Re-circulating cooling system will be used to conserve water. ETP will be installed for the treatment of wastewater. All the treated wastewater will be fully recycled. The wastewater from Gas Cleaning Plant of Blast Furnace containing suspended solids will be treated in ETP. Cooling tower blow down water after treatment in ETP will be used for dust suppression in the plant premises. Treated STP waste water will be used for green belt development. There will be zero discharge of effluent.

6. Coal and char will be used in FBC boiler. BF slag will be granulated in slag granulation plant and provided to cement manufacturers. Coke breeze, fuel dust, mill scales will be used in sinter plant. Scales from the rolling mill will be used in Sinter plant. The fly ash and bottom ash will be used for brick and road making or will be sold to Cement plants. ESP dust will be used in fly ash bricks and also for back filling in mines. Accretion material and wet scrubber dust will be used in road making. The slag from the steel melting shop will be given for metal recovery and dust will be reused in the sinter plant. Spent oil and lubricants will be given to authorized re-processors. DRI kiln, BF gas will be used as fuel to generate power. LDO / HFO will be used as fuel.

7. All the Integrated Steel plants are listed at S.No. 3(a) under Category 'A' of the Schedule of EIA Notification, 2006 and appraised at the Central level.

8. The proposal was considered by the Expert Appraisal Committee-1 (industry) in its 14th meeting held during 23rd - 25th September, 2010. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions.

9. Based on the information submitted by you, presentation made by you and consultant, EMTRC, Consultants Pvt. Ltd, New Delhi . the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS :

- i. Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack

monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), gas cleaning plant, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology.

- ii. As proposed, Electrostatic precipitator (ESP) shall be provided to sponge iron plant, WHRB, CFBC, and dust catcher to blast furnace to control PM levels within 50 mg/Nm³. Fume extraction system shall be provided to induction furnaces and SAF to control the emissions within the prescribed standards.
- iii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th 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 and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed. Standards for the sponge iron plant issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 shall be followed.
- v. Total water requirement shall not exceed 18.25 MCM/annum. Necessary permission from the State Irrigation Department shall be obtained for drawl of water. The water consumption shall not exceed as per the standard prescribed for the steel plants. Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent shall be treated and used for ash handling, dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted. Sanitary sewage should be treated in septic tank followed by soak pit.
- vi. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.
- vii. Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhopal, Chhattisgarh Environment Conservation Board (CECB) and CPCB.
- viii. The char from DRI plant shall be utilized in FBC boiler of power plant and no char shall be used for briquette making or disposed off anywhere else. FBC boiler shall be installed simultaneously along with the DRI plant to ensure full utilization of char from the beginning. All the blast furnace (BF) slag shall be provided to the cement manufacturers. Scrap shall be used in steel melting shop (SMS) and SMS slag and kiln accretions shall be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.
- ix. In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant and coke sorting plant of coke oven plant. Bag filters shall be provided to hoods and dust collectors to coal and coke handling to control dust emissions. Water sprinkling system

shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.

- x. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 & 2009.
- xi. Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.
- xii. All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.
- xiii. 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 should be submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB.
- xiv. A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- xv. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, CECB and CPCB within 3 months of issue of environment clearance letter.
- xvi. As proposed, green belt shall be developed in 33 % of plant area as per the CPCB guidelines in consultation with the DFO.
- xvii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.
- xviii. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 5th March, 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.
- xix. At least 5 % of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.
- xx. The company shall provide housing for 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 authority shall adhere to the stipulations made by Chhattisgarh Environment Conservation Board (CECB) and State Government.

- ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.
- iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The CECB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iv. 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 shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vi. All the environment management measures given in the EIA/EMP shall be implemented and complied with.
- 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. Proper house keeping and adequate occupational health programmes shall be taken up as per the Factory Act.
- ix. The company shall undertake eco-development measures including community welfare measures in the project area.
- x. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- xi. The requisite funds shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- xii. The 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.
- xiii. 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.
- xiv. 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 MOEF, the respective Zonal Office of CPCB and the SPCB.

The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (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.

- xv. 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 respective Regional Office of MOEF, the respective Zonal Office of CPCB and the CWCB. The Regional Office of this Ministry at Bhopal/CPCB/CECB shall monitor the stipulated conditions.
- xvi. 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xvii. 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 CECB and may also be seen at the Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should 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 shall be forwarded to the Regional office at Bhopal.
10. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
11. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
12. 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. P.L. Ahujarai)
Scientist-F

Copy to:

1. The Secretary, Department of Environment, Govt. of Chhattisgarh, Chhattisgarh.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur, Chhattisgarh.
4. The Chief Conservator of Forests (Eastern), Regional Office (Western Zone), E-3/240, Arera Colony, Bhopal - 462 016, M.P.
5. Monitoring Cell, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard file.
7. Record file.

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(Dr. P.L. Ahujarai)
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