

Member Secretary,
State Environmental Impact Assessment Authority (SEIAA), Odisha
Bhubaneswar – 751 023, Odisha

KPO/Env/C-05/¢§ /2017 28th May 2017.

Dear Sir,

Sub.: Half yearly compliance Report for Oct'16 to Mar'17, for Environmental Clearance in respect of construction of residential complex for Tata Steel at Kalinganagar Industrial Complex, at Khurunti and Gadapur, Dist. Jajpur, Odisha.

Ref.: EC Granted by SEIAA vide Letter No. SEIAA/ 4669 dated 17.08.2015

Kindly find enclosed Six Monthly Compliance Report for the period from Oct 2016 to Mar 2017 for the conditions stipulated in Environmental Clearance on 17.08.2015 by SEIAA, Odisha for construction of residential complex for Tata Steel Plant Located at Kalinga Nagar Industrial Complex, at Khurunti and Gadapur, Dist. Jajpur, Odisha for your kind considerations.

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

Thanking you,

Yours faithfully,

U S Parkhi

Head, Environment, TSK

Encl. a/a

Copy to: The Addl. PCCF, Eastern Regional Office, MoEF&CC, BBSR for his kind perusal.



TATA STEEL LIMITED

Construction of Residential Complex for Tata Steel Plant

Kalinganagar Industrial Complex, at Khurunti and Gadapur, Dist- Jajpur, Odisha

Environment Compliance Report (Oct'2016 to Mar'2017)

Environment Department
Tata Steel Limited
Kalinganagar Industrial Complex
Duburi- 755026
Dist Jajpur, Odisha

GENERAL CONDITIONS		STATUS	
1.	The Project Proponent shall comply with all the conditions stipulated in the building approval letter.	We are implementing the project as per the conditions stipulated in the building approval letter.	
2.	The applicant (Project proponent) will take necessary measures for preventions, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned by them in form-1, form-1A, and Environment Management plan (EMP) in compliance with the prescribed statutory norms and standards.	Measures are being taken for preventions, control and mitigation of Air Pollution, Water Pollution, Noise Pollution and Land Pollution including solid waste management as mentioned in form-1, form- 1A, and Environment Management plan (EMP) in compliance with the prescribed statutory norms and standards	
3.	The applicant will take statutory clearance/ approval/ permissions from the concerned authorities in respect of the project as and when required.	Statutory clearance/ approval/ permissions from the concerned authorities is obtained to start the construction of project which includes: • Approval from Kalinganagar Development Authority (KNDA) • NOC from Director General of Civil Aviation for building height. • NOC from Fire Department, Odisha.	
4.	The applicant will submit half-yearly compliance report on post environmental monitoring in respect of the stipulated term and conditions in the environmental clearance to the State Environmental Impact Assessment Authority (SEIAA), Odisha, SPCB & Regional Office of the Ministry of Environmental & Forest, Odisha, on 1st June and 1st December of each calendar year.	We are submitting the six-monthly compliance report in stipulated time. Last Six-monthly compliance reports for the period April'16 to Sept'16 was submitted to SEIAA/MoEF&CC Regional Office / OSPCB Regional Office both in hard as well as soft copy on 25.11.16.	
5.	The project proponent shall obtain periodic Occupancy Renewal Certificate from the Competent Authority at an interval of 3 to 5 years as per the provisions of National Building Code (NBC) 2005.	Noted and same will be complied when required	
6.	The proponent shall comply to all the conditions stipulated by the Fire Prevention Officer, Odisha.	Noted and being complied.	
7.	The Applicant will adopt the prescribed norms, and standards provided in the national Building Code of India 2005.	Noted and being complied.	
8.	Consider the peak water consumption of the occupants, the design of the water supply system and sewage disposal system of the project should be based on the provisions of the water consumption.	Water supply system and sewage treatment system of the project is envisaged on the peak water consumption of the occupants.	

