

F. No. J-11011/158/2008- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
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Dated 20th January, 2010

To, ✓
Authorized Signatory
M/s Shri Uttam Steel & Power Ltd.
Uttam House, 69, P.D. Mello Road
Mumbai – 400 009, Maharashtra.

E-mail : rkmittal@uttamgalva.com ; Fax No. : 022-23482827

Subject : Integrated Steel Plant (1.5 MTPA) alongwith Captive Power Plant (100 MW; 2 x 50 MW) at Satarda, District Sindhudurg, Maharashtra by M/s Shri Uttam Steel & Power Ltd. (Formerly, M/s Usha Ispat Ltd.) – Environment clearance reg.

Ref. : Your letter no. nil dated 7th November, 2009.

Sir,

This has reference to your letter no. nil dated 7th November, 2009 alongwith application in Form I, draft Terms of Reference, Prefeasibility Report and EIA/EMP Report and subsequent clarifications furnished by you vide letter dated 13th November, 2009, 1st December, 2009, 2nd December, 2009 and 16th December, 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 Integrated Steel Plant (1.5 MTPA) alongwith Captive Power Plant (100 MW; 2 x 50 MW) at Satarda, District Sindhudurg, Maharashtra by M/s Shri Uttam Steel & Power Ltd. PAs have submitted a copy of the Gazette Notification dated 6th May, 2000 issued by the Government of Maharashtra indicating allotment of 351 ha (867 acres) land to M/s Usha Ispat Ltd. No rehabilitation and resettlement (R & R) is involved. No national park/wildlife sanctuary / biosphere reserves are located within 10 km radius. Sateli acquired forest (2.5 km N), Padlos acquired forest (5 km N), Navheli acquired forest (7.5 km NW), Ronapal acquired forest (7.5 km N) are located within 10 km radius of the proposed project. Environmental clearance for the existing Integrated Steel Plant (0.6 MTPA) has been accorded vide Ministry's letter no. J-11011/51/1996-IA. II(I) dated 18th June, 1997 to M/s Usha Ispat Ltd. but assets of the company have been acquired by M/s Shri Uttam Steel & Power Ltd. and have now proposed for Integrated Steel Plant (1.5 MTPA) alongwith Captive Power Plant (100 MW) at the same location. Total cost of the project is Rs. 7,196.28 Crores. Following are the details of the facilities to be installed and products to be manufactured :

S. N.	Technological Facilities	Plant configuration	Capacity (MTPA)
1.	Coke oven & by-product plant, 4.5 m tall	4 batteries, each comprising of 2 blocks of 35 ovens	1.00
2.	Sinter Plant	1 x 240 m ²	2.46
3.	Blast Furnace	1 x 2400 m ³	1.70
4.	Basic Oxygen Furnace	1 x 175 t	1.55

5.	Ladle Furnace	1 x 175 t, 35 MVA	1.55
6.	Vacuum degasser	1 x 175 t,	1.55
7.	Slab caster	1 x 1 strand	1.54
8.	Hot strip mill with roughing and finishing train	1 x 1.5 MTPA	1.55
9.	Oxygen Plant	2 x 500 TPD	1000 TPD
10.	Lime and Dolo plant	2 x 250 TPD (lime plant), 1x200 TPD (Dolo plant)	500 TPD (Lime plant) & 200 TPD (Dolo plant)
11.	Captive power plant from multi fuel fired	2 x 50 MW	100 MW
12.	Pig casting machine	5x1500 TPD	7,500 TPD

Following will be the products from proposed project:

S.N	Products	Capacity (MTPA)
1	Hot rolled coils	1.50
2	Cold pigs	0.135

3.6 Coke oven & by product plant, ~~sinter plant~~, blast furnace, basic oxygen furnace, ladle furnace, vacuum degasser, Slab caster, hot strip mill with roughing and finishing train, oxygen plant, lime and dolo plant, captive power plant from multi-fuel fired will be installed. 43,500 Nm³/hr coke oven gas will be produced. Hot metal produced in blast furnace will be transferred to BOF for steel making as well as cast at pig casting machine to produce cold pigs. The slab caster will be linked to hot strip mill to process slabs (1,522,800 TPA) into HR coils (7,500,000 TPA).

