N o.	Conditions		Compliance Status
	cific Conditions:		
i.		the regional offic	compliance reports are being submitted to be regularly. The report for last 5 years ional office at Ranchi/Bhubaneswar is as
	Central/State Govt. shall	Six Monthly report	Submitted on
	be ensured and regular reports submitted to the	December 2016	November 25, 2016 vide letter no. EMD/C-41/183/16
	Ministry and its Regional Office at Bhubaneswar.	June 2016	June 01, 2016 vide letter no. EMD/C-41/78/16
		December 2015	December 05, 2015 vide letter no. EMD/C-33/215/15
		June 2015	May 19, 2015 vide letter no. EMD/C-33/58/15
		December 2014	November 18, 2014 vide letter no. EMD/C-33/175/14
		June, 2014	June 24, 2014 vide letter no. EMD/C-33/116/14
		December, 2013	December 16, 2013 vide letter no. EMD/C-33/237/13
		June, 2013	June 22, 2013 vide letter no. EMD/C-33/124/13
		December, 2012	December 29, 2012 vide letter no. EMD/C-33/330/12
ii.	Efforts shall be made to reduce RSPM levels in the	data is website(http://www.citizen/environmo	compliance reports along the monitored also uploaded in the www.tatasteelindia.com/ corporate-ent-compliance-reports.asp) MS have been commissioned to monitor SO ₂ , NO ₂ , CO, NH ₃ continuously.
	ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag house, gas cleaning plant, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology. Low NOx burners shall be installed to control NOx emissions. At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	 Low NOx bur units. Similarly in a provided in emission leve 	mers have been provided in all the new almost all the units alert facility have been case of units exceed any prescribed as the interlocking is technically not the production units.

- Existing electrostatic precipitator (ESP) shall be upgraded and provided to units to control new gaseous emissions within 50 mg/Nm³. ESPs shall be provided to pellet plant, cast house and stock house of blast furnaces and LD#3 shop. Waste gas from the drying and grinding unit of pellet plant shall be cleaned by bag filters. Adequate provisions shall be made to control NOx emissions. Bag house shall be provided to Lime kilns. Data on ambient air quality stack emissions and fugitive emissions shall regularly submit to the Ministry's Regional Office Bhubaneswar, Jharkhand Pollution Control Board (JPCB) and Central Pollution Control Board (CPCB) once in six months.
- There is a proposal to upgrade all the ESP of Sinter Plant (SP), F & G Blast Furnace & LD1 & LD2 steel melting shops. Among these 6 ESP at Sinter Plant have already been upgraded by the agency. The agreed emission for their upgraded emission has been guaranteed to be 50 mg/Nm³ with an efficiency of 99.9%.
- Bag Filters are provided in the Cast House and Stock House of all the Blast Furnaces.
- 3 nos. of bag filters have been provided in the Pellet Plant to control waste gas from the drying and grinding unit.
- 12 nos. of Bag House have been provided in Lime Plant in process and dedusting units.
- A total of 6 nos. of schemes to upgrade Existing Electrostatic Precipitator (ESP) have been commissioned at SP 1, 2 & 3. Additional 10 nos. of schemes to upgrade APCE including ESP and Bag Filters are being commissioned at various locations inside Works which shall be completed by FY 19.

- Land based fume iv. extraction system shall be provided to coke oven battery # 10 and 11 to arrest fugitive emissions during charging pushing operations. The coke oven gas shall be desulphurized reduction of H₂S content of coke oven gas in the by-product recovery section to below 500 mg/Nm^3 . On-line charging with high pressure liquor aspiration (HPLA) for extraction of oven gas, leak proof oven doors, hydraulic door and door frame cleaner, water sealed AP caps charging & pusher side emission extractor device shall be provided for the coke oven batteries to maintain VOC emissions within permissible limit. Land based fume extraction system for
- Land based fume extraction, desulphurization facilities, online charging with HPLA, Hydraulic door and door frame clearance, water seal AP caps and charging and pusher side emission extractor device etc were in place in both coke ovens battery 10 & 11 to minimize leaks from doors CAPs, etc and also to meet the CREP recommendations.
- Coke oven gas is being desulphurised in Battery 10&11. The monitoring reports shows that H₂S content is below 300 mg/Nm³.

