

Half-Yearly Compliance Report (April'13 to Sept'13) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.8.2012 from MoEF for 55000 TPA High Carbon Ferro Chrome Plant, 40000TPA Rebar Mill &Desalination Plant at Tehsil Chatrapur, Ganjam Odisha by Tata Steel .

Sl. No.	Specific Conditions	Status as on 30.09.2013
1	The proponent shall obtain necessary CRZ clearance under the provision of CRZ Notification, 2010	<ul style="list-style-type: none"> • Our project has been granted CRZ Clearance under CRZ Notification, 2010 on 18.03.2013 vide letter no. F No. 11-63/2012-IA.III from MoEF (IA Division). • Moreover, Half-Yearly Compliance report of CRZ clearance is also being submitted.
2	No Charcoal shall be used as fuel. Pet Coal should be used as fuel instead of charcoal from unknown sources.	Charcoal will not be used during operations of the plant.
3	Continuous monitoring facilities for all the stacks and sufficient air pollution control equipments viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emission below 50 mg/Nm ³	<ul style="list-style-type: none"> • Continuous monitoring facilities for all process stacks will be provided as proposed. • Air pollution control equipment such as fume extraction system with bag filters and ID fan will be installed to control emission. • Stack of 35 m height is proposed to submerged arc furnace.
4	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	The NAAQ Standards issued by MoEF vide G.S.R. No. 826(E) dated 16.11.2009 will be followed for all operations under construction and operational phase.
5	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.	Fugitive emission controls are proposed during construction as well as in operation. <ul style="list-style-type: none"> • Water spraying on road and work zone. • DE system for RMHS and dry fogging at conveyors. • Monitoring of fugitive emissions is proposed and shall commence soon.
6	The total water requirement shall not exceed 5.5 MLD. "Zero" effluent discharge shall be strictly followed and no wastewater should be discharged outside the premises.	<ul style="list-style-type: none"> • Makeup water requirement will be 5.5MLD. · • Effluent Treatment Plant & STP have been proposed. • Treated water is proposed to be recycled/ reused for plant operations, afforestation etc.

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7	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.	<ul style="list-style-type: none"> • A reservoir of 4,55,000 m³ capacity is proposed for rain water storage and excavation work is under progress. • Proper drainage system will be adopted for harvesting of received rain water. Desalinated water will be used as make-up water in addition to harvested rain water. • Moreover, M/s KRG Foundation, Chennai has been engaged to do technical feasibility study for implementation of rain water harvesting.
8	Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated waste water shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry' Regional Office at Bhubaneswar, SPCB and CPCB.	<ul style="list-style-type: none"> • Influent and effluent surface water has been proposed to be periodically monitored as per guidelines. However, Vimta Lab Limited, Hyderabad has been engaged for subsurface and ground water monitoring. Report is enclosed as Annexure I. • Wastewater treatment facility (ETP) has been proposed to meet the norms of OSPCB/CPCB. • Leachate study for effluent generated at the time of operation has been proposed to be carried out. Report of periodic leachate study test will be submitted to MoEF's Regional office at Bhubaneswar, OSPCB and CPCB.
9	All the Ferro chrome 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. Otherwise, hazardous substances shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.	<ul style="list-style-type: none"> • TCLP test will be conducted before using Fe-Cr slag for land filling or building materials etc.
10	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.	<ul style="list-style-type: none"> • Risk and Disaster Management Plan along with the mitigation measures submitted to the MoEF vide letter no. OP-Env/C-04/52/2012 dated 12.11.2012. • Copy of the same also submitted to Eastern Regional Office of MoEF and OSPCB.

