



The Chief Conservator of Forests (Central)  
Eastern Regional Office  
Ministry of Environment & Forests  
Government of India  
A/3, Chandrashekharapur,  
Bhubaneswar – 751023, Odisha.

TSL/PG/ENV/135/2015  
October 26, 2015.

Dear Sir,

Sub: Half Yearly Compliance Report (April<sup>2015</sup> to Sep<sup>2015</sup>) for Environmental Clearances to M/s Tata Steel Ltd. for 55,000 TPA High Carbon Ferro-Chrome Plant, 4,00,000 TPA Rebar Mill and 1.2 MGD Desalination Plant at Gopalpur villages Chamakhandi, Sindhigaon and Jagannathpur, Tehsil Chhatrapur, District Ganjam, Odisha.

We are enclosing the Half Yearly Compliance Report for period April 2015 to Sept'2015 for the conditions stipulated in Environmental Clearance to the above referred project vide MoEF's letter No. J-11011/55/2011-IA.II(I) dated 14<sup>th</sup> August 2012 and amended EC dated 08<sup>th</sup> August 2014, for your kind consideration. The copy of the compliance report is also being sent in the soft format to e-mail id ([mef@nic.ir](mailto:mef@nic.ir)) for your kind perusal.

We wish to mention that all the necessary actions are being taken in compliance to the specific and general conditions of Environmental Clearance granted to the project.

We trust that the information furnished is in line with your requirement.

Thanking You,

Yours faithfully,

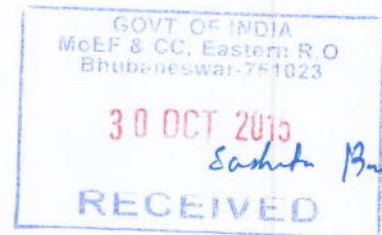
For TATA Steel Limited,

  
Pervez Akhtar  
Chief Gopalpur Project.

Encl. a/a

Copy to:

1. Member Secretary, Odisha State Pollution Control Board, Bhubaneswar.
2. Member Secretary, Central Pollution Control Board, Kolkata;
3. Regional Officer, State Pollution Control Board, Berhampur.



TATA STEEL LIMITED

Project Gopalpur Gajapati Nagar Main Lane Berhampur 760010 Dist. Ganjam Odisha India  
Tel: +91 690 2200212 2200046



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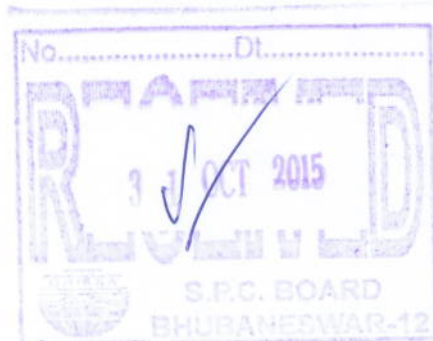
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Project Gopalpur Gajapati Nagar Main Lane Berhampur 760010 Dist. Ganjam Odisha India



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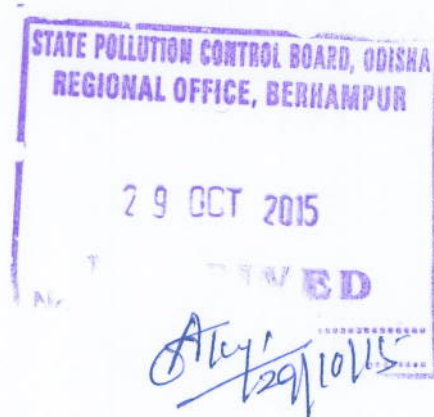
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**TATA STEEL LIMITED**

Project Gopalpur Gajapati Nagar Main Lane Berhampur 760010 Dist. Ganjam Odisha India  
Tel +91 680 2790212 2790046



