

F. No. J-11011/161/2009- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi - 110 003

E-mail : pb.rastogi@nic.in
Telefax : 011: 2436 7668
Dated 15th September, 2009

To, ✓
M/s Shri Shyam Ispat (India) Private Limited
Village Taraimal, P.O. Gerwani, Tehsil Taraimal
District Raigarh, Chhattisgarh

E-mail : ca.sudhir@yahoo.co.in ; Fax No. : 0776-2300706 ;

Subject: Expansion of Steel Plant alongwith Captive Power Plant (18 MW) at Village Taraimal, Post Gerwani, Tehsil Tamnar, District Raigarh, Chhattisgarh by M/s Shri Shyam Ispat (India) Private Limited - Environment clearance reg.

Ref. : Your letter no. nil dated nil received in the Ministry on 29th June, 2009.

Sir,

This has reference to your letter no. nil dated nil received in the Ministry on 29th June, 2009 alongwith Form I, Pre-feasibility Report, EIA/EMP and related project documents and subsequent communication vide your letter dated 16th August, 2009 for environmental clearance on the above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for the expansion of Steel Plant alongwith Captive Power Plant (18 MW) at Village Taraimal, Post Gerwani, Tehsil Tamnar, District Raigarh, Chhattisgarh by M/s Shri Shyam Ispat (India) Private Limited. Total project area is 70 acres and proposed expansion will be taken up within the existing plant premises. Taraimal Reserve Forest is located at 1 km. Forest Conservation officer, Tamnar, Raigarh vide letter dated 25th May, 2009 has confirmed that there will be no impact of proposed project on Taraimal RF. Total cost of the proposed expansion is Rs. 50.00 Crores. Following are the details of existing and proposed facilities:

S.N.	Details	Existing	Proposed	Total
1	Sponge Iron through DRI process	90,000 TPA (2x50 TPD & 2x100 TPD)	30,000 TPA (1x 100 TPD)	1,20,000 TPA
2	MS Billets	60,000 TPA (CFE received)	—	60,000 TPA
3	Rolled Products	60,000 TPA (CFE received)	—	60,000 TPA
4	Power generation WHRB FBC	6 MW 4 MW	— 14 MW	24 MW 6 MW 18 MW

3.0 Iron ore, coal and dolomite will be used as raw material in the sponge iron plant. Coal and dolomite will be used as fuel in FBC boiler. Sponge Iron production using coal will involve reducing iron ore with coal or lignite at a predetermined temperature (1000-1050°C) and cooled in rotary cooler. The cooled material will then be fed to product separation system where residual char will be magnetically removed from sponge iron by means of magnetic separators.

4.0 Electrostatic precipitator (ESP), dust settling chamber (DSC), after burning chamber (ABC), bag filters, stack of adequate height, dust suppression and extraction system will be provided to control air emissions. Total water requirement for proposed expansion will be 875 m³/day and permission for 0.16 million m³/annum from Gerwani Nallah is obtained vide letter dated 11th May, 2009. Closed circuit cooling system will be adopted. All the treated effluent will be used for dust suppression, ash conditioning and green belt development. Char and dolomite will be used in AFBC boiler to generate power. Ash generated from ESP of FBC boiler and bag filter dust will be used for cement or brick manufacture. Accretion slag will be used for road construction. Wet scrapper sludge will be given to brick manufacturers. Green belt will be developed in 24 acres (33%) out of total 70 acre area.

5.0 Public hearing/Public consultation is exempted as per Section 7 (ii) of EIA Notification, 2006.

6.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 as amended subsequently 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 and sufficient air pollution control devices shall be provided to keep the emission levels below 100 mg/Nm³. 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.
- ii) Hot gases from DRI kiln shall be passed through Dust Settling Chamber (DSC) to remove coarse solids and After Burning Chamber (ABC) to burn CO completely and used in waste heat recovery boiler (WHRB). The gas then shall be cleaned in ESP before leaving out into the atmosphere through ID fan and stack. Electrostatic precipitator (ESP) shall be provided to FBC boiler power plant to control the particulate emissions below 100 mg/Nm³ and the cleaned gases shall be let out to atmosphere through a stack of adequate height. Dust suppression system like fog type and mist water spray system shall be provided to beneficiation plant. The SPM levels from all the sources shall be controlled within 50 mg/Nm³ as proposed.
- iii) In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust suppression system with water sprinklers shall be provided at raw material handling, unloading and storage areas. Dust extraction system with bag filters shall be provided at kiln inlet and outlet, material transfer points, coal crushing, char & coal screening, cooler discharge and product separation areas. All the roads in the work area shall be asphalted. Monitoring of fugitive emissions in the work zone environment shall be carried out regularly as per

the CPCB guidelines and reports submitted to CECB / CPCB and Ministry's Regional Office at Bhopal.