GENERAL CONDITIONS	STATUS	
9. The Project Proponent should ensure advertising in at least two local newspapers widely circulated in the region, one of which shall be in vernacular language informing the public that the project has been accorded environment clearance and copies of clearance letters are available with SEIAA, Odisha and the State Pollution Control Board (SPCB) And may also be seen on the website of the board. The Advertisement shall be made within 7 days from the date of issue of the environmental clearance & a copy of the same should be forwarded to the regional office of MoEF, Bhubaneswar.	Newspaper advertisement Details: Newspaper Language Date New Indian Express English 15.09.15 Samay Odia 15.09.15 Copy of the advertisement was submitted to SEIAA/MoEF&CC Regional Office /OSPCB vide our letter KPO/Env/C-08/61/2015 dated 18.09.2015. Refer Annexure-1	
10. A copy of the clearance letter shall be sent by the proponent to concerned panchayat, Zila Parisad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, where received while Processing the proposal. The clearance letter shall also be put be on the Website of the Company by the proponent.	Sarangapur Gram Panchayat and Zila Parishad vide our letter no KPO/Env/C-08/62/ 2015 dated 18.09.2015.	
The Proponent Shall upload the status of compliance of the stipulated environmental clearance conditions, including result of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF, SEIAA, Odisha, the respective zonal Office of CPCB and SPCB.	Status of compliance of the stipulated environmental clearance conditions, is available in company's website (www.tatasteelindia.com) Half yearly compliance report for Apr'16 to	
12. The Environment 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 Environmental (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the Status of compliance of environmental clearance conditions and shall also be sent to the respective regional Officers of the Ministry by e-mail.	regularly uploaded on company's website. (www.tatasteelindia.com). Environmental Statement shall also be put on website by 30.09.2017	
13. Any appeal against this environmental clearance shall lie with the Hon'ble Nation Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal act, 2010.	Noted.	

A.CONSTRUCTION PHASE

	SPECIAL CONDITIONS	STATUS	
1.	No ground water shall be extracted for the project work at any stage during the construction phase. If ground water will be used during construction phase, they shall obtain permission from the Water Resource Department.	We are using the river water for construction phase.	
2.	Provision shall be made for the housing of construction laborers within site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilet, 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 project.	Source of laborers is mainly from local area. No temporary housing is provided for construction laborers in the project site. First aid and medical facilities are available close to the site	
3.	A First Aid room will be provided in the project site both during construction and operation of the project	First Aid room is provided in the project site.	
4.	All the top soil excavated during construction activities should be stored separately for use in land filling, horticulture/landscape development within the project site.	, will be used in monsoon for plantation and	
5.	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities will be disposed off taking the necessary precaution for general safety and health aspects of people only in approved site with the approval of complete authority.	Disposal of muck during construction is disposed in covered trucks and construction waste is stored properly so that it may not create and adverse effect to neighborhood. All precautions are taken for general safety and health.	
6.	Construction spoils, including bituminous material and other Hazardous Materials should not be allow to contaminate watercourses, ground water and dump sites by following safe dumping / disposal practice as per statutory rules and norms with necessary approval of Odisha state Pollution Control Board.	Construction spoils including bituminous are stacked to avoid any contamination to the watercourses, ground water and dump sites. Hazardous waste generated during construction phase is used oil from DG sets, which will be given to authorized recycler of CPCB/OSPCB	
7.	The fuel for diesel generator sets to be used during construction phase shall be use low sulfur diesel fuel and should conform to Environment (Protection) rules 1986 prescribed for air emission and noise standard.	Low Sulphur diesel fuel is used for DGs during construction phase. DG sets will be conforming to	
8.	The Diesel required for operating DG sets shall be stored in underground tanks and if, required, clearance from Chief Controller of Explosive shall be taken.	Diesel is sourced from nearby dispensing units and we do not envisage a storage capacity that requires clearance from CCOE.	
9.	Vehicles used for bringing construction materials to the sites should be in good conditions and should have a pollution check certificate, covered and conform to statutory air and noise standards and should be operated only during non-peak hours of days.	Vehicles are checked periodically. Only Vehicles in good condition and with valid "pollution under Control" certificate are allowed to enter to the site.	

