

**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
CHHATTISGARH
Government of India
Ministry of Environment and Forests**

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No. 644 /SEAC-CG/ EC/ RM/RYP/33/09

Raipur, Date 25/01/2011

To,

M/s Prime Ispat Limited,
Pyare Lal Agrawal Marg,
Ram Sagar Para,
Raipur (C.G.)

Sub: Expansion of rolling mill from existing capacity - 43, 200 metric tonne per annum to 1,08,000 metric tonne per annum, at Village-Bana, Tendua Road, Raipur (C.G.), by M/s Prime Ispat Limited - Environment Clearance Regarding.

Ref: - Your application no. Nil, dated 14/05/2008 and subsequent correspondence ending dated 22/12/2010.

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The undersigned is directed to refer to your communications dated 14/05/2008, 25/07/2008, 31/07/2008, 13/09/2009, 21/01/2010, 08/09/2010 and 22/12/2010 regarding the subject mentioned above.

It is noted that there are no protected areas as per Wildlife Protection Act, 1972, archaeological and defense installations, national park or sanctuary, critically polluted area identified by C.P.C.B. and interstate border within 10 km radius area. The site is located at village Bana, Tehsil & District-Raipur. Total area of the project is 18.28 acres. The land area statement is as follows:-

Total land area = 18.28 acres, build up area 5.0 acres, internal roads 2.0 acres, storage yard 2.5, green belt 6.28 acres and open area 2.5 acres.

This is an expansion project for expansion of the rolling mill from 43200 metric tonnes per annum to 108000 metric tonnes per annum. Expansion work has already been completed. Furnace oil 6.5 KL/day required after expansion, 120000 tonnes/year steel ingots /billets required as a raw material after expansion. Closed circuit cooling system has been adopted. Wet scrubber and air recuperator will be installed to control particulate matter emission from stack. Height of stack is 38 meters. D.G. set of 500 KVA capacity has been installed. Total water requirement after expansion is 11.50 kiloliters/day. Zero discharge condition is being maintained. The water used for cooling the mill strands is recycled. Mill scales about 3900 tonnes annually and end cuttings 8100 tonnes/annum generated as solid waste. End cuttings sold to nearby induction furnace unit and mill scale sold to sinter / ferro alloy plants. About 800 numbers of saplings have been planted. Green belt would be developed in an area of 6.28 acres. Packed bed scrubber has been installed in existing rolling mill. Asphalting of internal roads would be started shortly; however, water sprinklers have been installed to control fugitive dust emission. Rain water harvesting structures would

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be developed before coming monsoon. Maximum predicted incremental rise in concentration of PM₁₀, SO₂ and NO_x is 0.10 microgram/cum, 2.1 microgram/cum and 1.40 microgram/cum respectively. Total cost of the project is Rs. 21.38 crores.

The industrial cluster / area of Raipur have been identified as severely polluted area by Ministry of Environment and Forests, Government of India. New Delhi vide circular no. J-11013/5/2010-IA.II(I), dated 13/01/2010. As per circular no. J-11013/5/2010-IA.II(I), dated 13/01/2010 read with circular no. J-11013/18/2009-IA.II(I), dated 25/08/2009, SEAC, Chhattisgarh should ask Chhattisgarh Environment Conservation Board to submit their comments/views with respect to pollution load at the stage of appraisal of project. In this case, concurrence for issuing of TOR has been obtained from Chhattisgarh Environment Conservation Board on 06/04/2010, hence, comments/views of Chhattisgarh Environment Conservation Board again at this stage has not been obtained.

The proposal was discussed in 8th, 9th, 45th, 46th, 50th, 67th and 69th meeting of SEAC, Chhattisgarh held on 30/06/2008, 31/07/2008, 31/10/2009, 30/11/2009, 21/01/2010, 30/10/2010 and 22/12/2010 respectively. Project proponent made presentation in the 69th meeting of SEAC, Chhattisgarh held on 22/12/2010.

In the 69th meeting of SEAC, Chhattisgarh on 22/12/2010, Committee unanimously decided to recommend for grant of environmental clearance for expansion of the rolling mill from 43200 metric tonnes per annum to 108000 metric tonnes per annum subject to condition mentioned in the minutes of the meeting.

