



Powering Tamil Nadu's Progress...

From
Er.R.Kamaraj, B.E (Hons)., M.E.,
Chief Engineer/Projects,
TANGEDCO (A Successor entity of TNEB),
5th Floor Western Wing, NPKRR Maaligai,
144, Anna Salai,
Chennai – 600002

To
The Director IA (I),
Member Secretary, EAC (Thermal committee),
Indira Paryavaran Bhawan,
Third Floor, Vayu Wing,
MoEF&CC, Govt. of India,
New Delhi – 110003

Kind attention: Dr. S. Kerketta

Lr.No.SE/C/P&E/EE/EMC/AEE/C/F.ETPS Repl.TPP/D. 62/18, dt. 23.02.2018.

Sir,

Sub: TANGEDCO-Setting up of ETPS Replacement TPP (1X660 MW) under State Sector- Environmental Clearance – Additional documents sought for – Submitted – Reg.

- Ref: 1. File No. J-13012/07/2014-IA-I(T) of ETPS Replacement TPP (1X660 MW)
2. E-mail received from Member Secretary / Thermal Committee seeking additional documents on 23.01.2018.

Adverting to the above, it is informed that the additional documents sought for by the Member / Secretary / Thermal Committee, pertaining to show cause notice issued to ETPS Expansion TPP (Annex) in respect of Compliance of conditions of Environmental clearance and CRZ Clearance issued for the ETPS Expansion (Annex) TPP 1 x 660 MW.

Necessary reply for the above show cause notice has been already submitted to MoEF / New Delhi and the copy of above reply is uploaded as additional document for the proposed ETPS Replacement TPP (1X660 MW) for which the cooling water and coal drawal are proposed to be drawn from the facilities of ETPS Expansion (Annex) already under construction within the ETPS complex.

The hard copies of the uploaded documents are submitted herewith for kind consideration to issue Environmental clearance for the proposed ETPS Replacement TPP (1x660 MW).

Enclosure:

- 1 Reply to the show cause notice issued for the ETPS Expansion (annex) TPP
1x660 MW on 05.02.2018
- 2 Letter addressed to Director/State CRZMA/Recommendation of DCRZMA
dt. 08.02.2018

Yours faithfully,

[Handwritten Signature]
22/02/18

Chief Engineer/Projects 2/2

Encl: As above

Chief Engineer / Projects
TANGEDCO
144, Anna Salai, Chennai - 600 002



POWERING TAMILNADU'S PROGRESS...

From
Er.R.Kamaraj, B.E(Hons.), M.E.,
Chief Engineer/Projects,
5th floor, Western wing, NPKRR
Maaligai, 144, Anna Salai,
Chennai-600002
cepr@tnebn.net / Fax: 2852 0878

To
Member Secretary,
Tamil Nadu Coastal Zone Management Authority
& Director of Environment
Department of Environment,
No.1, Jeenis Road, Panagal Building, Ground floor,
Saidapet, Chennai -600015.

Lr.No.CE/P/SE/C/P&E/EE/C/EMC II/F.ETPS Expn.TPP/D. 44 / 2018, dt. 8 .02.2018

Sir,

Sub: ETPS Expansion TPP 1x660 MW – Show cause notice issued by MoEF&CC with regard to the temporary road constructed across water body to construct conveyor structures – Reg.

Ref: MoEF&CC letter J-13012/07/2014-IA.1(T) pt. Govt of India, MoEF & CC addressed to Member Secretary/TNCZMA, dated 22.01.2018

Adverting to the letter cited above, it is informed that necessary CRZ and Environmental clearance for the proposed ETPS Expansion unit (1x660 MW) and its foreshore facilities viz., Pipe coal conveyor, Cooling water intake and outfall pipes have been obtained from MoEF&CC/GOI after obtaining all requisite recommendations from all competent authorities as per the EIA notification 2006.

It is informed that Scientist 'D' / Regional office (South East) / MoEF&CC, has visited the site on 16.10.2017 and submitted a report to MoEF&CC/New Delhi stating the following as violations done by TANGEDCO.