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11	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 20th September, 2011 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	<ul style="list-style-type: none"> • Commitments made during PH are planned and actions have been initiated to comply the same. Till FY'13 we have spent Rs. 16.94 Crs on commitments made during PH & periphery development work. (Annexure-II). • Moreover, we have spent Rs 25 crs for JN Tata Technical Training Institute and Rs 7 Crs for its hostel which is run by NTTF. • Further actions in this regard are going on.
12	As proposed green belt should be developed in at least 33% of the project area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	<ul style="list-style-type: none"> • Plan for green belt development on 33% of project area over next 5 – 6 years is prepared. • In the first phase, around 15ha of area having approximately 30,000 saplings are planned to be completed by the coming monsoon in the project area. • Moreover, till date 10,000 nos are being planted at Taratarini temple site, 1,000 nos are planted outside plant premises on the occasion of World Environment Day and around 1,00,000nos are planted in our Tata Rehab Colony.
13	At least 5% of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.	<ul style="list-style-type: none"> • Separate budget is earmarked for the CSR activities which also take into account the PH commitments and feedback from the surrounding communities. • Actions are being done on health, HIV-Aids, Educations, Drinking Water, Infrastructure Development and Empowerment by our TSRDS wing (Tata Steel Rural Development Society). • We have spent about Rs. 16.94 Crs till FY'13 on the above activities. (Annexure-II)
14	The Company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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.	<ul style="list-style-type: none"> • Temporary housing and other amenities for the construction workers will be provided. • Amenities will include shelter, canteen, toilets, health care, safe drinking water etc.

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Sl. No.	Specific Conditions	Status as on 30.09.2013
15	<p>The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process / procedure to being 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 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.</p>	<ul style="list-style-type: none"> • Details on Tata Steel's Policy on corporate Environment Responsibility and other requirements have been submitted to the MoEF vide letter no. OP-Env/C-04/52/2012 dated 12.11.2012. · Copy of the same is also submitted to MoEF Eastern Regional Office and OSPCB.

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Sl. No.	General Conditions	Status as on 30.09.2013
1	The project authorities must strictly adhere to the stipulations made by the Orissa State Pollution Control Board and the State Government.	<ul style="list-style-type: none"> • We are taking proper care to all the conditions and obligations of Consent to Establish and other conditions imposed by the government authorities.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	<ul style="list-style-type: none"> • Prior approval will be taken from MoEF for any further expansion/ modifications.
3	The gaseous emissions from various process units shall conform to the load/mass based standards notified by the 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.	<ul style="list-style-type: none"> • Adequate control measures are proposed in the FeCr Plant and Rebar Mill. • Gaseous emission will be well within standards.
4	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM10, SO2 and NOX 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 Bhubaneswar and the SPCB/CPCB once in six months.	<ul style="list-style-type: none"> • 6AAQ monitoring stations have been installed in the downward wind direction keeping in view maximum ground level concentration of PM10, SO2 and NOX in consultation with the SPCB. • Monitoring of AAQ parameters has been started from 10th Sept'13 by engaging Vimta Lab Limited, Hyderabad and the report is enclosed as Annexure I. • Reports are submitted to MoEF regional office at Bhubaneswar, OSPCB andCPCB, Kolkata along with this half yearly EC compliance.
5	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.	<ul style="list-style-type: none"> • Waste water from plant will be treated in ETP and will be reused/recycled including afforestation and gardening etc.

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6	The overall noise levels in and around the plant area shall be kept well within the standards (85dBA) 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).	<ul style="list-style-type: none"> • Noise levels will be kept within limit with the help of noise control measures as proposed and will be monitored periodically. Moreover, noise monitoring report is also enclosed as Annexure I.
7	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<ul style="list-style-type: none"> • Initial and Periodic medical health check-ups are planned. • OHS records would be maintained as per the Factories Act for surveillance and review.
8	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.	<ul style="list-style-type: none"> • A reservoir of 4,55,000 m³ capacity is proposed for rain water harvesting and excavation work is under progress. • Suitable drainage pattern is proposed to collect the rain water. • Moreover, M/s KRG Foundation, Chennai has been engaged to do technical feasibility study for implementation of rain water harvesting.
9	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 programs, educational programs, drinking water supply and health care etc.	<ul style="list-style-type: none"> • All the proposed protection measures indicated in the EIA report will be implemented. • CSR activities for drinking water, health, education, infrastructure, empowerment, HIV-Aids etc. have been initiated. • We have spent Rs. 16.94 Crson socio-economic development activities in the surrounding villages till 31st March 2013. (Annexure-II). • Moreover, we have spent Rs 25 crs for JN Tata Technical Training Institute and Rs 7 Crs for its hostel which is run by NTTF.