4.0 Electrostatic precipitator (ESP), gas cleaning plant with wet scrubbers, bag filters, dust & fume extraction system, spark arrestors, dry fog type dust suppression system will be provided to control emissions within stipulated norms. Total ground water requirement from River Terekhol will be 2,400 m³/hr but needs to be reduced due to change from wet to air quenching. All the treated effluent will be used for ash conditioning, dust suppression and green belt development. No effluent will be discharged outside the premises and 'Zero' discharge will be adopted. BF slag will be granulated and sold to cement manufacturers. BF sludge, BOF scale & sludge, mill scales, mill scrap, lime dust, dolo dust, pig casing sludge will be used in sinter plant. Skull/scrap will be used in BOF plant. Fly ash will be sold to cement manufacturers. BOF slag will be used in construction and as rail ballast. Tar sludge from coke oven decanter, BOD plant sludge will be sold to MPCB approved TSDF plants. Spent / wash / lubricant and batteries will be sold to registered recyclers. Green belt will be developed in 33 % area.

5.0 Public hearing is exempted as per Section (iii), Stage (3), Para (i)(b) of EIA Notification, 2006. 'Consent to Establish' has been accorded by the Maharashtra Pollution Control Board vide letter no. MPCB/PCI-II/and/TBIB/31812 dated 10th June, 2009.

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 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i) Ministry has 'no objection' for the change in the name of Company from M/s Usha Ispat Ltd. to M/s Shree Uttam Steel and Power Ltd. (SUSPL) due to purchase of all the assets of M/s Usha Ispat Ltd. by M/s Shree Uttam Steel and Power Ltd. (SUSPL) for the Integrated Steel Plant (0.6 MTPA) at Satarda, Sindhudurg, Maharashtra vide ✓

Ministry's letter no. J-11011/51/96 dated 18th June, 1997. Since the project is not commissioned till date, environment clearance accorded vide letter no. J-11011/51/96 dated 18th June, 1997 shall be treated as null and void. Maharashtra Pollution Control Board has issued amended 'Consent to Establish' in the name of M/s Shree Uttam Steel and Power Ltd. (SUSPL) vide their letter No. MPCB/PCI-II and /TB/B-3812 dated 10th June, 2009.

- ii) Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. 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 and installing energy efficient technology. No charcoal shall be used as raw material. At no time the emission level shall go beyond the prescribed standards. Inter-locking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.
- iii) All the standards prescribed for the coke oven plants shall be followed as per the latest guidelines. Proper and full utilization of coke oven gases alongwith other gases in coke oven batteries, converter shop, blast furnace, sinter plant, power plant using heat recovery steam generators shall be ensured and no flue gases shall be discharged into the air. Ammonia & crude tar from the coke oven plant shall be recovered.
- iv) As proposed, BF gas and coke oven gas shall be used as fuel in stove heating, sinter plant, continuous machine (CCM) and reheating furnaces. BOF gas shall be used as fuel in lime plant. Surplus BF gas and BOF gas shall be used as fuel in power plant.
- v) Electrostatic precipitator (ESP) shall be provided to power plant to control emissions within 50 mg/Nm³. Dust extraction system and ESP shall be provided in the sinter plant. Dust extraction system with bag filters shall be provided to control emissions from coke oven battery. Gas cleaning plant with wet scrubber shall be provided to blast furnace. Dust extraction system with bag filters shall be provided in stock house and cast house of blast furnace. Fume extraction system, spark arrestors followed by bag filters shall be provided to basic oxygen furnace (BOF) and ladle refining furnace (LRF) to extract fumes from the process. Bag filters shall be provided to lime calcination plant. Particulate emission levels shall be ensured within 50 mg/Nm³. The Maharashtra Pollution Control Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. Monitoring data shall be submitted to the Ministry's Regional Office at Bhopal, MPCB and CPCB six monthly.
- vi) Adequate pollution control measures shall be provided to control the gaseous emissions when furnace oil is used in the reheating furnaces before discharging to open atmosphere through recuperator and chimney of adequate height.
- vii) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- viii) Data on ambient air quality, stack emissions and fugitive emissions shall be uploaded on the Company's website and also regularly submitted on-line to the Ministry's Regional Office at Bhopal, Maharashtra Pollution Control Board (MPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months.

