No.	Condition	Compliance Status
Spee	cific Conditions	••
i.	The gaseous emissions from various process units should conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> 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 should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.	All the existing and new units are provided with adequate pollution control equipment (PCEs) to ensure the emission levels within specific legal requirement. Please refer <b>Annexure – I</b> for monitoring reports for April 2014 to March 2015.
ii.	As reflected in the EIA/EMP report, the waste water generation shall not exceed from the existing level from various units namely, Sponge iron plant, steel melting shop, rolling mill, rotary hearth furnace. The company shall undertake closed circuit system for the wastewater treatment and the sludge recycled to the sinter plant. The recover and recycling of Susangharia nalla water shall be carried to recycle 800m3/hr water. The Jugsalai and Ram Mandir nalla shall be made zero discharge. However, 31300 m3/d of treated effluent after confirming to the prescribed standards shall be discharge into Subaranarekha river. The treated waste water to be discharged into the Kharkai river should remain at the existing level of 1364m3/d. The domestic waste water after treatment in STP should be used for green belt development	<ul> <li>Waste water treatment plants have been provided in all the operating units. The treated water is recycled and reused for various processes within the plant.</li> <li>The discharge quantity from the works drain is kept within the prescribed standard.</li> <li>Waste water recovery system has been provided at all the process drains.</li> <li>Discharges to Subarnarekha River &amp; Kharkai River are confirming to prescribe standards.</li> <li>Please refer Annexure - I for monitoring reports for April 2014 to March 2015.</li> </ul>

iii.	In plant control measures for checking fugitive emission from spillage/ raw materials handling should be provided. Further specific measures like provision of dust extraction system at sinter plant, stock house fume extraction system at cast house of blast furnace shall be installed. Particulate emissions shall not exceed 100mg/Nm3. Further de- dusting facilities at new lime kiln, sinter plant and wet suppression system at raw material bedding and blending plant shall be	To check the fugitive emission in raw material handling, dry-fog dust suppression systems are effectively operating. Spillage on the road, along the conveyors, if any, is collected and recycled. ESP and Bag Houses are installed in Sinter Plants. Cast Houses of Blast furnaces are having Fume Extraction System. Lime Kilns have been provided with Bag House. The emissions from the stacks are within specified limits. Please refer <b>Annexure – I</b> for monitoring reports for April 2014
iv.	provided. The company shall phase out steam coal burning by using by products fuel gas and replace existing wet quenching facility of coke oven battery No.5,6 and 7 by dry quenching to recover energy and reduce CO2 green house gas emission.	<ul> <li>to March 2015.</li> <li>The conversion of all the coal-fired boilers to gas firing in PH # 3, PH#4 &amp; PH # 5 has been completed.</li> <li>Coke dry quenching facility has been commissioned at battery no. 5, 6 &amp; 7.</li> </ul>
v.	As per the solid waste management plan submitted to the Ministry, about 7268 TPD of solid waste shall be generated. There shall be no generation of boiler ash as BF gas would be used instead of coal. The company shall recycle the BF and LD slag for cement manufacturing, road embankment, construction and filing up of low-lying areas. As per the plan submitted to the Ministry the company shall reuse 100% of BF and LD slag by December 2007.	<ul> <li>Tata Steel has been successful in achieving almost complete utilization of most of the solid wastes except LD Slag. Tata Steel has taken a number of initiatives to find increasing usage of LD Slag in construction, road making, soil conditioning and cement making. The initiatives include among others:         <ul> <li>Approvals from BIS for use of LD slag in cement making.</li> <li>Commercial trials for use of LD slag as soil conditioner.</li> </ul> </li> <li>Three of four power houses within the Steel Works do not have even provision for firing coal. Only one</li> </ul>
		boiler located at Power House 4 has provision for coal firing in addition to by-product gas firing. Normally this boiler also runs on

		has another of the second seco
		by-product gas. Only in case of emergency conditions and shortage by-product gas due to disturbance in plant operations, coal firing is done as per the need. The quantity of fly ash generated has reduced drastically which is handled appropriately.
vi.	<ul> <li>a. The chrome sludge (251kg/d) generated from the colour coating shall be disposed off in the lined pit within the plant premises and oily sludge (25TPD) shall be incinerated.</li> <li>b. The company shall undertake ground water quality monitoring around the chrome sludge disposal site and data submitted to the Ministry.</li> </ul>	<ul> <li>Chrome sludge is being disposed off in land filling facility in steel works.</li> <li>The analysis of ground water is done for chromium content; the values are within prescribed limits.</li> <li>Please refer <b>Annexure - I</b> for monitoring reports for April 2014 to March 2015.</li> </ul>
vii.	A green belt adequate width and density should be developed in an area of 7.0 ha of plant area in addition to the 75 ha of area already afforested within and around the plant premises as per the CPCB guidelines.	<ul> <li>We have planted approx. 28,576 saplings during April 2014 to March 2015 inside the works and Jugsalai Muck Dump area. Every year plantation done in available space.</li> <li>Almost all vacant space inside Works is covered with plantation.</li> </ul>
viii.	The company shall undertake rainwater-harvesting measures to harvest the rainwater for utilisation in the lean season as well as to recharge the ground water table.	<ul> <li>Rainwater collected from various facilities within the Steel Plant is channelled through surface drains into Cooling Pond. The rainwater thus collected is recycled in the plant.</li> <li>Rainwater harvesting has been planned and being implemented at suitable locations within the plant.</li> </ul>
ix.	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per Factories Act.	The health surveillance is being done as per Factory Act. Records are maintained at the Occupational Health Services. Health check up for contractors persons are conducted regularly.