S.N	Observations of Scientists 'D'	Reply by TANGEDCO
1	TANGEDCO Constructed approach road no.1 at North Buckingham canal for construction of coal conveyor system without obtaining the prior approval of MoEF&CC and TNCZMA. However, the said approach road has been reportedly removed during October 2016 based on the directions of District Collector, Thiruvallur Dist. And the same does not exist at the site as observed during the site visit.	In this regard it is reiterated that as per the clause 3(2) (iii) of CRZ notification 1991 and Clause 4 (ii) (f) of CRZ notifications 2011, the following activities proposed in CRZ area are permitted and it requires prior clearance from MoEF&CC/New Delhi. <ol style="list-style-type: none">1. Coal conveying facilities from Port to the power plant across CRZ area2. Cooling water pipelines from Sea to the power plant which crosses CRZ area

2	TANGEDCO constructed approach road no.2 and blocked the back waters of Ennore Creek beneath the Ennore bridge by establishing 350m lengthx6 m width for construction of coal conveyor system without obtaining prior approval MoEF&CC and TNCZMA.	Necessary demarcation of the proposed power plant site and foreshore facilities viz., Pipe coal conveyor and cooling water lines have been carried out through M/s Institute of Remote sensing, Anna university, an approved agency of MOEF&CC/New Delhi.
3	Approach road no.2 clearly obstructs the natural flow of water within the Ennore Creek which may perhaps cause flood vulnerability in that area. Livelihood of communities in the surrounding Ennore Creek directly depend on fishing activity may also be affected.	Necessary application for CRZ clearance was filed with DEE/TNPCB /Chennai, Convener of District CZMA for recommendation to State CZMA. DCZMA under the chairmanship of Additional Director/Environment/GoTN, has recommended the said foreshore facilities for execution during the meeting held on 22.08.2008.
4	Ennore creek wherein the approach road no.2 has been laid falls within the CRZ area as per CZMP for the state of Tamil Nadu as informed by the representative of TNPCB during the visit. In view of this CRZ classification of this area and status of the land may be sought from the competent agencies. If CRZ violations taken place appropriate action may be taken by the competent authorities concerned.	TNCZMA also recommended the project to NCZMA for approval vide letter dated 21.10.2008 after obtaining the recommendations of State CRZ committee under the chairmanship of Secretary/Environment/GoTN, held on 28.08.2008. Based on the above recommendations only, MoEF & CC / New Delhi have issued CRZ clearance for the above foreshore facilities vide letter dated 23.12.2008. After conducting a public hearing meeting under the Chairmanship of District Collector / Thiruvallur, necessary minutes of meeting was submitted to MoEF & CC / New Delhi, by Member Secretary / TNPCB. After detailed deliberations during the EAC meeting only, MoEF & CC / New Delhi has issued the Environmental clearance to the captioned Thermal Power Project.

Further it is informed that the enabling work of forming a temporary approach road to carry out the erection of piles to erect the trestles to carry the Pipe conveyor from NCTPS to ETPS is a part and parcel of main work of erection of pipe conveyors across Ennore creek.

The formation of temporary approach road was informed to PWD/GoTN and the ROW permission has been accorded vide letter dated 21.05.2008 and subsequently renewed vide letter dated 01.07.2015 by PWD/GOTN.

Necessary lease agreement no. 01 (A) 2016-17 dated 05.05.2016, was executed with PWD for a period of three years considering the construction time required for the erection of pipe coal conveyor across Ennore Creek.

It is also informed that the during the visit of Sub-Committee/MoEF & CC on 13.10.2017, headed by EAC/Thermal committee Chairman Dr.Navin Chandra, accompanied by Dr. Kerketta, Director/Thermal Committee/MoEF & CC, the same approach road was inspected by them and their report placed before the EAC/MoEF & CC meeting held on 26.10.2017.

The EAC has agreed to the report of the Sub-Committee that the temporary approach road formed for the erection of Pipe conveyor will be removed after the erection of pipe conveyor and the same was incorporated in the Minutes of Meeting.

Subsequently, Scientist 'D' / Regional MoEF & CC has visited the same site on 16.10.2017 and offered his remarks as violation of TANGEDCO in CRZ area.

It is to be mentioned that even the pipe conveyor of Vallur Thermal power plant is also running nearby over the concrete trestles from NCTPS to Vallur Thermal power plant constructed during 2012 and a highways road bridge is also constructed across Ennore creek adopting the same methodology.

