

**F.No.11-19/2014-IA-III**  
Government of India  
Ministry of Environment, Forest & Climate Change  
(IA.III Section)

Indira Paryavaran Bhawan,  
Jor Bagh Road,  
New Delhi - 3

Dated: 24<sup>th</sup> November, 2015

**To**

The Head – Vikhroli Projects (Devl.),  
M/s Tata Power Company Ltd,  
Corporate Centre, A Block, 4<sup>th</sup> Floor,  
Sant Tukaram Road, Carnac Bunder,  
**Mumbai** – 09

**Sub: '220 KV Kalwa Salsette Transmission line' (Augmentation of existing 110 KV line) in Mumbai Suburban (Maharashtra) by M/s Tata Power Company Ltd – CRZ Clearance - reg.**

Sir,

This has reference to your proposal forwarded by the Member Secretary, Maharashtra Coastal Zone Management Authority (MCZMA) vide letter no. CRZ 2013/CR 264/TC 3 dated 07.04.2014 and your letters dated 11.09.2014 & 24.06.2015, to this Ministry for grant of CRZ Clearance in term of the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 under the Environment (Protection), Act, 1986.

2. The proposal for **'220 KV Kalwa Salsette Transmission line' (Augmentation of existing 110 KV line) in Mumbai Suburban (Maharashtra) by M/s Tata Power Company Ltd**, was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its meetings held on 19<sup>th</sup> - 21<sup>st</sup> May, 2014, 29<sup>th</sup> September, 2014 – 1<sup>st</sup> October, 2014 and 29<sup>th</sup> – 31<sup>st</sup> July, 2015.

3. The details of the project, as per the documents submitted by the project proponents (PP), and also as informed during the above said EAC meetings, are reported to be as under:-

(i) The proposal involves construction of 220 kV Kalwa – Salsette Transmission Line (Up-gradation of old 110kV Transmission Line) between Village Airoli of District Thane and Villages Mulund & Nahur of District Mumbai Suburban.

(ii) Each Transmission Line tower has 4 legs and each leg rests on a pile type foundation of about 1 to 1.2 m diameter.

(iii) The height of the towers will be approximately 60 meters and the distance between two towers will be approximately 250 m. Each tower accommodates 4 number of power circuits of 220 KV. Each circuit has got 3 power carrying conductors. In addition to that, the top wire is optical fiber guard wire which is essential for data transmission, communication, metering and protection of the power passing through the circuit.

(iv) Transmission Line project passes through CRZ I and II area of Mumbai and Thane.

(v) About 477 number of mangrove trees will get affected due to the proposed line. BNHS has suggested compensatory plantation of about 5,000 mangroves. The

Mangrove plantation will be carried out on 25 ha area at Village Sarsole under Tri Partite mode along with Forest Department.

(vi) **Wildlife issues:** The project site is at distance of 2.75 km from Sanjay Gandhi National Park. However, as per Supreme Court order it does not require clearance from National Board for Wild Life since project does not require Environment Clearance under EIA Notification 2006.

(vii) **Forest land:** The project involves diversion of 3.7496 ha of forest land.

(viii) **Investment/Cost:** The cost of the project is Rs. 217.42 Crores including underground cable costs.

(ix) **SCZMA recommendation:** The Maharashtra Coastal Zone Management Authority (MCZMA) has recommended the proposal vide letter No. CRZ 2013/CR 265/TC 3 dated 07.04.2014.

(x) **Employment potential:** Temporary employment during construction of transmission line.

(xi) **Benefits of the project:** The City life will face less problems due to improved reliability and adequate power supply to the Mumbai as well as remaining part of the state/country.

(xii) The Bombay High Court has passed an interim order on 27.01.2010 directing project proponent to approach to the competent authority to seek permission in accordance with the law.

(xiii) The report on the various alternatives was submitted to Power Grid Corporation of India Ltd (PGCIL) for their views.

(xiv) PGCIL have conveyed their views on the reports submitted by Project Proponent and recommended that there will be least damage of mangroves in the conventional approach pathways method. However, M/s Tata Powers should try to reduce damage to mangroves during the construction period using environment friendly materials. Further, M/s Tata Power should compensate the loss of mangroves through plantation of more numbers of saplings of mangroves as suggested by various Government agencies.

