

**Half-Yearly Compliance Report (Oct'14 to Mar'15) of Environment Clearance Vide letter No. J-11011/55/2011-IA-II(I) dated 14.08.2012 and amendment of EC dated 08.08.2014 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	Compliance/Status
1	The proponent shall obtain necessary CRZ clearance under the provision of CRZ Notification, 2010	<ul style="list-style-type: none"> <li>• 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).</li> <li>• Moreover, Six monthly Half-Yearly Compliance report of CRZ clearance is also submitted periodically.</li> </ul>
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 <sup>3</sup>	<ul style="list-style-type: none"> <li>• Continuous monitoring facilities for all process stacks will be provided as proposed.</li> <li>• Necessary Air pollution control equipment such as fume extraction system with bag filters and ID fan will be installed to control emission.</li> <li>• Adequate height of Stack is proposed to submerged arc furnace as so control the emission below 50 mg/Nm<sup>3</sup>.</li> </ul>
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 is followed for all operations under construction and will be also continuously followed during 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.	<ul style="list-style-type: none"> <li>• Fugitive emission controls measures are taken care by water spraying on road and work zone area during construction.</li> <li>• DE system for RMHS and dry fogging at conveyors is proposed during operations.</li> <li>• Work zone dust monitoring for fugitive emission has started from September'14 at two locations.</li> </ul>
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"> <li>• The total water requirement will not exceed 5.5MLD. .</li> <li>• Effluent Treatment Plant &amp; STP have been proposed.</li> <li>• Treated water is proposed to be recycled/ reused for plant operations, afforestation etc.</li> </ul>

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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"> <li>• A reservoir of 4.5 lakhs m3 capacity has been completed and further deepening till 5.5 lakhs m3 is under progress for rain water storage.</li> <li>• 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.</li> <li>• Moreover, M/s KRG Foundation, Chennai has submitted the technical feasibility study for implementation of rain water harvesting, over which actions are under progress.</li> </ul>
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"> <li>• M/s Vimta lab, Hyderabad has been engaged for monitoring of Surface water and ground water periodically as per guidelines. Report is enclosed as <b>Annexure II</b>.</li> <li>• Wastewater treatment facility (ETP) has been proposed to meet the norms of OSPCB/CPCB.</li> <li>• 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.</li> </ul>
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"> <li>• TCLP test will be conducted before using Fe-Cr slag for land filling or building materials etc.</li> </ul>
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"> <li>• 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.</li> <li>• Copy of the same also submitted to Eastern Regional Office of MoEF and OSPCB.</li> </ul>

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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"> <li>• Commitments made during PH are planned and actions are under progress to comply the same. Till FY'14 we have spent Rs. 21.89 Crs on commitments made during PH &amp; periphery development work. 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.</li> <li>• For FY'15 we have spent Rs 4.59 Crs and the details is attached as <b>Annexure-I</b>.</li> <li>• Further actions in this regard are going on.</li> </ul>
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"> <li>• Green belt development on 33% of project area is proposed in over next 3-4 years.</li> <li>• In the first phase, we have planted 30,000 nos of saplings over 15 ha of area and avenue plantation over 5000 running meters with 1000 nos of saplings in this monsoon. The plant species have been selected in consultation with the DFO.</li> <li>• We have also carried Vetiver plantation on the slope of khari nallah running inside our plant area with three rows on each side covering total 3100 meters of length with more than 25 thousand saplings to prevent soil erosion and to have slope stabilization before this monsoon.</li> <li>• Moreover, till date around 10,000 nos had been planted at Taratarini temple site, 1,000 nos are planted outside plant premises on the occasion of World Environment Day and around 1,00,000 nos are planted in our Tata Rehab Colony.</li> </ul>
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"> <li>• Separate budget is earmarked for the CSR activities which also take into account the PH commitments and feedback from the surrounding communities.</li> <li>• Actions are being taken on health, HIV-Aids, Educations, Drinking Water, Infrastructure Development and Empowerment by our TSRDS wing (Tata Steel Rural Development Society).</li> <li>• Till FY'14 we have spent Rs. 21.89 Crs on commitments made during PH &amp; periphery development work. 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.</li> <li>• For FY'15 we have spent Rs 4.59 Crs and the</li> </ul>

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		details is attached as <b>Annexure-I.</b>
<b>Sl. No.</b>	<b>Specific Conditions</b>	<b>Compliance/Status</b>
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"> <li>• Rest sheds with toilet and drinking water facilities have been provided for the labours.</li> <li>• Medical health check-up is being done for the unskilled labours working in the site.</li> <li>• Temporary housing and other amenities for the construction workers has also been provided.</li> </ul>
15	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.	<ul style="list-style-type: none"> <li>• 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 was also submitted to MoEF Eastern Regional Office and OSPCB.</li> </ul>

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Sl. No.	General Conditions	Compliance/Status
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"> <li>• We are taking proper care to all the conditions and obligations of Consent to Establish and other conditions imposed by the government authorities.</li> </ul>
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"> <li>• Prior approval will be taken from MoEF for any further expansion/ modifications.</li> </ul>
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"> <li>• Adequate control measures are proposed in the Fe-Cr Plant and the Gaseous emission will be well within standards.</li> </ul>
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"> <li>• 6 AAQ 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.</li> <li>• M/s Vimta lab, Hyderabad has been engaged for the monitoring of ambient air quality, noise quality, surface water and ground water analysis. The report is enclosed as <b>Annexure II</b>.</li> <li>• Reports are submitted to MoEF regional office at Bhubaneswar, OSPCB and CPCB, Kolkata along with half yearly EC compliance.</li> </ul>
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"> <li>• Waste water from plant will be treated in ETP and will be reused/recycled including afforestation and gardening etc.</li> </ul>