The proposed alignment of ETPS pipe conveyor is adjacent to the same and the formation of temporary approach road is being followed for erection of pipe conveyor across creek. It is a proven method for erection of piles for constructing any structures across water bodies including creek.

Also the total width of the creek is around 1000 meters and the length of temporary approach road is only 220 m in the water body out of 350 meters total length with a width of 6 meters. Sufficient number of hume pipes have been used to form the above temporary road to ensure free flow of water. This has been approved by PWD after taking in to considerations of flood level during monsoon period.

However, considering the onset of North East monsoon and as directed by the District Administration, the above temporary approach road in the water body has been removed and the same was also confirmed by the EE, PWD, WRD, Chennai-5 vide Ir no. DB/JDO.4/F.402/General/2017, dt.21.11.17.

Necessary compliance report of CRZ clearance has already been furnished to Regional office / MoEFF & CC, Chennai by Chief Engineer/Civil/ETPS Expansion TPP, vide letter CE/C/ETPS EP & NCSTPP Stage-III/SE/C/F/MOEF/D.215/17 dt.01.12.2017. A copy of the compliance of CRZ clearance is furnished herewith for your kind information.

Considering the above facts, it is requested that the project may kindly be allowed to be executed without any interruption, to avoid loss of public exchequer of Tamil Nadu and to ensure uninterrupted power supply to the state of Tamil Nadu.

[Handwritten signature]
08/10/2018

(R. Kamaraj)

Chief Engineer/Projects

[Handwritten initials]
8/2/18
A. G. G. G.

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Encl:

1. CRZ clearance issued by MoEF & CC vide letter dated 23.12.2008 and the extension of the same vide letter dated 31.03.2014.
2. Recommendations of State CZMA dated 10.09.2008
3. Recommendations of Secretary/Environment / GOTN dt 21.10.2008
4. PWD permission dated.21.05.2008
5. Compliance report of CRZ clearance

[Handwritten note]
Deposited on
8/2/18
E. G. G.

DESPATCHED	
DATE	8.2.2018
By R.P.A.D.	<i>[Signature]</i>
By Spl. Messenger	
By Speed Post	
By Ord. Post	

**CRZ clearance issued for setting up of Pipe coal conveyor and Cooling water/Colant water pipelines for the proposed
ETPS Annex(Expansion) TPP(1x660 MW)**

Subject: Setting up of coal conveyor (pipe conveyor) and intake and outfall waterlines for the proposed Ennore Thermal Power Project Annexe by Tamil Nadu Electricity Board(TNEB)

Reference: MoEF&CC letter no. 11-100/2008-IA.III dated 23/12/2008 and 31/03/2014

A. Specific conditions

S. N	Conditions	Compliance Status
ii.	It shall be ensured that during handling, transportation, storage there shall be no dust generation/spillages. Water spray systems shall be installed at appropriate locations where there could be possibility of fugitive dust emission.	It is being complied.

B. General conditions

S.No.	Conditions	Compliance Status
i.	A separate Environment Management Cell with suitably qualified staff to carry put various environment related functions shall be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.	Arrangement is being made to form a separate EM cell.
iii.	In case of deviation or alteration in the project including the implementing agencies, a fresh reference shall be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponent shall be responsible for implementing the suggested safeguard measures.	Whenever deviation (or) alteration will arise it will be submitted to the Ministry.
vi.	A copy of the clearance letter shall be marked to the concerned Panchayat / local NGO, if any, from whom any suggestion/ representation has been received while processing the proposal.	Yes it was complied.