The proposal and recommendation of State Level Expert Appraisal Committee, Chhattisgarh was considered in the 18th meeting of SEIAA, Chhattisgarh held on 21/01/2011. The SEIAA, Chhattisgarh perused the information submitted by Project authority. After detailed deliberations, the SEIAA, Chhattisgarh decided to accept the recommendation of SEAC, Chhattisgarh to grant Environment Clearance. Accordingly, SEIAA, Chhattisgarh hereby accords Environmental Clearance for expansion of the rolling mill from 43200 metric tonnes per annum to 108000 metric tonnes per annum subject to strict compliance of the terms and conditions mentioned below:-

- (i) No additional land shall be acquired for expansion project.
- (ii) Project authority shall provide adequate facility for proper treatment of industrial effluent (if any) and domestic effluent. Domestic effluent shall be treated in well-designed septic tank and soak pits. In case of any failure of effluent treatment arrangement, it shall be immediately rectified or same alternate arrangement shall be provided. Treated effluent shall be utilized either in process or for plantation purposes within plant premises only. Project authority shall make arrangement of suitable drains/pipe networks to ensure adequate flow for full utilization of treated effluent inside the premises. No effluent shall be discharged out of plant premises under any circumstances. Hence zero discharge condition outside the premises shall be maintained all the time. Project authority shall ensure the treated effluent quality within standard prescribed by Ministry of Environment & Forests, Government of India. Industrial wastewater shall conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and December, 1993 or as amended form time to time.
- (iii) Project authority shall provide adequate measuring arrangements for the measurement of water utilized in different categories and effluent generated before commissioning of the plant with expanded capacity.
- (iv) Closed cooling system shall be adopted. The water used for cooling the mill strands shall be recycled.

- (v) Project authority shall not utilize coal in any form as a fuel for reheating furnace of rolling mill. Only furnace oil shall be used as fuel in reheating furnace of rolling mill.
- (vi) Project proponent ensure that particulate matter emission shall not exceed 50 mg/Nm³ under any circumstances by up-gradation / modification of existing air pollution control systems and by providing packed bed scrubber of adequate capacity.
- (vii) Project authority shall provide adequate air pollution control arrangements at all point and non point sources. Wet scrubber of adequate capacity and high efficiency shall be installed in rolling mill reheating furnace to ensure outlet dust (particulate matter) emission less than 50 mg/Nm³ all the time. Low NOx burners shall be installed in reheating furnace of rolling mill. Project authority shall install suitable & effective air pollution control equipments at all transfer points, junction points etc. also. All the conveying system, transfer point, junction point etc. shall be covered. Proper ventilation shall also be provided in rolling mill plant. The emission of pollutants from any point source shall not exceed the following limit: -

Particulate Matter	50 mg/Nm ³ (Fifty Milligram per Normal Cubic Meter)
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Project authority shall provide proper space provision for further retrofitting of air pollution control systems in case of further stringency of particulate matter emission limit.

- (viii) The height of all stacks attached with various particulate matter, air pollutants emission units shall be maximum of the following: -
- Based on $H=14(Q)^{0.5}$ (where Q is emission rate of SO₂ in Kg/Hr., and H is Stack height in meters) or;
 - Based on calculation to ensure the ground level concentration of pollutants in ambient air in the nearby residential, rural and other areas including the areas where maximum ground level concentration are predicted (due to establishment/ commissioning of the plant within prescribed limits or;
 - Based on guidelines of Ministry of Environment & Forests, Government of India/Central Pollution Control Board or;
- Minimum height of other stack shall not be less than 30 meters. Adequate arrangement of stack monitoring shall be provided for all the stacks.
- (ix) The gaseous emissions from various processes units shall conform to the load/mass based standards notified by this Ministry of Environment and forests, Government of India on 19th May, 1993 and standards prescribed from time to time. The Chhattisgarh Environment Conservation Board 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.
- (x) Secondary fugitive emissions shall be controlled and shall be kept within the prescribed limits and regularly monitored. Guidelines/Code of Practice issued by the CPCB in this regard shall be followed. Project authority shall maintain fugitive dust emissions to the minimum level in the areas of road transportation routs of raw material, product to ensure National Ambient Air Quality Standards prescribed including black topping/asphalting/concreting and maintenance with requisite water sprinkling arrangements.

