

F.No. 11-107/2010-IA.III
Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110 003.

Dated:- 19th May, 2011

To,
General Manager (Transmission Projects),
M/s. Tata Power Company Ltd.,
Bombay House, 24 Homi Mody Street,
Mumbai - 400 001

Subject: CRZ clearance for the erection of Transmission Line Towers a) Trombay back bay & b) Trombay - Salsette in Sewri area Mumbai, Maharashtra by M/s Tata Power, Mumbai - Reg.

This has reference to letter No. MCZMA/2010-CR-51/TC-3 dated 23.08.2010 from the Member Secretary, Maharashtra Coastal Zone Management Authority and your subsequent letter No. TP/GEM/005/285 dated 27.09.2010, 17.01.2011 and 25.02.2011 seeking prior CRZ Clearance for the above project under the Coastal Regulation Zone (CRZ) Notification, 1991. The proposal has been appraised as per prescribed procedure in the light of provisions under the Coastal Regulation Zone Notification, 1991 and amended in 2011, on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, recommendations of State Coastal Zone Management Authority and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 30th November, 1st & 2nd December, 2010, 3rd -4th March, 2011 and 5th -6th April, 2011.

2. It is interalia, noted that the Tata Power Company Limited is generating 1430 MW power at Trombay Thermal Power Station (TTPS) and supplying power to Mumbai city. The power demand of South, Central & North Mumbai area is growing rapidly due to upcoming activities such as slum rehabilitation, construction of Commercial Complexes, Multiplex, Malls, residential complexes, up-gradation of railways and Airport. To meet the growing power demand and to improve reliability of power supply to South, Central and North Mumbai, TATA Power is executing construction of transmission line which will augment the power evacuation from TTPS.

- a) Proposal - I - It is proposed to construct a new 220 KV Trombay - Dharavi - Salsette Transmission Line which has 15 numbers of towers passing through the CRZ area. MOEF has accorded approval for construction of 8 numbers of towers on 13th February 2008. After detailed route survey, as per the actual site condition and the final alignment of towers, it is observed that fifteen (15) numbers of



towers fall in CRZ area. The proposal is for construction of additional 7 towers including 8 approved towers.

- b) Proposal II - In order to augment the power evacuation from TTPS to South Mumbai, it is proposed to replace/ augment existing 110 KV line with 220 KV Trombay - Backbay Transmission Line on it's existing right of way. The proposal is for augmentation/ replacement of 8 towers which falls in CRZ area.

3. Each Transmission Line towers has 4 legs and each leg rests on a pile type foundation of about 1 to 1.2 m diameter. 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.

4. Both the Transmission Lines projects are interlinked to each other and passing through the same CRZ area. Only local wards of Mumbai Municipal Corporation are different and Environment Impact Assessment study of both the Transmission Lines Projects was carried out by BNHS. About 1607 number of mangrove trees will get affected due to the proposed line. Mangroves affected area will be around 0.6 Ha. BNHS has suggested compensatory plantation of about 25,000 mangroves. Mangrove plantation will be carried out on 13.8 Ha area at Trombay.

5. Both the projects were considered in 63rd meeting of Maharashtra Costal Zone Management Authority (MCZMA) held on 5th July 2010. MCZMA has recommended both the project to MOEF on 23rd Aug 2010. Bombay High Court has passed an interim order on 27th January 2010 directing TATA Power to approach to the competent authority to seek permission in accordance with the law. Principal Chief Conservator of Forest (PCCF), Maharashtra State has already recommended proposal to the Government of Maharashtra for clearance under Forest Conservation Act.

6. The proposal was examined by the EAC in its 94th meeting held on 30th November, 1st & 2nd December, 2010 and sought additional information. The EAC also constituted a 4 (four) member sub-committee to visit the site and examine the alternate routes for the transmission line to minimise the damage to the mangroves. Accordingly, sub-committee visited the site on February 4, 2011.