S.No.	Conditions	Compliance Status
viii.	<p>The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. The advertisement shall be made within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Bangalore.</p>	<p>Necessary advertisement has been made in Dhinathanthi, dated 03.04.2009, intimating the issue of CRZ clearance for the above foreshore facilities viz. coal pipe conveyor, cooling water intake and outfall line.</p> <p>The same has already been submitted to Regional Office of the MoEF & CC, Bangalore on vide Lr.No.SE/C/P&E/EE/EMC/ AEE/C/F.ETPS Annexe/D.838/ 09, dt.17.06.2009.</p>
ix.	<p>The project proponents shall inform the Bangalore Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.</p>	<p>Noted; Date of start of land development for the subject project and the commencement of the project has already been informed to the Regional Office, MOEF, Bangalore vide letter ref. no. D.103 dt.14.11.13 itself.</p>
5.	<p>The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 as amended subsequently and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time.</p> <p>The project proponents shall also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Tamil Nadu State and the Supreme Court's order dated 18th April, 1996 in the Writ petition No.664 of 1993 to the extent the same are applicable to this proposal.</p>	<p>The proposed power project is away from the CRZ boundary as demarcated by the Institute of Remote Sensing, Anna University.</p> <p><u>However following are informed:</u></p> <p>Based on the recommendations of the State Coastal Zone Management Authority of Tamil Nadu, vide Ir No. 2129/EC 3/2008-1, dated. 21.10.2008, the MoEF has issued the CRZ clearance for the foreshore facilities, viz., Coal Pipe Conveyor and Cooling Water Intake and Outfall structures, which are permitted activities as per the CRZ Regulations, 1991. The copies of the recommendations of SCZMA and CRZ clearance were already sent to the Regional office vide ref. (3).</p> <p>The coal pipe conveyor is proposed to transport coal from North Chennai Thermal Power Station to ETPS Annex (Expansion) TPP. Construction of coal pipe conveyor falls in the CRZ area. Total length</p>

S.No.	Conditions	Compliance Status
		<p>of the coal conveyor is 6127 m. Out of which, pipe coal conveyor of length 2900 m lies within the Ennore creek area. The main work of construction of trestles/pillars and foundation works (pile foundation) for the coal pipe conveyor involves temporary construction of approach roads to carry out the piling works in the creek. These are part and parcel of main work of erection of pipe conveyor.</p> <p>Necessary Right Of Way (ROW) permission has already been obtained from Chief Engineer/Water Resource Department, PWD, Govt. of Tamil Nadu vide Ir. No. T5(3)/7949/ 2008 /dated.21.05.2008 and the same was renewed vide Ir. No. T1/7949/2008 dt.01.07.2015 of the CE/WRD/Chennai Region/PWD, Chennai-5 and lease agreement was also executed vide L.A. no.01 (A) 6016-17, dt.05.05.2016.</p> <p>Hence CRZ clearance has been obtained from MoEF during 2008 itself for carrying out the pipe conveyor work in the creek and Buckingham canal, which is a permitted activity. Based on the above CRZ clearance only, MoEF & CC/New Delhi, has issued Environmental Clearance for the captioned ETPS Expansion TPP during 2009. Necessary extensions of the validity of CRZ and EC clearances have also been obtained till December 2018 and June 2019 respectively.</p> <p>To facilitate piling activity for the Coal Pipe Conveyor, a temporary approach road (no.2) for 220 m inside Ennore Creek and balance in land area (abutment of the bridge) totaling about 350 m was formed. The Ennore creek is approximately 1000 m wide in the location where the approach road has been formed and the length of the approach road is only 220 m out of this 1000m wide creek. Hume pipes are also provided at the base of the approach road to ensure free flow of water. PWD/GOTN has also given clearance for this approach road, only after ensuring that the construction of the temporary approach road will not block the free flow of water during the monsoon season.</p>

S.No.	Conditions	Compliance Status
		<p>The Sub-Committee of MoEF&CC/New Delhi, headed by Chairman, Expert Appraisal Committee, Thermal Projects visited the site on 13.10.2017 and agreed to the contention of TANGEDCO, in respect of approach road. After a detailed discussion, at the EAC meeting held at New Delhi on 26.10.2017, have issued the site visit report stating "Necessary permission has been obtained from the State PWD regarding temporary construction of the approach road for construction of proposed coal conveyor belt. Once the coal conveyor belt is completed, the temporary road should be decommissioned so that free flow be maintained in the creek.</p> <p>However, during the North East monsoon in the year 2017, as directed by the District Administration, the above temporary approach road in the water body has been removed and the same was also confirmed by the EE, PWD, WRD, Chennai-5 vide Ir no. DB/JDO.4/F.402/General/2017, dt.21.11.17.</p> <p>It is informed that the approach road is necessarily to be formed for carrying out Piling work for erection of Pipe conveyor and the same road will be removed after erection of pipe conveyor, as insisted in the PWD lease agreement.</p>

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SE/CPD
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6/2/18
(R. Kamaraj)
Chief Engineer/Projects
3/3



POWERING TAMILNADU'S PROGRESS...