	pushing emission control		(- /	,				
	from coke ovens shall be							
	provided.							
V.	*	As per the CREP guidelines, % of PLD, PLL & PLO of a batteries are being monitored thrice in a month. The max % of PLD is found to be 7.9 in Battery#6, max % of PLL found to be 0.9 in battery#6 and % of maximum PLO is found to be 1.6 in Battery#8 and maximum charging emission is found to be 52 sec in Battery#7. Byproduct gas is recovered and used for power generation captive Power House # 3, 4 & 5 and heating purpose in all the mills. Power is also being generated in TRT at G, H & I Blast Furnace. Sulphur is recovered from coke oven gas and sold to authorized buyers. By Products Quantity Quantity Generated in Apr'15- Mar'16 Apr'16- Mar'17 CO Gas 152812 Nm³/hr 157533 Nm³/hr Power generation, heating BF Gas 1854733 1897386 Power generation, heating LD Gas 57675 Nm³/hr 57687 Nm³/hr Power generation, heating Inhouse 140.42 MW 141.22 MW Supply to Works						
		Power generation	for operation					
		Sulpher 315 tonnes 365 tonnes Sold to externa authorized parties						
vi.	Only dry quenching method in the coke oven in new battery # 10 & 11 shall be adopted.	Coke Dry quenching (CDQ) facility is under commissioning in the new Coke Oven Battery # 10 and 11. The project likely to be completed by year 2018-19.						
vii.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 shall be followed.	 PM₁₀, PM_{2.5}, SO₂, NOx, CO, NH₃ continuously. There is one mobile monitoring facility & about 20 manual AAQMS located both inside the plant and also outside the plant area. All other AAQ parameters being analysed by approved environment laboratory are also found within prescribed limit. Monthly monitoring reports are being submitted to JSPCB and six monthly monitoring reports are being submitted along with EC compliance reports to Ministry's Regional office, CPCB and JSPCB. Please refer Annexure - I for monitoring reports for 						
viii.	In-plant control measures for checking fugitive emissions from all the vulnerable sources including bag filters and fume extraction system shall be provided. Dry fog dust suppression system / water sprinkling system shall be provided in raw material handling areas	Necessary to control list of a productio All the ar transfer t and/or di All these 4 nos. of been com	I fugitive dust en pollution on unit as Anne eas of dedusting ower, conveyor fog dust supplocations are befunit for dust missioned at	control measuremission. Please control devices exure 1. In a goperation as a reconnected pression systemeting monitored extraction systemetics of Blast Furnace	res are provided find enclosed a s for each of junction house, with bag filters n. once in month. Stem (DE) have ces, RMBB and dust extraction			

to control fugitive dust emissions. **Fugitive** emissions from different sources shall also be controlled by covered conveyors, water sprinkling in open yards and with dry fogging in the closed zones. Further, specific measures like asphalting of the roads within premises shall be carried out to control fugitive emissions. Fugitive emissions shall be controlled, regularly monitored and records maintained.

- system (DE) are being commissioned at various locations inside Works which shall be completed by Mar 2018.
- A total of 350 nos. of points for dust suppression system (DS) have been commissioned at Lime Plant, RMBB 1& 2, and C & F Blast Furnaces.
- A total of 43 nos. Industrial vacuum cleaners (IVC) have been commissioned at MPSPP, RMBB 1&2, SP 1, 2 & 3 and HBF. Additional 8 nos. of Industrial vacuum cleaners (IVC) are being commissioned at various locations inside Works which shall be completed by June 2017.
- Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within latest permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed. New standards issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 shall be followed.
- Secondary dust emission inside the plant in different critical areas is being monitored in about 350 locations monthly.
- The average work area dust monitoring during April 2016 to March 2017 is 5.1 mg/m³.