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10	<p>Requisite amount 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 Bhubaneswar. The funds so provided shall not be diverted for any other purpose.</p>	<ul style="list-style-type: none"> • Budget earmarked towards capital cost and recurring cost/annum for environmental pollution control measures shall not be diverted. • This is the third Half Yearly Report being submitted after grant of EC on 14.08.2012.
11	<p>A copy of clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/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.</p>	<ul style="list-style-type: none"> • EC copy has been submitted to the concerned Govt. /Private bodies in Aug'2012. • EC letter has been uploaded on the Tata Steel website, www.tatasteel.com .
12	<p>The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent the Regional Office of the MoEF at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOX (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.</p>	<ul style="list-style-type: none"> • EC compliance reports are being uploaded to the company's website www.tatasteel.com and the same is also updated periodically. • Environment display board has been put up at the entrance of the plant site. • Monitoring of ambient air quality, ambient noise and water quality parameters have been started from 10th Sept'13 by engaging Vimta Lab Limited, Hyderabad and the reports are enclosed as Annexure I.

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13	<p>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 SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB/ SPCB shall monitor the stipulated conditions.</p>	<ul style="list-style-type: none"> • Third Half Yearly compliance report is being submitted herewith to the Regional Office of MoEF, CPCB Kolkata and OSPCB in hard copy. Moreover, soft copies are also being sent through e-mail.
14	<p>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 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 MoEF at Bhubaneswar by e-mail.</p>	<ul style="list-style-type: none"> • The environmental statement for financial year 2012-13 was submitted on 28.09.2013 and the same has been hosted on company's website www.tatasteel.com .
15	<p>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 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 at Bhubaneswar.</p>	<ul style="list-style-type: none"> • Grant of EC Letter has been advertised on 19.08.2012 in two local newspapers namely <ul style="list-style-type: none"> ➤ SAMBAD in Oria language (page no. 9) and ➤ The New Indian Express in English language (page no. 5) • Advertisement details have been submitted to the MOEF Eastern Regional Office at Bhubaneswar on 19.08.12 and were also attached with the 1st Half Yearly compliance Report.

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16	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.	<ul style="list-style-type: none"> • Project funding for this project is planned to be funded through internal accruals. • The project received final approval from the Board of Tata Steel in Aug' 2010. • Ground leveling activities was started on 04.05.2013 and the same was being intimated to the board vide letter no PG-Env/C-01/03/2013 & PG-Env/C-01/04/2013, dated 10th May 2013. However, work was stopped on 2nd August 2013 due to ransack by local villagers at our site office & also due to cyclone effect. The work is again expected to begin by December 1st week.

Annexure II

**CSR Expenditure on Periphery villages as per Public Hearing Commitments
by TATA STEEL, Gopalpur Project**

Sl. No.	Expense Head	FY 2011-12	FY 2012-13	Total during FY 12&13
1	Administration	1971148.00	3354002.00	5325150.00
2	Civic Amenities	27625027.00	12340526.00	39965553.00
3	Cultural Event	2343057.00	15750.00	2358807.00
4	Education	2542449.00	952854.00	3495303.00
5	Empowerment	7440681.00	4574750.00	12015431.00
6	Health	6111199.00	13372067.00	19483266.00
7	Infrastructure	17424338.00	41997643.00	59421981.00
8	Water Supply	1477329.00	4502260.00	5979589.00
9	House repair	4238783.00	10806369.00	15045152.00
10	Plantation	0.00	2487575.00	2487575.00
11	Miscellaneous	533158.00	3347050.00	3880208.00
	TOTAL	71707169.00	97750846.00	169458015.00