	SPECIAL CONDITIONS	STATUS	
10.	Ambient noise level should conform to residential standards both during day and night. Incremental	To reduce noise level, movement of construction vehicles is carried out during non-peak hours and	
	pollution loads on ambient air and noise quality should	construction machinery with lesser noise and	
	be closed monitored during construction phase.	·	
	Adequate Measures should be taken to reduce	vibration parameters are asea.	
	ambient air and noise level during construction phase,	For Dust suppression due to construction	
	so as to conform to the stipulated standards by CPCB/	activities, water sprinkling is done through truck	
	OPCB.	mounted tankers. Proper vehicle maintenance is	
		ensured to further check emissions and noise	
		control.	
11.	Fly ash bricks should be used as building material in	Fly ash bricks- sourced from nearby areas, are	
	the construction as per the provisions to fly ash	being used as building material. 247500 Nos. of	
	notification of September, 1999 and as amended	fly ash bricks have been used for construction, till -	
	thereafter.	date.	
12.	Ready mixed concrete should be used in building	Ready mixed concrete is being used in building	
	construction.	Construction. Till date 34000 cum of ready mix	
		concrete has been used for construction purpose.	
13.	Storm water control and its reuse should be as per	We have the provision for Storm water control and	
	CGWB and BIS Standard for these applications.	its reuse inside our complex.	
14.	Water demand during construction should be	Water conservation measures are adopted to	
	optimized by adopting best practices without	reduce the water demand during construction	
	compromising quality. It should be brought to the site	phase.	
45	by tanker.		
15.	Separation of grey and black water supplies and	Provision of dual plumbing has made for separation	
	collection should be done by the dual plumbing line. Grey and Black water should be adequately treated	of grey and black water supplies and their separate collection and treatment.	
	separately so as to confirm to the prescribed standard	At present, engineering of the same is complete	
	before recycling / reuse.	and it will be completed in due course of time.	
16.	Fixtures for showers, toilet flushing and drinking water	Noted and shall be implemented.	
	should be low flow type and restricted to requirements		
	by the use of aerators, avoiding wastage pressure		
	reducing devices or sensor based controls.		
17.	Use of glass may be, maximum up to 40% of the total	Use of glass will be restricted to less than 40 % of	
	outer wall area to reduce the energy consumption and	the total outer wall area.	
	load air conditioning. If necessary, high quality double		
	glass with special reflective coating may be used in		
	the windows.		
18.	Roof should meet the prescribed requirement as per	Roofs shall be constructed as per ECBC norms.	
	energy conservation building Code by using		
	appropriate thermal insulation material.		
19.	Opaque wall should meet prescribed requirement as	Opaque walls shall be made as per Energy	
	per the energy conservation Building Code.	Conservation Building Code.	
20.	The approval of the competent authority shall be	The approval from competent authority shall be	
	obtain for structural safety of the building due to	obtained for the structural safety of the building as	
	earthquake, adequacy of firefighting equipments etc.	per National Building Code of India, 2005 including	
	as per National Building Code of India, 2005 including	protection measure from lightning etc.	
	protection measure from lightning etc.		

	SPECIAL CONDITIONS	STATUS		
21.	Regular Supervision of the above and the other	Regular monitoring and supervision is being done		
	measures for the monitoring should be in place all by qualified persons during construction phase			
	through the construction phase to avoid disturbances	avoid disturbances and pollution to the		
	and pollution to the surrounding.	surroundings.		
22.	"Consent to Establish" shall be obtained from Odisha	We have obtained 'Consent to Establish' from		
	State Pollution Control Board before start of any	Odisha State Pollution Control Board vide. Letter		
	construction work at the site.	no. 17242, dtd. 31/10/2015		

B.OPETATION PHASE

	SPECIAL CONDITIONS	STATUS	
1.	No ground water shall be used during the operation phase. If ground water will be used during operation phase, they shall obtain permission from the water resources department.	We proposed to use the river water.	
2.	The proponent has to install STP of 730 KLD capacity. Treated effluent from STP shall be recycled / reused to the maximum extent possible after adequate treatment. Treatment of 100% grey water by decentralized treatment should be done. Discharged of unused treated effluent shall conform to the norms and standards of State pollution Control Board. Necessary Measures should be taken to mitigate the odour problem of STP.	installed to treat domestic effluent and reuse of treated effluent to maximum extent. Necessary Measures shall be taken to mitigate the odour problem of STP. Presently, civil work of STP is commenced.	
3.	The Proponent shall provide a polishing pond inside the residential complex to store and reuse the treated waste water from STP. From the Polishing pond, the treated waste water shall be diverted for industrial use for their own steel plant. In no case there should be any discharge of treated effluent to outside of the project premises.	We propose to provide adequate storage of treated wastewater from STP for re-use either within the colony or nearby steel plant premises. Necessary piping work is being envisaged.	
4.	The proponent shall take steps for protection of Ganda Nallah. There shall not be any Discharge from the residential Complex to Ganda Nallah.	Most of the treated water from STP will be reused and there shall not be any significant discharge from the residential complex to Ganda Nallah, except during monsoon.	
5.	The STP Sludge should not be dried nor incinerated within the Project site and should be dispose of as per the norms of SPCB, Odisha.	The sludge generated from STP shall be utilized as manure in green belt development area and gardens inside the premises.	
6.	The STP must treat all kind of pollutions present in it and its capacity should take into account the entire load of sewage generated by the inhabitants.	The proposed STP (based on SBT Technology) is capable to treat all kind of pollutions present in its inlet and the capacity of STP has been designed for treatment of entire load of sewage generated from the residential complex.	