proposed, traffic decongestion plan shall be implemented in a time bound manner to reduce emissions in the city Jamshedpur and separate budget shall be allocated implementing the same. Maximum inbound and out bound material movement shall be done by railway wagons only to reduce dust emissions. Measures like covered conveyors for handling of bulk materials, centralized screening of iron ore, rationalization of weighing system, use of higher capacity vehicles etc. shall be adopted to reduce dust emissions. Mechanized vacuum cleaning of arterial roads shall be carried out on

Under the traffic decongestion plan in Jamshedpur city:

- Strengthening of marine drive (Western corridor) has been implemented
- Proposal of Eastern Corridor is in discussion with Govt. of Jharkhand and key issues settled

Inside the plant:

- Automatic traffic control system is in place to control the traffic density as well as the safely including secondary emission inside the plant.
- All the loaded trucks are ensured to be covered with tarpaulin sheets to avoid dust getting air borne and thus generation of secondary emission.
- Sign board have been placed on all the critical areas to keep the speed of the vehicle within 35 kmph to control secondary emission along the internal road (VIP Road) and similarly the vehicle speed is limited to 16 kmph in the units.
- All the loaded trucks/dumpers coming inside the plant with their valid PUC.
- 4 nos. of mechanized sweepers are deployed within Works for regular cleaning and dust evacuation of roads.
- Approx. 400 tonnes/month of dust from road being collected by these mechanized sweepers which are being reused in sinter making through RMBB.

regular basis to further • 2 nos. of mechanized sweepers are deployed in reduce dust emissions. Jamshedpur town for regular cleaning and dust evacuation of roads. Vehicular pollution due Approx. all the raw material is being transported to transportation of raw through railways to reduce the road transport load and materials and finished vehicular pollution. products shall be Dry fog dust suppression and water sprinklers are controlled. Proper provided to control dust emission during loading and arrangements shall also unloading activity. be made to control dust Tyre washing facility has also been provided in 8 emissions during loading strategic locations to keep tyres clean to reduce dust and unloading of the raw emission on roads and being installed in 5 additional and material finished locations. product. xii. As proposed, total water Due to water recycling facilities the total water requirement from River requirement from River Subarnarekha shall not cross Subarnarekha shall not 33.3 MGD for Steel Works. 33.3 MGD exceed A central effluent treatment plant (CETP) of 4 MGD has although permission for been constructed to treat and recycle most of the 227 MGD water effluent by tertiary treatment with Reverse Osmosis obtained vide letter dated 7th 1992. January, CETP is being augmented to increase treatment capacity Closed circuit cooling from 4 to 8 MGD. system shall be provided New BOD plant has been commissioned and existing to reduce further water BOD has been upgraded to treat the additional effluent consumption. A11 generated from Coke Oven Batteries including Battery wastewater from various 10 & 11. units shall be treated in Closed circuit cooling systems have been installed. the common effluent Catch pits at all the five designated drains have been treatment plant (CETP) constructed to recycle the treated effluent within plant. for primary, secondary All the mills are equipped with respective effluent and tertiary treatment treatment plants with settling tanks and oil skimming shall be either recycled or facility. used for dust suppression, slag quenching and green belt development etc. within the lease hold area. The phenolic effluent from the by-product recovery section of coke oven battery # 10 and 11 shall be treated in BOD plant. Wastewater containing suspended solids shall be passed through clarifloculation plant to recover and reuse the clarified water for cooling or cleaning. Mill effluent containing oil suspended solids shall be passed through oil and skimmers filter press. No treated shall wastewater be released out the premises and 'Zero' discharge shall be adopted by recycling