Half-Yearly Compliance Report (April 2015 to September 2015) 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, 400000 TPA Rebar Mill & Desalination Plant at Tehsil Chatrapur, Ganjam Odisha by TATA Steel Limited

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 the provision of CRZ Notification, 2010 on 18.03.2013 vide letter no. F No. 11-63/2012-IA.III from MoEF &amp; CC (IA Division).</li> <li>• A Six- monthly compliance report to the conditions of CRZ clearance is being 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 for plant operations. Rather, Coal shall be used as fuel.
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 emission monitoring facilities for all process stacks will be provided as proposed.</li> <li>• Fume Extraction System with bag filters and ID fan is being installed to control emission.</li> <li>• Adequate stack height for submerged arc furnace is maintained so as to 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.	Air Quality standards conforming to NAAQS vide GSR 826(E) has been referred for air quality monitoring and review.
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.	Water sprinkling by mobile tankers is being carried out on a regular basis so as to control the dust emissions. CPCB guidelines shall be followed to control the secondary fugitive emissions.
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.	The total water requirement will be within 5.5 MLD. The Effluent Treatment Plant (ETP) & Sewage Treatment Plant (STP) is proposed for the operational phase and treated water shall be recycled for plant operations as well as green belt development & maintenance.

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Sl. No.	Specific Conditions	Compliance/Status
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.	A water reservoir of 4.5 lakhs liter capacity is already in place to harvest the rain water during the monsoons. The reservoir is currently being further deepened to augment its capacity to 6 lakh liters.
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>• Regular monitoring of Air Quality, surface water, ground water as well as sea water quality is being carried out by MoEF registered laboratory at various locations within and around the project site. Report is enclosed as Annexure – II.</li> <li>• ETP and STP have been proposed to meet the norms of OSPCB/CPCB.</li> <li>• Leachate study for effluent generated during plant operation has been proposed. Reports pertaining to the same shall be submitted to the respective authority periodically.</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.	TCLP test will be conducted before using Fe-Cr slag before being land filled inside the plant or being used as building material. Hazardous substances, if found any shall be disposed off as per CPCB guidelines.
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.	Risk and Disaster Management Plan along with the mitigation measures have been submitted to the MoEF vide letter no. OP-Env/C-04/52/2012 dated 12.11.2012 along with a copy to Eastern Regional Office, MoEF and Odisha State Pollution Control Board, Bhubaneswar.



Half-Yearly Compliance Report (April 2015 to September 2015) 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, 400000 TPA Rebar Mill & Desalination Plant at Tehsil Chatrapur, Ganjam Odisha by TATA Steel Limited

S.N.	Specific Conditions	Compliance/Status
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.	Commitments made to the public during the public hearing / consultation meeting is being implemented on a continuous basis as per the budget allocated.
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>• 33% green belt has been planned over a period of 5 years and is being taken up in phase wise manner. Around 32500 saplings have been planted so far with an average mortality rate of not more than 10%.</li> <li>• We have carried out Vetiver plantation on the slope of khari nallah passing through 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> </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 has been earmarked for the CSR activities, community as well as peripheral development activities.</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>• Around 2.28 crores have been spent towards Enterprise social commitment during the last six months of the current financial year. (Refer Annexure I)</li> </ul>

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Sl. No.	Specific Conditions	Compliance/Status
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 working at project site.</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>• The Corporate Environment Policy is in place and has been submitted to the MoEF&amp;CC vide letter no. OP-Env/C-04/52/2012 dated 12.11.2012.</li> <li>• 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.	Stipulation as per OSPCB will be adhered to during project execution and subsequent operation phases.
2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Amendments in the Environmental Clearance were granted by MoEF&CC vide File no. J-11011/55/2011-IA II (I) on 08.08.2014.
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.	The Process units have been designed conforming to the load/mass standards notified by the Ministry in order to have the gaseous emissions under control and below the prescribed limits.
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 PM <sub>10</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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.	<p>Latest AAQ data as monitored in &amp; around the project site on 24 hourly basis at more than four locations is as follows;</p> <p>SPM: 100.3 – 130.6            PM 10: 39.1 – 58.4            PM 2.5: 16.7 – 27.3            SO<sub>x</sub>: 8.5 – 13.6            NO<sub>x</sub>: 10.9 – 15.3            CO: 148 – 302</p> <p>*Note: (Concentrations are expressed in µg /m<sup>3</sup>)</p>
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>Wastewater from plant will be treated in Effluent Treatment Plant and treated wastewater will be reused/recycled for plantation, dust suppression and other uses.</li> </ul>