Data on SPM, SO₂ and NO_x shall also be displayed prominently outside the premises at the appropriate place for the information of general public.

- ix) In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fume and dust extraction system with bag filters shall be provided at the transfer and discharge points to control fugitive emissions. Bag filters shall be provided to iron ore crusher/screen house, coal crusher/screen house, stock house, coal injection building, cooler discharge building, intermediate bin, product separation/storage house and at all the material transfer points to control the dust emissions. Dry fog type dust suppression system shall be provided at raw material handling units. Asphaltting or concreting of the roads shall be done to control fugitive emissions. De-dusting system and dust suppression system like water spraying shall be provided to control fugitive dust emissions to meet the MPCB norms.
- x) 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. New standards for the sponge iron plant issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 shall be followed.
- xi) 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. Water spraying shall also be done to prevent the dust emanation due to vehicular movement.
- xii) Total water requirement from River Terekhol shall not exceed 2,400 m³/hr which has to be revised due to change from wet to air quenching. No wet quenching shall be followed. Acidic and alkaline effluent from cation and anion units of DM plant shall be neutralized in neutralization tank. Boiler blow down shall be neutralized in the neutralization tank before mixing with other effluent streams. Phenolic wastewater from coke oven plant shall be treated in BOD plant. Clarifier and thickener shall be provided to raw water treatment plant and BF & BOF gas cleaning plant. Cooling tower and boiler blow down shall be reused in the plant for dust suppression and slag granulation etc. All the other treated effluent shall be used in the process itself and also for ash conditioning, dust suppression and green belt development. Catch pits shall be provided to raw material handling yard. Oil & grease shall be removed by oil traps and skimming devices from service water, bloom/billet slab caster and rolling mill. Domestic wastewater shall be treated in septic tank followed by soak pit and used for green belt development.
- xiii) 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.
- xiv) Air quenching and closed circuit cooling system shall be adopted to reduce the water consumption and accordingly water requirement shall be modified.
- xv) Prior 'permission' for the drawl of revised water quantity (due to change from wet to air quenching) from River Terekhol shall be obtained from the concerned department.
- xvi) All the wastewater from the coke oven plant shall be treated in BOD plant. Continuous monitoring of Total Organic Compounds (TOC) shall be done at the outlet of ETP (BOD plant). ✓

- xvii) 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- xviii) The water consumption shall not exceed 16 m³/Ton of Steel as per prescribed standard.
- xix) 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. 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, Maharashtra (MPCB) and CPCB.
- xx) BF sludge, BOF scale & sludge, mill scales, mill scrap, lime dust, dolo dust, pig casing sludge etc. shall be recycled to sinter plant to produce sinter. Tar sludge from coke oven decanter, BOD plant sludge shall be sold to MPCB approved TSDF plants and a copy of the authorization shall be submitted to the Ministry's Regional Office at Bhopal. Possibilities shall be explored for the utilization of slag in cement manufacturing units.
- xxi) All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further utilization. SMS slag shall also be properly utilized. Skull/scrap shall be used in BOF plant. BOF slag shall be used in construction and as rail ballast. All the other solid waste including broken refractory mass shall be properly disposed off in environment-friendly manner.
- xxii) All the slag shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) test. Toxic slag shall be disposed in secured landfill as per CPCB guidelines. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines. No hazardous materials shall be spilled out and good house keeping practices shall be adopted. Waste oil, oily sludge, lubricant and batteries shall be disposed off to registered recyclers / reprocessors as per CPCB guidelines.
- xxiii) A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.
- xxiv) 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, MPCB and CPCB.
- xxv) 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.
- xxvi) A Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office at Bhopal, MPCB and CPCB within 3 months of issue of environment clearance letter. ✓