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	J-11011/691/2007-IA.II (I) dated May 11, 2010
all the treated water in the plant itself including from the existing plant.	
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. Continuous monitoring of Total Organic Compounds (TOC) in the wastewater treated in BOD plant from the coke oven plant shall be done at the outlet of ETP (BOD plant). All the treated wastewater shall be monitored for pH, BOD, COD, oil & grease, cyanide, phenolic compounds, Chromium+6 etc. besides other relevant parameters.	 There are two ponds inside Steel works viz. Upper Cooling Pond (UCP) and Lower Cooling Pond (LCP), which stores and harvest most of the surface run off with cooling water of the units. 38 nos. of rainwater harvesting structures in different office buildings have been provided inside the plant area of which some area has the facility of Ground Water Recharge system. RWH structure has been constructed based on the maximum rainfall of last 20 yrs. The BOD plant has facility of continuous monitoring of TOC. Similarly monitoring of other parameters on the outlet of the BOD plant is being done regularly. The monthly monitoring data is being submitted to JSPCB and six monthly reports are being submitted to regional office of MoEFCC at Ranchi and CPCB. Please refer Annexure - I for monitoring reports for April 2016 to March 2017.
xv. 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 Bhubaneswar, Jharkhand SPCB and CPCB. xvi. 'Zero' effluent discharge shall be strictly followed and no additional	 All the effluent viz. catch pits, service water etc are being monitored regularly. The treated effluents such as all ETP outlets and drains are being analyzed regularly. Online effluent monitoring system has been commissioned in all the drains to monitor effluent quality on a real time basis. Online effluent monitoring data is connected with CPCB/JSPCB. River Water quality of Subarnarekha and kharkai is also being monitored as a part of regular monitoring of surface water quality. There are two cooling water pond whose water quality is also regularly monitored as part of sub surface water quality. Ground water quality is also being monitored at 7 locations both inside and outside plant premises. Monthly monitoring data is being submitted to JSPCB and six monthly reports are being submitted to regional office of MoEFCC at Ranchi and CPCB. As per the water balance and plan of zero effluent discharge, all the plant effluent is being recycled in to different process units for various uses. The rain water

	used for green belt	
	development.	
xvii.	As proposed, the water consumption shall not exceed 5.7 m³/Ton of steel at 9.7 MTPHY stage. All the blast furnace (BF) slag shall be granulated and provided to cement manufacturers for further	The specific water consumption has been reduced to 3.83 m³/tcs during year 2016-17 as compared to 5.58 m³/tcs for the year 2013-14. Year Specific Water Consumption (m³/tcs) FY 14 5.58 FY 15 5.54 FY 16 4.39 FY 17 3.83 Online slag granulation facilities have been implemented in the all Blast Furnaces. All the BF Slag is being granulated and made available to the Cement plants for cement making.
	utilization in cement making as per the MoUs signed with various companies including M/s Lafarge, M/s Eco-cement & M/s ACC. LD slag after metal recovery shall be used in sinter plant, blast furnaces and LD convertor, aggregates making, road ballast making, soil conditioning etc. All the flue dust generated shall be recycled within the plant to the maximum extent. Mill scales, LD sludge, lime fines and flue dust shall be recycled back to the sinter plant. The BF gas cleaning plant sludge shall be used for manufacturing briquettes.	 Blast Furnace gas cleaning plant (GCP) sludge is reutilised in the process as well as being used for manufacturing briquettes. Additional initiatives undertaken for improving the utilization of LD Slag: Co-processing of LD Slag at Cement Kilns. Open & Closed Steam Ageing inside Works Use of LD Slag in Road Making & railway Ballast Collaboration with expert external agency for processing and subsequent use of LD Slag as aggregates and ballast.
xix.	•	 BOD Sludge and Coal Tar sludge generated from By Product Plant is being recycled in coke plant by mixing with raw materials. All other kind of process wastes are being reutilised in sinter plant. In house secured landfill with HDPE liner has been constructed to dispose chrome sludge generated from Cold Rolling Mill. A de-oiling plant has been commissioned and in operation to reuse the mill scale and sludge in the Sinter Plant by mixing with raw materials.