	SPECIAL CONDITIONS	STATUS
7.	The project proponent will ensure that under no circumstances, the environment is polluted due to non-functioning / under performance of sewage disposal system of the project	Regular maintenance shall be carried out by dedicated team for smooth operation of sewage disposal system of the project.
8.	The solid waste generated should be properly collected and segregated. Wet garbage should be disposed off to be composted and dry / inert solid waste should be dispose through a certified agency for safe disposal. Necessary approval / permissions may be obtained from the concerned authorities. In no case it should be left in the premises untreated.	The solid waste generated shall be properly collected, segregated and disposed on regular frequency.
9.	Diesel power generating sets proposed as source of back-up power for lifts elevators and common area illuminating during operation phase should be of enclose type and conform to Environment (Protection) rule 1986. The height of stack of DG sets should be equal to the height of needed for the combined capacity of all proposed DG sets put together and should be more than the highest building height. Low sulfur diesel should be used. The location of the DG set may be decided in consultation with Odisha State Pollution Control Board. Care may be taken to avoid disposal of smoke / pollutants from DG sets in the residential area. Low sulfur diesel oil (LDO OR HSD) is to be used in DG sets.	Acoustically enclosed D.G sets of 600 KVA (2 Nos.) and 300 KVA (1 No.) capacity shall be installed during operation phase which conform to the rules made under E (P) A 1986 prescribed for air & noise emissions standards. Adequate stack height will be provided as per CPCB guidelines and norms. Low sulfur diesel shall be used.
10.		During post construction phase, noise measurements shall be carried out at the boundary of the project to ensure that the day and night time Leq are within the prescribed limits for residential area.
11.	Green belt & avenue plantation of tree over the site area (minimum 20%) shall be done using native tree species / shrubs improving greenery & keeping in view aesthetics considerations in the whole complex. Professional landscape architects should be engaged to design the green layout to provide for multi-tier plantation and green fencing all around, mitigation various environmental pollutants like dust, noise, emission etc. and pathway for joggers.	The same shall be complied during operational phase as per the green belt development plan submitted. We are also developing a nursery for in-house development of native tree species and shrubs.
12.	Rain water harvesting for roof runoff and surface runoff should be implemented as per submitted plan. Before recharging the runoff, pre-treatment must be done to remove suspended matter, oil,	Rain water harvesting for roof runoff and surface runoff shall be implemented as per the proposal submitted and proper maintenance will be provided for the all RWH pits. Care will be taken in order to avoid entry of