- iv) 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. The emission standards issued by the Ministry in May, 2008 for the sponge plants shall be followed.
- v) Vehicular pollution due to transportation of raw material and finished product shall be controlled. Proper arrangements should also be made to control dust emissions during loading and unloading of the raw material and finished product. Water sprinkling system shall be installed to control fugitive emissions from vehicular movement. Vehicular emissions shall be regularly monitored.
- vi) Total water requirement from Gerwani Nallah should not exceed 875 m³/day as per the permission accorded vide letter dated 11th May, 2009. Closed circuit cooling system shall be adopted. Acidic and alkaline effluent from DM plant alongwith boiler blow down shall be neutralized in a neutralization tank, mixed with cooling tower blow down in a Central Monitoring Basin (CMB) and used for dust suppression, ash conditioning, green belt development and various other project related activities after passing through an oil separator to remove the oil content in the effluent. Domestic effluents shall be treated in septic tank followed by a soak pit and used as manure for green belt development.
- vii) 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- viii) The water consumption shall not exceed 16 m³/Ton of Steel as per prescribed standard.
- ix) Ground water monitoring around the solid waste disposal site / secured landfill (SLF) shall be carried out regularly and report submitted to the Ministry's Regional Office at Bhopal, CPCB and CECB.
- x) New DRI kiln shall be provided with waste heat recovery boiler (WHRB) to make use of flue gases generated during the process. All the char and dolochar from the existing and proposed DRI plant shall be utilized in the AFBC boiler of power plant and no char shall be disposed off anywhere else. Accretion slag from DRI shall be used for road construction. Wet scrapper sludge from DRI plant shall be given to brick manufacturers for further utilization. All the other solid / hazardous waste generated shall be properly utilized or disposed off in environment friendly manner. Used oil, oily waste, spent lubricants and lead acid batteries shall be provided to authorized recyclers/reprocessors.
- xi) A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- xii) 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 at Bhopal, CECB and CPCB. ✓

- xiii) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003. 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 Bhopal within 3 months
- xiv) As proposed, green belt shall be developed in 24 acres (33%) out of total 70 acre area within and around the plant premises as per the CPCB guidelines in consultation with DFO.
- xv) Permission and recommendations of the State Forest Department regarding impact of the proposed plant on the surrounding Taraimal Reserve Forest shall be obtained and recommendations, if any, shall be implemented.
- xvi) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Sector shall be implemented.
- xvii) 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 authorities must strictly adhere to the stipulations made by the Chhattisgarh Environment Conservation Board (CECB) and the State Government.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- 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 State 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. On-line continuous monitoring system shall be installed in stacks to monitor SPM and interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iv. At least four ambient air quality-monitoring stations should be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the CECB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhopal and the CECB / CPCB once in six months.
- v. Industrial wastewater shall 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. The treated wastewater shall be utilized for plantation purpose.
- vi. 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).

- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- viii. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- ix. 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.
- x. As proposed, Rs. 4.00 Crores and Rs. 0.20 Crores 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 and Forests 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 Bhopal. The funds so provided should not be diverted for any other purpose.
- xi. 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 MOEF, the respective Zonal Office of CPCB and the CECB. 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.
- 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 MOEF at Bhubaneswar, the respective Zonal Office of CPCB and the CECB. The Regional Office of this Ministry at Bhopal / CPCB / CECB shall monitor the stipulated conditions.
- 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.

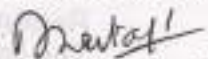
- xv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the CECB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall 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.
- 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.

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

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

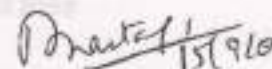
9.0 Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

10.0 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 and Handling) Rules, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules


(Dr. P. B. Rastogi)
Director

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. Adviser (IA-II), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard file.
8. Record file.