7. The committee members reviewed the locations and their approach roads of all the 15 towers in the Proposal - I and 8 towers in the Proposal - II falling in the CRZ area. The report entitled "Environmental Impact Assessment of Proposed Transmission Lines by Tata Power at Mahul Creek, Trombay" prepared by BNHS was also referred. The members visited important approach roads inside the mangrove area and the area designated for new mangrove plantation.



8. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent, additional clarifications furnished in response to its observations and the report of the Sub-Committee, have recommended for the grant of CRZ Clearance for the project. Accordingly, the Ministry hereby accord necessary CRZ Clearance for the above project as per the provisions of Coastal Regulation Zone Notification, 2011, subject to strict compliance of the terms and conditions as follows:

9. SPECIFIC CONDITIONS:

- (i) About 25000 saplings of *A. marina* mangrove shall be planted in the designated area as compensatory plantation against destruction of 1607 mangroves as suggested in the BNHS report.
- (ii) Tata Power shall construct the approach road to I-7 from the existing approach road for I-8 and drop the proposed construction of approach road from J4 to I-7 which involves cutting of 503 mangroves. The number of mangroves to be cut will therefore be much less (about 50 %).
- (iii) Tata Power shall allocate 2% of the project cost for the development and protection of mangrove coverage in the Sewri-Mahul area of Mumbai and also for CSR activities. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (iv) There shall be no drawl of ground water.
- (v) Construction shall be carried out strictly as per 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
- (vi) There shall be no disposal of solid and liquid wastes in to the Coastal areas.
- (vii) Installation and operation of DG set if any shall comply with the guidelines of CPCB.

10. GENERAL CONDITIONS:

- (i) Full support shall be extended to the officers of this Ministry/Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.



- (ii) Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (iii) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
- (iv) In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.
- (v) A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.
- (vi) State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's office for 30 days.

11. The project proponent shall 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 Environmental 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 and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 10 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 Bangaluru.

12. Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

13. 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.

14. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.


(Bharat Bhushan)
Director (IA-III)

19.05.2011

Copy to:

1. The Secretary, Department of Environment, Govt. of Maharashtra, Mantralaya, Mumbai - 400 032.
2. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
3. The Chairman, Maharashtra Coastal Zone Management Authority, Room No.217 (Annexe), Mantralaya, Mumbai - 400 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Points, 3rd & 4th floor, Opp. Cine Planet, Sion Circle, Sion (E) Mumbai - 400 022.
5. The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link, Road No. 3, Ravishankar Nagar, Bhopal- 462016 (M.P.)
6. Guard File.
7. Monitoring Cell.


(Bharat Bhushan)
Director (IA-III)

F.No.11-107/2010-IA.III (Pt.)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-III Section)

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

Dated: 3rd October, 2016

To

The Chief (Transmission Projects),
Tata Power Company Ltd,
Bombay House, 24 Homi Mody Street,
Mumbai - 400 001 (Maharashtra)

Sub: 'Erection of Transmission Line Towers a) Trombay Back Bay & b) Trombay - Salsette' in Sewri area, Mumbai (Maharashtra) by M/s Tata Power Company Ltd - Amendment in the CRZ Clearance - reg.

Sir,

This has reference to your letter No.TP/TDS/1348/2015 dated 16th April, 2015 and subsequent letter dated 30th May, 2016, submitting the above proposal to this Ministry for amendment in the CRZ Clearance dated 19th May, 2011 in terms of the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 under the Environment (Protection) Act, 1986.

2. The project '*Erection of Transmission Line Towers a) Trombay Back Bay & b) Trombay - Salsette*' in Sewri area, Mumbai (Maharashtra), was earlier accorded CRZ Clearance by the erstwhile Ministry of Environment & Forest (MoEF) vide letter No. 11-107/2010-IA-III dated 19th May, 2011.

3. The proposal for amendment in CRZ Clearance, was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 150th meeting held on 29-31 July, 2015.

4. The details of the proposal, as per the documents submitted by the project proponent, and also as informed during the EAC meeting, are reported to be as under:-

(i) The present proposal is for amendment in CRZ Clearance for replacing the location of mangrove plantation from Trombay to Sarsole, Navi Mumbai, District Thane.