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- (xi) All air pollution control systems shall be kept in good running conditions all the time and failure (if any), shall be immediately rectified without delay otherwise similar alternate arrangement shall be made. In the event of any failure of any pollution control system adopted by the Project authority, the respective production unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- (xii) Regular monitoring of ground level concentration of SO₂, NO_x, PM₁₀ and PM_{2.5} at at-least four stations shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, the plant shall cease all operations till necessary control measures are provided. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with Chhattisgarh Environment Conservation Board Raipur. The data so collected shall be properly analyzed and periodic reports shall be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.
- (xiii) Project authority shall install separate electric metering arrangements with time totalizer and interlocking arrangement for the running of pollution control devices. These arrangements shall be made in such a fashion that any non-functioning of pollution control device/devices shall immediately stop the electric supply to the fuel/raw materials supply system and shall remain tripped till the pollution control device/devices are made functional again/rectified to achieve the desired efficiency.
- (xiv) Project authority shall utilize the fly ash bricks/blocks etc. in all construction activities.
- (xv) Project authority shall take effective steps for safe disposal of solid wastes and sludge. End cutting from rolling mill shall be used as raw material in sister concern units. Mill scales and end cuttings shall be collected and sold to sinter / ferro alloy plant and to induction furnace units respectively. Oily sludge shall be sold to authorized recyclers / re-processors for proper disposal through incineration. Project authority shall obtain authorization from Board for management and handling of hazardous materials as per Hazardous Wastes (Management, Handling and Tran boundary Movement) Rules, 2008 (as amended up to date).
- (xvi) All internal roads shall be asphalted / concreted. Project authority shall adopt good house keeping practices.
- (xvii) Project authority shall take proper action to control the noise pollution. Project authority shall install appropriate noise barriers /control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation to control the noise. Earplugs/ear muffs etc. shall be provided to the employee working in the high noise areas. Leq of /noise levels emanating from machines shall be limited to 75 dBA. The noise level shall not exceed the limits 75 dB (A) during the daytime and 70 dB (A) during the night time within the factory premises. Project authority shall take adequate measures for control of noise level below 85 dB (A) in the work environment. Workers engaged in noisy areas shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including rotating them to non-noisy/ less noisy areas
- (xviii) Disaster Management plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the DMP.

- (xix) As far as possible maximum area of open spaces shall be utilized for plantation purposes. Project authority shall abide by the decisions taken by Ministry of Environment and Forests, Government of India / Central Government/ Central Pollution Control Board from time to time in this regard. Local broad leaf species should be planted. Adequate wide green belt shall be developed in the minimum 33% of total land area. Central Pollution Control Board guidelines shall be followed in planning and developing green belt and selection of species etc.
- (xx) Project authority shall adopt rainwater-harvesting technique in the project area for recharge of ground water. The rainwater-harvesting technique shall be incorporated right from the design stage of all structures. Project authority shall develop rainwater-harvesting structures to harvest the rainwater for utilization in the lean season as well as to recharge the ground water table. A detailed scheme for rainwater harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board. A copy of the same shall be submitted within three months to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.
- (xxi) Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the factories Act.
- (xxii) The project proponent shall also comply with all the environmental protection measures and safe guards recommended in the Environment Management Plan.
- (xxiii) Project authority shall establish an environmental management cell to carryout function relating to environmental management under the supervision of senior executive who shall directly report to the head of organization. A full-fledged laboratory with qualified technical/scientific staffs to monitor the influent, effluent, ground water, surface water, soil, stack emission and ambient air quality etc. shall be provided.
- (xxiv) Adequate funds shall be allocated for undertaking CSR activities (community welfare, environmental development activities apart from committed plantation) and in any case it shall not be less than Rs. 10.00 Lakhs for the period of three years or 5% of Net Profit (whichever more). Project authority must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc. Details of activities shall also be submitted to Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal. The funds earmarked for the environment protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal. Local laboures shall be given employment during construction and subsequently absorbed in the plant.
- (xxv) The issuance of this environmental clearance does not convey any property rights in either real or personal property, or any exclusive privileges, nor does

not authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local laws or regulations.