(xv) The Environment Impact Assessment of the Transmission Line project was carried out by Bombay Natural History Society (BNHS). BNHS have also prepared the Mangrove Conservation Plan for the project and suggested the following mitigation measures:

- a. The approach pathways with suggested dimensions and routes (temporary pathway of max 4 m wide including working space), during construction period, as per the EIA reports should be strictly followed.
- b. Complete prohibition of disposal of waste such as left over construction materials and disposal of such leftover must be done in the pre designated areas outside mangroves.
- c. The Right of way as demarcated or any other project activity should not restrict the flow of water to other mangroves and thus, adequate tidal water drainage system to be provided wherever necessary.
- d. Right of way should not be fully converted into concrete roads. Thus, on completion, dirt roads will be naturally repopulated by the mangroves.
- e. To compensate the loss of total 477 mature mangroves (394 due to approach path and 83 due to tower foundations), plantation of multi-species mangrove saplings would be undertaken.
- f. Plantation will be carried out under expert guidance.
- g. Tata Power has signed Tri-partite Agreement along with Forest Department, Government of Maharashtra and M.S Swaminathan Research Foundation, Chennai for mangrove plantation.
- h. As per the agreement, mangrove re-plantation on 25 ha. of degraded area in Survey No. 93, 99 & 100 of Sarsole Village in the vicinity of the project site.

- i. About 3,00,000 mangrove saplings of various species will be planted over a period of 5 years.
- j. This activity will cover survival, assessment and re-plantation of mangroves.
- k. The proposed species of mangroves to be planted are *Avicennia marina*, *Avicennia officinalis*, *Rhizophora mucronata*, *Cereops tagal*, *Sonneratia apatela* and *Sonneraia alba* as suggested by BNHS.

(xvi) The proposed site for compensatory plantation will have the following coordinates:-

Latitude (N)	Longitude (E)
19° 02' 53.25"	73° 00' 04.01"
19° 02' 46.32"	73° 00' 16.76"
19° 02' 25.26"	73° 00' 15.27"
19° 02' 25.39"	73° 00' 12.62"

4. The EAC, after deliberations, in its meeting held on 29<sup>th</sup> – 31<sup>st</sup> July, 2015, has recommended the project for grant of the CRZ Clearance. As per recommendations of the EAC, the Ministry of Environment, Forest & Climate Change hereby accords CRZ Clearance for the above-mentioned project '**220 KV Kalwa Salsette Transmission line' (Augmentation of existing 110 KV line) in Mumbai Suburban (Maharashtra) by M/s Tata Power Company Ltd**, under the provisions of the CRZ Notification, 2011 and amendments thereto and circulars issued thereon and subject to the compliance of the specific and general conditions mentioned below:

#### **PART A – SPECIFIC CONDITIONS**

##### **I. Construction Phase**

- (i) The Project Proponent shall ensure minimum damage to mangroves during the construction period using environment friendly materials.
- (ii) The Project Proponent shall compensate the loss of mangroves through plantation of more as per the conservation plan suggested by the BNHS. All conditions specified by the BNHS shall be strictly adhered to.
- (iii) All the recommendations and conditions specified by Maharashtra Coastal Zone Management Authority (MCZMA) vide letter no. CRZ 2013/CR 264/TC 3 dated 07.04.2014, shall be complied with.
- (iv) Prior permission from Hon'ble High Court shall be obtained for activity in mangrove and its buffer zone as applicable.
- (v) The Project Proponent shall use solid bricks/ ash bricks on geo-textile for roads which shall be removed after completion in satisfaction of Mangrove Cell, Government of Maharashtra.
- (vi) Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.

#### **PART – B. GENERAL CONDITIONS**

- (i) A copy of the clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.

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- (ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
5. The Environmental/CRZ clearance is subject to their obtaining prior clearance from forestry and wildlife angle including clearance from the Standing Committee of the National Board for Wildlife as applicable. The grant of environmental/CRZ clearance does not necessarily implies that forestry and wildlife clearance shall be granted to the project and that their proposals for forestry and wildlife clearance shall be considered by the respective authorities on their merits and decision taken. The investment made in the project, if any, based on environmental/CRZ clearance so granted, in anticipation of the clearance from forestry and wildlife angle shall be entirely at the cost and risk of the project proponent and Ministry of Environment, Forests & Climate Change shall not be responsible in this regard in any manner.
6. Officials from the Regional Office of MoEF&CC, Nagpur who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents submitted to MoEF&CC should be forwarded to the CCF, Regional office of MoEF&CC, Nagpur.
7. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
8. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
9. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.
10. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
11. The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Nagpur.
12. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation v/s. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.



13. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

14. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/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 website of the company by the proponent.

15. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

16. The environmental statement for each financial year ending 31<sup>st</sup> 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 Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

*SKS*  
24/11/2015

**(S. K. Srivastava)**  
**Scientist E**

Copy to:

1. The Secretary, Department of Environment, Govt. of Maharashtra, Mantralaya, Mumbai – 32
2. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 32
3. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Points, 3<sup>rd</sup> & 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, Sion (E), Mumbai - 22
4. Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur –1
5. Guard File
6. Monitoring Cell

*SKS*  
24/11/2015

**(S. K. Srivastava)**  
**Scientist E**