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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"> <li>• Noise levels will be kept within limit with the help of noise control measures as proposed and will be monitored periodically.</li> <li>• Moreover, noise monitoring report is also enclosed as <b>Annexure II</b>.</li> </ul>
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"> <li>• Actions have been initiated for Initial and Periodic medical health check-ups.</li> <li>• OHS records would be maintained as per the Factories Act for surveillance and review.</li> </ul>
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"> <li>• A reservoir of 4.5 lakhs m3 capacity has been completed and further deepening till 5.5 lakhs m3 is under progress for rain water storage.</li> <li>• Suitable drainage pattern is proposed to collect the rain water.</li> <li>• Moreover, M/s KRG Foundation, Chennai has submitted the technical feasibility study for implementation of rain water harvesting, over which actions have been initiated.</li> </ul>
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"> <li>• All the proposed protection measures indicated in the EIA report will be implemented.</li> <li>• CSR activities for drinking water, health, education, infrastructure, empowerment, HIV-Aids etc. have been initiated.</li> <li>• Till FY'14 we have spent Rs. 21.89 Crs on commitments made during PH &amp; periphery development work. 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.</li> <li>• For FY'15 we have spent Rs 4.59 Crs and the details is attached as Annexure-I.</li> </ul>

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10	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 Bhubaneshwar. The funds so provided shall not be diverted for any other purpose.	<ul style="list-style-type: none"> <li>• Budget earmarked toward capital cost and recurring cost/annum for environment pollution control measures will not be diverted. The half yearly compliance report are submitted on periodically regular basis and this is the fifth report after grant of EC dated 14.08.2012.</li> </ul>
11	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.	<ul style="list-style-type: none"> <li>• EC copy has been submitted to the concerned Govt. /Private bodies in Aug'2012.</li> <li>• EC letter has been uploaded on the Tata Steel website, <a href="http://www.tatasteel.com">www.tatasteel.com</a> .</li> </ul>
12	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.	<ul style="list-style-type: none"> <li>• Last EC compliance report has been uploaded to the company's website <a href="http://www.tatasteel.com">www.tatasteel.com</a> and this half yearly compliance report shall also be uploaded.</li> <li>• Electronic multi-line display board has been installed on 5<sup>th</sup> June 2014 which displays the results of the monitored data i.e. ambient air quality, noise level, and water quality at the entrance of the plant site.</li> <li>• M/s Vimta lab, Hyderabad has been engaged for the monitoring of ambient air quality, noise quality, surface water and ground water analysis. The report is enclosed as <b>Annexure II</b>.</li> <li>• Reports are submitted to MoEF regional office at Bhubaneswar, OSPCB and CPCB, Kolkata along with half yearly EC compliance.</li> </ul>
13	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.	<ul style="list-style-type: none"> <li>• Half Yearly compliance report is periodically being submitted to the Regional Office of MoEF, CPCB Kolkata and OSPCB in hard copy and the soft copies are also being sent through e-mail.</li> </ul>

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14	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 alongwith 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.	<ul style="list-style-type: none"> <li>• The environment statement for the financial year FY'14 was submitted to OSPCB, regional office MoEF and CPCB on 17<sup>th</sup> Sept'14 vide letter no TSL/PG/Env/C-11/07/2014 and the same has been uploaded in our website <a href="http://www.tatasteel.com">www.tatasteel.com</a>.</li> </ul>
15	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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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.	<ul style="list-style-type: none"> <li>• Grant of EC Letter has been advertised on 19.08.2012 in two local newspapers namely <ul style="list-style-type: none"> <li>➤ SAMBAD in Oria language (page no. 9) and</li> <li>➤ The New Indian Express in English language (page no. 5)</li> </ul> </li> <li>• Advertisement details have been submitted to the MOEF Eastern Regional Office at Bhubaneswar on 19.08.12 and were also attached with the 1<sup>st</sup> Half Yearly compliance Report.</li> </ul>
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"> <li>• Project funding for this project is planned to be funded through internal accruals.</li> <li>• The project received final approval from the Board of Tata Steel in Aug' 2010.</li> <li>• 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 &amp; PG-Env/C-01/04/2013, dated 10<sup>th</sup> May 2013. However, work was stopped on 2<sup>nd</sup> August 2013 due to ransack by local villagers at our site office &amp; also due to cyclone effect. The work has again resumed from January'14.</li> </ul>



Annexure I

**CSR Expenditure by Tata Steel, Gopalpur during FY'15**

<b>Sl. No</b>	<b>Expenditure Head</b>	<b>Amount</b>
1	Drinking water	1701080
2	Health	2505668
3	Education	4762917
4	Skill Development	5587454
5	Agriculture	11236888
6	Emp.	4642172
7	Environment	1756135
8	Sports	152228
9	Infrastructure	2610076
10	Other prog (Ethnicity)	224049
11	Common Exp./Administration	10775603
	<b>TOTAL</b>	<b>45954270</b>