- xxvii) As proposed, green belt shall be developed in 289 acres (33 %) out of total 867 acres within and around the plant premises as per the CPCB guidelines in consultation with DFO.
- xxviii) Prior permission from the State Forest Department shall be taken regarding likely impact of the expansion of the proposed steel plant on the reserve forests. Measures shall be taken to prevent impact of particulate emissions / fugitive emissions, if any from the proposed plant on the surrounding reserve forests viz. Sateli acquired forest (2.5 km N), Padlos acquired forest (5 km N), Navheli acquired forest (7.5 km NW), Ronapal acquired forest (7.5 km N) located within 10 km radius of the proposed project. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.
- xxix) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented.
- xxx) At least 2 % of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details alongwith time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.
- xxxi) 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 Maharashtra Pollution Control Board (MPCB) 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. At least four ambient air quality monitoring stations shall 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 MPCB. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhopal and the MPCB / 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 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.
- v. 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.
- 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). N

- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- 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. As proposed, Rs. 430.00 Crores and Rs. 107.35 Crores earmarked towards capital cost and recurring cost/annum for the environment pollution control measures shall be judiciously utilized 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.
- 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.
- xi. 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 MPCB. The criteria pollutants 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.
- xii. 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, the respective Zonal Office of CPCB and the MPCB. The Regional Office of this Ministry / CPCB / MPCB shall monitor the stipulated conditions.
- xiii. 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.
- xiv. 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 MPCB 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. ✓

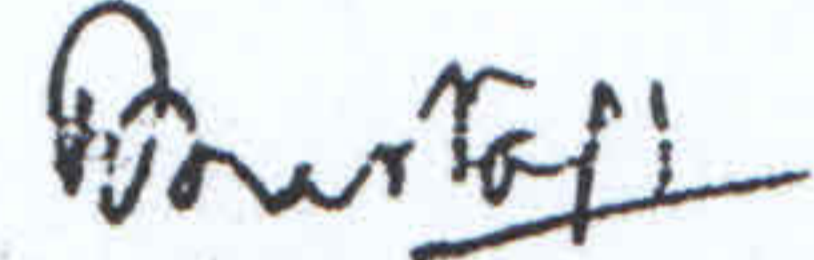
- xv. Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.

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.

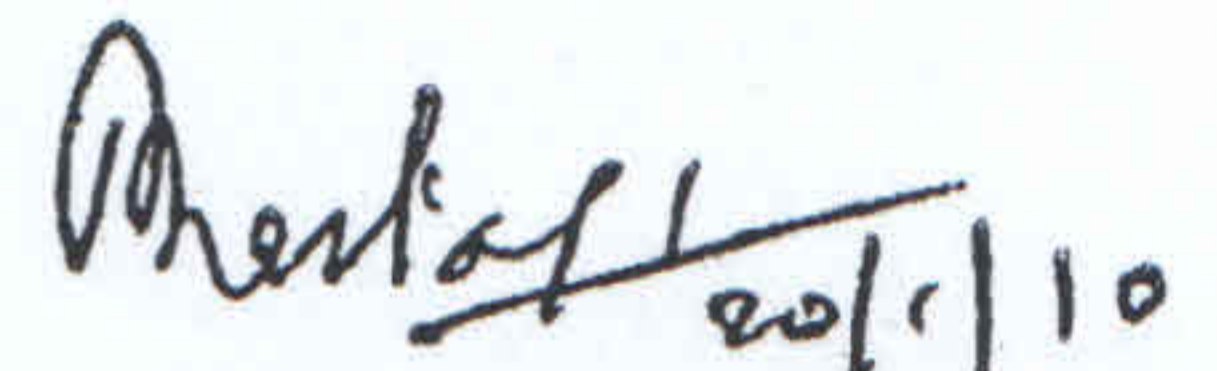
10.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public (insurance) Liability Act, 1991 along with their amendments and rules.



(Dr. P. B. Rastogi)
Director

Copy to :

1. The Secretary, Department of Environment and Forests, Govt. of Maharashtra, Mumbai - 400 001, Maharashtra.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No. 3, E - 5, Arera Colony, Bhopal - 462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Shri Chatrapati Shivaji Maharaj Municipal Market Building, 4th Floor, Mata Ramabai Ambedaker Road, Mumbai - 400 004, Maharashtra.
5. Adviser II (i), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.



(Dr. P. B. Rastogi)
Director