- (xxvi) SEIAA, Chhattisgarh reserves the right to amend/cancel any of the conditions and add new conditions and make further stringent the emission/effluent limit as and when deemed necessary in the interest of environmental protection, change in the project profile or non-satisfactory implementation of the stipulated conditions etc.
- (xxvii) The Project authority shall ensure the generation of employment in the local areas, recruitment shall be done by inviting applications first from the local residents of the Chhattisgarh State. In case of non-availability of suitable candidates for certain post in the first attempt, the Project authority may call the applications as second call not only from local residents of the Chhattisgarh State but also from other State.
- (xxviii) The Project authority shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the Chhattisgarh Environment Conservation Board and may also seen at Website of the Ministry of Environment and Forests at www.envfor.nic.in and website of SEIAA, Chhattisgarh at www.seiaacg.org.
- (xxix) Half yearly report on the status of implementation of the stipulated conditions and environment safeguards shall be submitted to the Chhattisgarh Environment Conservation Board, Raipur, Regional Office, Chhattisgarh Environment Conservation Board, Raipur, SEIAA, Chhattisgarh and Regional Office, Ministry of Environment & Forests, Government of India, Bhopal.
- (xxx) Regional Office of the Ministry of Environment and Forests at Bhopal shall monitor the implementation of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.
- (xxxi) The project authorities shall inform the Regional Office as well as the SEIAA, Chhattisgarh regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of commissioning of plant with expanded capacity.
- (xxxii) Full cooperation shall be extended to the Scientists/Officers from the SEIAA, Chhattisgarh, Ministry of Environment & Forests, Government of India/Regional Office, Ministry of Environment & Forests, Government of India, Bhopal/the CPCB/the Chhattisgarh Environment Conservation Board, who would be monitoring the compliance of environment status.
- (xxxiii) In case of any deviation or alteration in the proposed project from those submitted to this SEIAA, Chhattisgarh for clearance, a fresh reference should be made to the SEIAA, Chhattisgarh to assess the adequacy of the condition(s) imposed and to add additional environment protection measures required, if any. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests, Government of India/SEIAA, Chhattisgarh.
- (xxxiv) The project authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.

- (xxxv) This environmental clearance is being issued from prospective and not from retrospective effect, subject to condition that this environmental clearance is being issued without prejudice to the court case pending (if any) in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision of the hon'ble court is given in the future, that would be binding on the project proponent. Hence this clearance does not give immunity to the case filed (if any) against the project proponent.
- (xxxvi) The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) act, 1986 and rules there under, Hazardous Wastes (Management, Handling and Trans Boundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.
- (xxxvii) Chhattisgarh Environment Conservation Board shall display a copy of the clearance letter at the Regional Office, District Trade and Industries Centre and Collector's Office / Tehsildar's Office for 30 days.

Please acknowledge the receipt of this letter.

For & on behalf of

State Level Environment Impact
Assessment Authority, Chhattisgarh

[Signature]

Member Secretary
State EIA Authority, Chhattisgarh
Raipur (C.G.)

Endt. No. **645**/SEIAA-CG/ EC/ Rolling Mill /RYP /16/09 Raipur, Date **25/01/2011**

Copy to:-

1. The Principal Secretary, Department of Environment, Mantralaya Chhattisgarh, Raipur-492 001
2. The Chairman, Central Pollution Control Board, Parvash Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, Delhi – 100 032.
3. The Chairman, Chhattisgarh Environment Conservation Board, 1-Tilak Nagar, Shiv Mandir Chowk, Main Road Avanti Vihar, Raipur (C.G.)
4. District Collector, District – Raipur, Chhattisgarh,
5. Director, Ministry of Environment & Forests, Government of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi.
6. The Chief Conservator of Forests (C) Regional Office (WZ), Ministry of Environment & Forests, Kendriya Paryavaran Bhawan, Link Road No.- 3, E-5, Arera Colony, Bhopal.

[Signature]

Member Secretary
State EIA Authority, Chhattisgarh
Raipur (C.G.)