(Dr. P. B. Rastogi)
Director

F. No. J-11011/161/2009-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj,
New Delhi - 110003
E-mail: sharath.kr@gov.in
Tel: 011-24695319

Dated: 23rd June, 2017

To

M/s Shri Shyam Ispat (India) Pvt. Ltd
Village Taraimal, Post Gerwani,
Tehsil Tamnar, District Raigarh,
Chhattisgarh

Subject: - Expansion of Steel Plant along with Captive Power Plant (18 MW) located at Village Taraimal, Post Gerwani, Tehsil Tamnar, District Raigarh, Chhattisgarh by M/s Shri Shyam Ispat (India) Pvt. Ltd.- Extension of Validity of Environmental Clearance regarding.

Sir,

This has reference to your online application No IA/CH/IND/2946/2009 dated 9th August, 2016 for extension of validity of the environmental clearance for the project mentioned above.

2.0 The proposal is for seeking extension of validity of environmental clearance, accorded to the project by the Ministry vide letter No. J-11011/161/2009 IA-II (I) dated 15.09.2009 up to 14th September 2019. M/s Shri Shyam Ispat (India) Private Limited presented the plant configuration for which Environmental Clearance was obtained and the implementation status of the project, as under:

S.No.	Units	Existing / Consented Capacities Prior To Issue Of EC	Proposed Expansion for which EC accorded 15/09/2009	Total Capacity After Expansion	Status of Implementation of Expansion
1	Sponge Iron through DRI process	90,000 TPA (2 x 50 TPD & 2 x 100 TPD) Implemented and in operation and having valid CTO from CECB	30,000 TPA (1 x 100 TPD)	1,20,000 TPA	Implementation of 1 x 100 TPD work is under progress & 70% of the work has been completed and production is expected by January, 2017
2	M.S. Billets	60,000 TPA	—	60,000 TPA	Implemented and in operation
3	Rolled Products	60,000 TPA	—	60,000 TPA	Yet to be implemented and will be completed by December 2017

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Extension of Validity of Environmental Clearance for Expansion of Steel Plant along with Captive Power Plant (18 MW) located at Village Taraimal, Post Gerwani, Tehsil Tamnar, District Raigarh, Chhattisgarh by M/s Shri Shyam Ispat (India) Pvt. Ltd.

S.No.	Units	Existing / Consented Capacities Prior To Issue Of EC	Proposed Expansion for which EC accorded 15/09/2009	Total Capacity After Expansion	Status of Implementation of Expansion
4	Power Generation WHRB FBC	 6MW 4MW	 -- 14 MW	 24MW 6MW 18MW	<p>WHRB Power Plant</p> <ul style="list-style-type: none"> We have installed 4 MW WHRB connected to 2 x 100 TPD Kilns and in operation. Installation of remaining 2 MW WHRB based power plant is under progress & 70% of the work has been completed and production is expected by January, 2017. <p>FBC Power Plant</p> <ul style="list-style-type: none"> Out of 18 MW of FBC, 12 MW FBC based power plant has been implemented and is having valid CTO from CECB. It is requested to drop remaining 6 MW FBC based power plant.

3.0 It has been explained by the PP that after obtaining the Environmental Clearance, part of the facilities have been implemented. However, the implementation of the balance portion of the above referred EC could not be completed due to severe recession in steel sector (sluggish market condition) and fall in cash flow of the company during the past few years. PP further mentioned that 70% of the work has been completed for 1 x 100 TPD DRI & 2 MW WHRB Power plant and production is expected by January, 2017.

4.0 The proposal was considered during the 10th meeting held on 29th – 31st August, 2016 and the Committee recommended the proposal for extension of validity of environmental clearance. Based on the presentation made and discussions held the Committee recommended extension of validity of EC for further period of 3 years upto 14.09.2019.

5.0 The Ministry accepts the recommendation of the EAC (Industry) and hereby decided to extend the validity of the environmental clearance No. J-11011/161/2009-IA II (I) dated 15.09.2009 for further period upto 14.09.2019 under the provisions of EIA Notification, 2006, as amended, subject to obtaining the extension of validity of the Consent for Establishment from Chattisgarh Environment Conservation Board.

6.0 The company shall obtain fresh environmental clearance in case of any change in the scope of the project.

This issues with the approval of the Competent Authority.


(Sharath Kumar Pallerla)
Scientist 'F'

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Extension of Validity of Environmental Clearance for Expansion of Steel Plant along with Captive Power Plant (18 MW) located at Village Taraimal, Post Gerwari, Tehsil Tamnar, District Raigarh, Chhattisgarh by M/s Shri Shyam Ispat (India) Pvt. Ltd.

Copy to:-

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.


(Sharath Kumar Pallerla)
Scientist 'F'