(ii) The project proponent approached Bombay Natural History Society (BNHS) for assisting in mangrove plantation on land at Trombay. After site visit and considering the site conditions of the identified location, BNHS has conveyed that, "The identified 13.83 ha land at Trombay is not suitable for the mangroves plantation as there is no constant flow of tidal sea water to the site. This will increase the mortality rate and chances of survival of mangroves are very less." As per CRZ Clearance, page 2, item no. 4, "Mangrove Plantation will be carried out on 13.8 ha area at Trombay." The identified land at Trombay is not suitable for the mangroves plantation as there is no constant flow of tidal seawater to the site. This will increase the mortality rate and chances of survival of mangroves are very less. Subsequently, it has been decided to create a state of the art

Mangroves Park that will serve the purpose of compensatory forestation of 25,000 mangrove saplings for this project and for their upcoming project also.

(iii) BNHS therefore did not recommend PP's proposed site for the mangrove plantation and suggested PP to look for any other alternative land, which is closer to the seashore, or creek, has regular tidal inflow of seawater and has a better survival rate for mangroves. The PP was advised to approach the State Forest Department for the availability of suitable land.

(iv) In order to comply to the condition of compensatory afforestation of 25,000 mangrove saplings for this project and for their upcoming projects also, PP planned to create state of art Mangrove Park with the help of Maharashtra State Forest Department. PP applied and received approval from Government of Maharashtra for Tri-Partite agreement for mangrove plantation between Tata Power, M S Swaminathan Research Foundation, Chennai and State Forest Department.

(v) As per this tri-partite agreement, the degraded area of 25 ha of Survey No. 93,99 and 100 of Sarsole Village (Navi Mumbai), Dist. Thane will be covered with plantation of mangroves in three phases.

(vi) This activity will cover survival, assessment and re-plantation of mangroves.

(vii) As per the tri-partite agreement, mangrove plantation work has been commenced and in Phases. The plantation of about 1,00,000 - mangrove saplings is under progress. The total plantation will be carried out in 3 phases where the area of 25 ha will be covered with plantation of more than 3, 00,000 mangroves saplings.

(viii) The species of mangroves proposed to be planted at this location are Avicennia marine, Avicennia officinalis, Rhizophora mucronata, Cereops tagal, Sonneratia apatela and Sonneratia alba as suggested by BNHS.

(ix) Presently, activities like bio-physical survey, awareness development, orientation to Forest Dept. staff and nursery development have been completed.


(x) Post monsoon season of 2015, plantation on 5 ha of degraded land (about 1 lakhs mangrove saplings) will be carried out.

(xi) This mangrove plantation project will cover the requirement of compliance to the condition of compensatory afforestation as per CRZ Clearance for Tata Power's various projects like 220 kV Trombay-Backbay & Trombay-Salsette transmission lines, 400 kV Multicircuit transmission lines, 220 kV Kalwa-Salsette transmission line and future project also.

5. The EAC in its meeting held on 29-31 July, 2015, has recommended for amendment in CRZ Clearance dated 19th May, 2011 (item no. 4 on page 2). Based on the recommendations of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords amendment in CRZ Clearance dated 19th May, 2011 under the provisions of the CRZ Notification, 2011 and amendments thereto and circulars issued thereon, as under:-

"Mangrove Plantation will be carried out in an area of 13.8 ha of identified land at village Sarsole, Navi Mumbai, District Thane".

6. All other conditions stipulated in the CRZ Clearance vide letter No.11-107/2010-IA-III dated 19th May, 2011, shall remain unchanged.


3/10/2016
(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 Chairman, Maharashtra Coastal Zone Management Authority, Room No.217 (Annexe), Mantralaya, Mumbai -32
- 4) The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Points, 3rd & 4th floor, Opp. Cine Planet, Sion Circle, Sion (E), Mumbai-22
- 5) Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, Nagpur - 1
- 6) Guard File.
- 7) Monitoring Cell.

SK
3/10/2016
(S.K. Srivastava)
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