	1 /	· · · · · · · · · · · · · · · · · · ·
	recyclers/reprocessors.	
xxi.	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 Chromium sludge and other hazardous substances recovered from the slag and output waste shall be disposed off in secured landfill as per CPCB guidelines. As proposed, Jugsalai	 LD Slag is being used for road making. The TCLP test conducted by external approved agency. Leachate potential of all Heavy metals is negligible. Chrome Sludge is being disposed in the secured landfill inside Works. The reclamation of JMD has been completed. A rainwater
۸۸۱.	muck dump (JMD) shall be reclaimed in a time bound manner by covering the dump site with geo-netting and vegetation alongwith localized water harvesting.	harvesting facility has been constructed at the top of the JMD which is being utilized for development of greenery. Besides this, there is a provision to pump surface drainage carry out from the plant to JMD area for development of greenery.
xxii.	A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal to the Ministry's Regional Office at Bhubaneswar, Jharkhand SPCB and CPCB.	An action plan for Solid waste management has been submitted to JSPCB vides our letter no. EMD/C-02/460/11 dated December 16, 2011. We had also submitted road map regarding future generation and the disposal of solid waste vide our letter no. EMD/C-33/124/13 dated June 22, 2013. We have taken a number of steps to improve the solid waste utilization. For the period during April 2016 to March 2017, the solid waste utilization was 81.9% excluding storage of LD slag at Galudih for processing. Various actions have been already planned to improve the solid waste utilization further.
	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 Bhubaneswar, Jharkhand SPCB and CPCB.	Most of the solid waste is being reutilized. Information regarding solid waste and hazardous waste is being submitted in Environment Statement to the Board every year.
xxiv.	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	The quantity of generation of fly ash is on decreasing trend. Generation for last four years is as follows: Year Quantity generated in tonnes 2012-13 31,246 2013-14 20,951 2014-15 22,474 2015-16 15,348 Disposed in ash pond through HCSD system

		-11011/691/2007-IA.II (I) dated May 11, 2010
	'Memorandum of Understanding' shall be submitted to the Ministry's Regional Office at Bhubaneswar.	All the boilers have been converted from coal fired to gas fired. Thus there is no additional generation of fly ash in the power plant.
xxv.	A Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, Jharkhand SPCB and CPCB within 3 months of issue of environment clearance letter.	Disaster Management Institute, Bhopal has verified and certified the Risk assessment report and Disaster Management Plan vide their letter no. DMI/IDMU/Con-227/24 dated April 16, 2012. The same has been submitted to JSPCB.
xxvi.	shall be developed in more than 33 % area within and around the plant premises as per the CPCB guidelines in consultation with DFO.	We have planted approx. 60,801 saplings during April 2016 to March 2017 inside the works and Jugsalai Muck Dump area and in Township. Every year plantation done in available space. The following plant species are being planted: Ficus, karanj, Cicilipinia, Palm, Ashoka, Mahogany, Caesalpinia Arjun, Sita Ashok, Bakul, Spathodia, Kanchan, Jural, Tabulia, Sissam, Termanelia Sp.,Arica palm, foxtail palm, Tecoma, Kannel, Tababia, Ghandhraj, calendra, Tagar, Hemelia, Kamani, Karbi, Calendra etc.
cxvii.	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. Jora Pahar PF, Sand Pcha Rahar PF, Deluse RF located within 10 km radius of the project. Further, Conservation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.	 Prior Permission from State Forest Department has been obtained vide their memo. No. 2605 dated October 29, 2010. Wildlife Conservation Plan has been submitted to PCCF, Jharkhand vide our letter no. EMD/C-33/368/11 dated October 07, 2011. A revised Wildlife Conservation Plan for Tata Steel has been prepared with the help of approved external agency recommended by State Forest Department and submitted for approval vide our letter no. EMD/C-41/128/16 dated August 22, 2016. The same has been reviewed by PCCF-Wildlife, Jharkhand and final approved is awaited.
xviii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants shall be implemented	CREP recommendations have been implemented.