v	Recommendations made in the	Toto Steel has implemented the
x.	CREP shall be implemented.	Tata Steel has implemented the recommendations of CREP.
xi	The company shall carry out life	Tata Steel had participated in the
XI	cycle assessment for monitoring	life cycle assessment conducted
	to assess the overall	with the government agencies.
	environmental improvement of	with the government agencies.
	the plant with respect to	
	consumption norms of natural	
	resources and energy and specific	
	norms for waste generation.	
B.G	eneral Conditions	
i.	The project authorities must	All the relevant stipulations made
1.	adhere to the stipulations made	by JSPCB and State Government
	by the Jharkhand Environment	are being complied.
	Conservation Board and the State	are being complica.
	Government.	
ii.	No further expansion or	We have received Environmental
	modifications in the plant should	Clearance for the expansion from
	be carried out without prior	6.8 MTPA to 9.7 MTPA Steel Plant
	approval of the Ministry of	vide MoEF letter no. J-
	Environment and Forests.	11011/691/2007-IA. (II) dated
		May 11, 2010.
iii.	At least four ambient air quality-	Four Ambient Air Quality
	monitoring stations should be	Monitoring Stations have been
	established in the downward	installed. Monitoring data on
	direction as well as where	ambient air quality and stack
	maximum ground level	emission is being submitted
	concentration of SPM, SO2 and	0 0
	Nox are anticipated in	Please refer <b>Annexure – I</b> for
	consultation with the state	monitoring reports for April 2014
	pollution Control Board. Data on	to March 2015.
	ambient air quality and stack	
	emission should be regularly	
	submitted to this Ministry	
	including its Regional office at	
	Bhubaneswar and State Pollution	
	Control Board/Central Pollution	
	Control Board once in six	
	months.	A 11 / · · · · · · · · · · · · · · · · ·
iv.	Industrial wastewater should be	8
	properly collected, treated so as to	Steel Works are let out after
	conform to the standards	treating them suitably. The
	prescribed under GSR 422(E)	discharge water quality is
	dated 19 <sup>th</sup> May, 1993 and 31 <sup>st</sup>	monitored at all the discharge
	December, 1993 or as amended	points
	form time to time. The treated	Please refer <b>Annexure – I</b> for
	wastewater should be utilized be	monitoring reports for April 2014

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	for plantation purpose.	to March 2015.
v.	The overall noise level in and	• The noise control measures
	around the plant area should 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 (night time).	<ul> <li>The hoise control incastres such as; silencers, enclosures, hoods, rubber pads, have been provided at the required places in the existing plant. The work areas where noise levels are high, earplugs and earmuffs have been provided to the people to minimize noise exposure.</li> <li>The high noise area within the plant have been identified and demarcated. Adequate caution boards are displayed and any one who enters the area is required to wear ear-plugs/earmuffs. The noise monitoring is done regularly.</li> </ul>
vi.	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 programmes, educational programmes, drinking water supply and health care etc.	Socio economic development activities are regularly undertaken in and around Jamshedpur through the two agencies namely, Tata Steel Rural Development Society and Tata Steel Community Development & Welfare Services Centers. The development activities undertaken in the surrounding community are need based and are in the field of health care, education, mid-day meals in schools, sports and culture, self- employment, drinking water, rural electrification, etc. Tata Steel also facilitate the Institutes like R D Tata Technical Institute, Tata Football Academy, Tata Archery Foundation, etc. which encourages the local talent to develop themselves and participate at National and International levels.
vii.	The project authorities shall	The total funds allocated for
	provide an amount of Rs 286	environment control measures are
	crores (question no.xix part b)	used for the defined purpose.
	funds both recurring and non-	No funds so provided have been
	recurring to implement the	diverted to any other purpose.

	conditions stipulated by the Ministry of Environment and	
	Forests as well as the State Government along with the	
	implementation schedule for all the conditions stipulated herein.	
	The funds so provided should not be diverted for any other	
	purposes.	
vii.	The Regional Office of this Ministry at Bhubaneswar/ Central Pollution Control	Six monthly compliance reports and the monitored data are being
	Board/State Pollution Control	submitted regularly. Please refer <b>Annexure – I</b> for
	Board will monitor the stipulated	monitoring reports for April 2014
	conditions. A six monthly	to March 2015.
	compliance report and the	
	monitored data along with	
	statistical interpretation should	
	be submitted to them regularly.	The Nation has been advertised in
ix.	The Project Proponent should inform the public that the project	The Notice has been advertised in two local newspapers viz. Chamkta
	has been accorded environmental	Aaina (Hindi) and The Avenue Mail
	clearance by the Ministry and	(English) on June 04, 2005 and
	copies of the clearance letter are	communication to this effect was
	available with the State Pollution	also sent to the MoEF.
	Control Board/ Committee and	
	may also be seen at Website of the Ministry of Environment and	
	Forests at http://envfor.nic.in.	
	This should 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	
	vernacular language of the locality concerned and a copy of	
	the same should be forwarded to	
	the regional office.	
x.	The Project Authorities should	Complied
	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.	