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6	<p>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).</p>	<p>Low noise prone equipment is being given preference as a control measure for noise pollution.</p> <p>Provision of acoustic hoods, silencers and sound proof enclosures have also been made at various internal sites.</p> <p>Ambient Noise levels in Industrial area are measured at various locations and noise levels observed during the reporting period are;</p> <p>During daytime: 62.1 – 73.9 dB(A)</p> <p>During night time: 57.4 – 68.9 dB(A)</p>
7	<p>Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.</p>	<p>Initial &amp; Periodic medical check-up for workers are being done and records for the same are maintained as per the Factories Act. We have made a system so that Employee's Gate Pass is issued only by ensuring the initial medical check up.</p>
8	<p>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.</p>	<p>A water reservoir of 4.5 lakhs liter capacity is already in place to harvest the rain water during the monsoons. The reservoir is currently being further deepened to augment its capacity to 6 lakh liters for utilization of harvested water in the lean season.</p>
9	<p>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.</p>	<ul style="list-style-type: none"> <li>• Environmental protection measures as proposed in the EIA and EMP report is being implemented.</li> <li>• Various socio-economic developmental activities in the area of Health, Education, Sports, agriculture, and infrastructure development are on-going in the surrounding and periphery villages. Recently, five (5) no.s of mobile medical units have been added for immediate treatment to the local people.</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 Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Requisite Fund has been earmarked towards the capital cost and recurring cost/annum for environment pollution control measures and will not be diverted for any other purpose. An implementation schedule for implementing all the stipulated conditions is in place.
11	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.	<ul style="list-style-type: none"> <li>• Environment Clearance copy has been submitted to the concerned Govt. /Private bodies in Aug 2012.</li> <li>• Environment Clearance 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>• The previous six monthly Environment Clearance 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 will 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>• The compliance reports are being sent to the Regional Office, MoEF and the respective zonal office of CPCB and SPCB.</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.	Six Monthly Compliance report for the period October 2014 to March 2015 was submitted to MoEF/OSPCB Regional Office both in hard as well as soft copy on 03.06.2015.



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Sl. No.	General Conditions	Compliance/Status
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.	The environment statement for the financial year FY'15 was submitted to OSPCB, regional office MoEF and CPCB on 26 <sup>th</sup> September 2015 and the same has been uploaded in our website <a href="http://www.tatasteel.com">www.tatasteel.com</a> .
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.	Complied. Paper advertisement details are as follows; a. Odia : SAMBAD, Page No. 9 b. English: The New Indian Express , 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 1 <sup>st</sup> Half Yearly compliance Report.
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 is being funded through internal accruals.</li> <li>• The project received final approval from the Board of Tata Steel in August 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 2014.</li> </ul>

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Annexure I

CSR Expenditure by Tata Steel, Gopalpur during FY'16 – Till September 2015		
Sl. No	Expenditure Head	Amount
1	Drinking water	42753
2	Health	3456938
3	Education	63727
4	Skill Development	367221
5	Agriculture	388000
6	Emp.	1150289
7	Environment	4696
8	Sports	0
9	Infrastructure	14684910
10	Other prog (Ethnicity)	6607
11	Common Exp./Administration	2592362
	<b>TOTAL</b>	<b>22770271</b>