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xxix. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 18 th June, 2009 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar. xxx. At least 5 % of the total cost of the project i.e. ₹ Companies Act. The amount spent by the	
Public Consultation meeting held on 18 th June, 2009 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar. xxx. At least 5 % of the total cost of the project i.e. ₹ Companies Act. The amount spent by the	ment under the
satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar. xxx. At least 5 % of the total cost of the project i.e. ₹ Companies Act. The amount spent by the	ment under the
separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar. xxx. At least 5 % of the total cost of the project i.e. ₹ Companies Act. The amount spent by the	ment under the
Office at Bhubaneswar. xxx. At least 5 % of the total cost of the project i.e. ₹ Companies Act. The amount spent by the	ment under the
cost of the project i.e. ₹ Companies Act. The amount spent by the	ment under the
750.00 Crores shall be earmarked towards the corporate social responsibility and itemwise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Corporate Social Responsibility (CSR) and 2015-16 was ₹ 150.36 crore while during 2015-16 was ₹ 150.36 crore w	the Company on activities during 2014-15, it was any's Integrated website of Tata alloaded from
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.	empliance to this
General Conditions:	
i. The project authorities must strictly adhere to the stipulations made by the Jharkhand Pollution Control Board (JSPCB) and the State Government.	d authorization
ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and The Project informed that there shall be probabilities in obtained for the concerned authorities in medications, augmentation, and product medications of various products for the concerned authorities in medications, augmentation, and product medications in the plant obtained for the concerned authorities in medications in the plant obtained for the concerned authorities in medications in the plant obtained for the concerned authorities in medications are product of the concerned authorities in medications are product of the concerned authorities in medications.	in case of any mix change. The last three years

	Forests.				granted	15	16	17	
			Hot		in EC 12.5	10.163	10.655	10.826	
			Metal Crude						
			Steel	MTPA	11	9.331	9.959	10.005	
			Saleable Steel		10.8	9.073	9.697	9.714	
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this 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.	(SP), F shops. been u their u mg/Nm ESPs h Box Sta other a Bag Fi House above,	Among Among apgraded apgraded and with a ave been ack and reas who of H ar 3 bag filtrol wast	ast Fu these by th emiss n effici r Centra ere dec	o upgrad urnace & 6 ESP one agency of 9 ded in period al dedusting a lided in last Furnave been from the	of LD1 of Sinte oy. The been o9.9%. ellet pla ting sta s the m the Ca nace ea	& LD2 er Plant agreed guaran nt (Hoo ck) and lain crit est Hou ach. As ed in t	steel t have l emiss teed to od Stacl d bag fi teria. use and s explai he pelle	melting already sion for be 50 k, Wind alters in district as et plant
iv.	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, SO ₂ and NOx are anticipated in consultation with the Jharkhand PCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the Jharkhand PCB/CPCB once in six months.	4 onlind PM ₁₀ , I Works. manual outside submit The mode 2017 in PM _{2.5} in NAAQS CPCB in The all environt factors	There 1 AAQM 2 the properties to JS 2 onitoring andicates on few occurrence of the properties of the p	O2, NC is on S loca oblant SPCB, g data that a casion Lead ed envious air owhich as of some second s	ave been by, CO, I e mobile ted both area. Marea in the pass are wand Arronment quality includes other in all and do	NH ₃ content monitoring the control of the control	ntinuou toring e the p ng rep onal Off April 2 ers (exc ne pres are b tory. ents tl t of seal act	facility facility plant are port is face. 2016 to cept PM scribed peing detection to the state everal edivities,	ide the & 20 and also being March M ₁₀ and limit of one by
v.	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.	are bei		and a	vater mo nalysis re				
vi.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise	to all the hazard been p	he worke s. Facilit rovided	ers/off ties lik to red	equipment icers to a se silence uce nois e reveals	void ar rs, enc e at so	ny acco losers, ource. ´	mpanie hood e I`he mo	d noise tc have onitored