	SPECIAL CONDITIONS	STATUS
	grease and other soluble components as per the norms. Rainwater recharge should be through specified recharge pits of required numbers. The surface runoff water should be stored suitably treated and reused for landscaping. The bore-well for rainwater recharging should be kept at least 5 meter above the highest ground water table. The technology may preferably be adopted from a registered commercial firm with performance guarantee.	contaminated water in any of RWH pit.
13.	Weep holes in the compound walls shall be provided to ensure natural drainage of excessive rain water in the project area during the monsoon period after the harvesting operations. Care must be taken so that there is no water logging in the territory and drainage is 100%.	Well-designed storm water management system shall be adopted to ensure proper flow of runoff during rains. Rainwater harvesting system has been proposed to recharge the ground water aquifers during rains.
14.	Traffic congestion near the entry and exit points from the road adjoining the proposed project site must be avoided. Traffic congestion shall be avoided inside the project site. The area ear-marked for parking shall not be used for any other purpose. Alternative entry and exit must be provided to handle excess traffic and emergency situations.	Separate entry and exit points have been proposed to prevent congestion near the entry and exit points from the road adjoining the proposed project site. Adequate space has been proposed for parking.
15.	A report on the energy conservation measures to energy conservation norms finalized by the bureau of energy Efficiency should be prepared incorporating details about building materials & technology, R & U Factors etc. and submitted to the SEIAA, Odisha in three months' time before operation/habitation.	Noted and the same Shall be submitted to the SEIAA, Odisha in three months' time before operation/habitation.
16.	The proponent shall be use at least 2-5% of non-conventional energy (solar energy) (i.e. % of total energy consumption).	Use of solar panels shall be adopted to the maximum extent possible, especially for street lights.
17.	Provisions of solar hot water storage / supplies at the roof of top may be made as per statutory norms of CPCB/MoEF/SPCB, Odisha.	Same will be provided during the operation phase. Provisions for the same shall be made as per statutory norms of CPCB/MoEF&CC/SPCB, Odisha during the construction phase itself.

	SPECIAL CONDITIONS	STATUS	
18.	Energy conservation measures like installation of CFLs/TFLs for lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Used CFLs and TLFs should be properly collected and disposed off/ sent for recycling as per the prevailing guidelines / rules of the regulatory authority to avoid toxic contamination,	from the operation phase and shall be in place before project commissioning.	
19.	Use of solar panels be adopted to the maximum extent possible, especially for street lights. The building blocks should have adequate distance between them to allow movement of fresh air and passage of natural light, air and ventilation.	The building blocks have been planned in such a way to allow movement of fresh air and passage of natural light, air and ventilation, between them.	
20.	The funds earmarked for the environment protection measures shall be judiciously utilized. Under no circumstances this fund shall be diverted for other purposes like annual allocation and maintenance / monitoring etc. and expenditure for this fund should be reported to the SEIAA, Odisha on regular basis.	The funds earmarked for the environment protection measures shall be judiciously utilized and shall not be diverted for any other purposes.	

Annexure-1



The State Environment Impact Assessment Authority (SEIAA), Odisha has accorded Environmental Clearance to Residential Complex of Tata Steel Limited for Tata Steel Plant located at Kalinganagar Industrial Complex at Village Khurunti & Gadapur, in the district of Jajpur, Odisha.

The copies of Environmental Clearance, SEIAA/4669 dated 17.08.2015 are available for reference with SEIAA, Odisha and Odisha State Pollution Control Board (OSPCB) and may also be seen at website of the Board.

The State Environment Impact Assessment Authority (SEIAA) has accorded the environmental clearance for the said project under the provisions of EIA Notification, 2006.

Project Manager, Residential Complex, Tata Steel





The Member Secretary, State Environmental Impact Assessment Authority, Qr. No.- 5RF-2/1, Unit-9 Bhubaneswar - 751012, Odisha.

KPO/Env/C08/ € \ /2015 18th Sept . 2015

Dear Sir,

Sub: Environmental Clearance for proposed construction of Residential Complex of Tata Steel Ltd located at KNIC at Khurunti & Gadapur, Dist - Jajpur with Total Built up Area of 147380 Sq. m

Kindly refer to the Environmental Clearance granted by SEIAA, vide letter no. SEIAA/4669 for the above referred project which was received by us on 10.09.2015.

We wish to submit that in compliance with the stipulated General Condition no. 9 of the above referred Environmental Clearance, information regarding grant of Environmental Clearance was given to public through newspaper advertisement as per the following details:

Language	News paper	Page No.	Date
Odia	The Samay	03	15/09/2015
English	New Indian	09	15/09/2015
	Express		

Copies of above advertisements are enclosed for your kind information.

We trust the information furnished is in compliance with the condition.

Thanking You,

Yours faithfully For Tata Steel Limited

Rapis Lunas

Rajiv Kumar

Vice President, Operations, KPO

VP (Operations-KPO)
Encl. As above L LIMITED

Copy: Addln. PCCF(C), MoEF Eastern Regional Office for kind information — Member Secretary, OSPCB for kind information

Site Progress: A Glance



Building construction in progress





Nursery for development of native plantation



First Aid Centre at Project Site

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