control measures exceeds >85 dBA for 8 hr exposures. Similarly in the including acoustic hoods, ambient also, the noise levels meet the prescribed silencers, enclosures etc. standards. on all sources of noise The ambient noise level monitoring is being done at generation. The ambient different part of the Jamshedpur town in frequent interval levels should outside Steel Works to assess the ambient noise level conform to the standards status. Noise level in the town is found beyond the prescribed under EPA standard in few occasions. The possible reason of Rules, 1989 viz. 75 dBA equivalent noise levels in respect of all categories of areas (daytime) and 70 dBA exceeded the standards for day and night times is due to heavy traffic movement in the town, market and (nighttime). commercial activities, festivals and other domestic celebrations and frequent religious rituals. vii. Occupational Health Regular health surveillance is being conducted i.e. 2 times Surveillance in a year to all the workers who have already attended of the workers shall be done on more than 40 years of age. The workers having age less regular basis and than 40 years are under gone occupational health records maintained as surveillance program once in a year. per the Factories Act. shall Rain Water Harvesting structure of 38 Nos. has been viii. The company develop surface as well as provided inside the plant area of which some area has the ground water harvesting facility of Ground Water Recharge system. RWH structures structures to harvest the have been constructed based on the maximum rainfall of rainwater for utilization last 20 yrs. the lean season besides recharging the ground water table. ix. The project proponent Socio economic development activities are regularly shall also comply with all undertaken in and around Jamshedpur through the two agencies namely, Tata Steel Rural Development Society environmental and Tata Steel Community Development & Welfare protection measures and Services Centers. The development activities undertaken safeguards recommended in the surrounding community are need based and are in in the EIA/EMP report. the field of health care, education, mid-day meals in Further, the company must undertake socioschools, sports and culture, self-employment, drinking economic development water, rural electrification, etc. Tata Steel also facilitate the Institutes like R D Tata Technical Institute, Tata activities in the Football Academy, Tata Archery Foundation, etc. which surrounding villages like community development encourages the local talent to develop themselves and programmes, educational participate at National and International levels. programmes, drinking Details of CSR spend in Jamshedpur water supply and health Rs Crs care etc. Fin Year FY10-11 97.15 FY11-12 106.43 FY12-13 120.34 FY13-14 136.95 FY14-15 76.85 FY15-16 57.42 Total 595.14 As proposed, ₹ 2,107.00 Capital expenditure on environment is being spent on Air 60.00 Crores and ₹ Pollution Control, Solid Waste Management, Zero Waste Water Discharge and Others including Greenery, Online Crores shall earmarked towards total Monitoring, etc. The total budget for the same as allocated capital cost and recurring by TSL Board is ₹ 2340 Crores. Form this budgeted cost/annum amount, total commitment has been made for ₹ 1,508 environmental pollution Crores till end of March 2017.

control measures and 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.	The funds for capital investment on pollution control equipment are not diverted.
xi. The Regional Office of this Ministry at Bhubaneswar/CPCB/Jha rkhand SPCB will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.	Six monthly compliance reports and the monitored data are being submitted regularly.
xii. 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 JSPCB 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 shall be forwarded to the Regional office.	The Notice has been advertised in two local newspapers viz. Hindustan (Hindi) and Hindustan Times (English) on May 18, 2010 and communication to this effect was also sent to the MoEF vide our letter no. EMD/C-33/128/10 dated June 15, 2010.
xiii. A copy of Clearance letter shall be sent by 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 copy of Clearance letter has been sent to Zila Parishad, DIC, Local Body and all concerned vide EMD/C-33/129-137/10 dated June 15, 2010.

		-11011/091/2007-1A.11 (1) dated May 11, 2010
	The clearance letter shall	
	also be put on the	
	website of the company	
	by the proponent.	
xiv.	•	Six monthly compliance reports and the monitored data are being submitted regularly. The ambient air quality parameters are being monitored and displayed at the main gate of the company in the public domain.
	gate of the company in	
	the public domain.	
xv.	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 at Bhubaneswar, the respective Zonal Office of CPCB and the JSPCB. The Regional Office of this Ministry at Bangalore / CPCB / JPCB shall monitor the	Six monthly compliance reports are being submitted regularly both in hard copy and by e-mail.
xvi.	stipulated conditions. The environmental	The environmental statement for each financial year in
	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	Form-V is regularly being submitted to the Jharkhand State Pollution Control Board.

	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 Offices of the								
	MOEF by e-mail.		 						_
xvii.	Project authorities shall inform the Regional Office	It has complete	complied	as	the	project	has	already	been
	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.								