From
Er.R.Kamaraj, B.E(Hons.), M.E.,
Chief Engineer/Projects,
5th floor, Western wing, NPKRR
Maaligai, 144, Anna Salai,
Chennai-600002
cepr@tnebnnet.org / Fax: 2852 0878

To
The Director (IA. I)
Ministry of Environment, Forests and Climate Change
3rd floor, Vayu Block,
Indra Paryavaran Bhawan,
Jor Bagh Road,
Aliganj, New Delhi - 110003

Lr.No.CE/P/SE/C/P&E/EE/C/EMC II/F.ETPS Expn.TPP/D.38 /2018, dt.05.02.2018

Sir,

Sub: ETPS Expansion TPP 1x660 MW – Show cause notice issued by MoEF&CC with regard to the temporary road constructed across water body to construct conveyor structures – Reg.

Ref: Show cause notice issued by MoEF&CC, vide ref: J-13Q12/07/2014-IA.1(T)pt. Govt of India, MoEF&CC dated 22.01.2017

Adverting to the above show cause notice, it is informed that necessary CRZ and Environmental clearance for the proposed ETPS Expansion unit (1x660 MW) and its foreshore facilities viz., Pipe coal conveyor, Cooling water intake and outfall pipes have been obtained from MoEF&CC/GOI after obtaining all requisite recommendations from all competent authorities as per the EIA notification 2006.

It is informed that Scientist 'D' / Regional office (South East) / MoEF&CC, has visited the site on 16.10.2017 and submitted a report to MoEF&CC/New Delhi stating the following as violations done by TANGEDCO.

S.N	Observations of Scientists 'D'	Reply by TANGEDCO
1	TANGEDCO Constructed approach road no.1 at North Buckingham canal for construction of coal conveyor system without obtaining the prior approval of MoEF&CC and TNCZMA. However, the said approach road has been reportedly removed during October 2016 based on the directions of District Collector, Thiruvallur Dist. And the same does not exist at the site as observed during the site visit.	In this regard it is reiterated that as per the clause 3(2) (iii) of CRZ notification 1991 and Clause 4 (ii) (f) of CRZ notifications 2011, the following activities proposed in CRZ area are permitted and it requires prior clearance from MoEF&CC/New Delhi. <ol style="list-style-type: none">Coal conveying facilities from Port to the power plant across CRZ area
2	TANGEDCO constructed approach road no.2 and blocked the back waters of Ennore Creek beneath the Ennore bridged by establishing 350m lengthx6 m	<ol style="list-style-type: none">Cooling water pipelines from Sea to the power plant which crosses CRZ area

	width for construction of coal conveyor system without obtaining prior approval MoEF&CC and TNCZMA.	Necessary demarcation of the proposed power plant site and foreshore facilities viz., Pipe coal conveyor and cooling water lines have been carried out through M/s Institute of Remote sensing, Anna university, an approved agency of MOEF&CC/New Delhi.
3	Approach road no.2 clearly obstructs the natural flow of water within the Ennore Creek which may perhaps cause flood vulnerability in that area. Livelihood of communities in the surrounding Ennore Creek directly depend on fishing activity may also be affected.	Necessary application for CRZ clearance was filed with DEE/TNPCB /Chennai, Convener of District CZMA for recommendation to State CZMA. DCZMA has recommended the said foreshore facilities for execution during the meeting held on 22.08.2008. TNCZMA also recommended the project to NCZMA for approval vide letter dated 21.10.2008 after obtaining the recommendations of State CRZ committee held on 28.08.2008.
4	Ennore creek wherein the approach road no.2 has been laid falls within the CRZ area as per CZMP for the state of Tamil Nadu as informed by the representative of TNPCB during the visit. In view of this CRZ classification of this area and status of the land may be sought from the competent agencies. If CRZ violations taken place appropriate action may be taken by the competent authorities concerned.	Based on the above recommendations only, MoEF&CC/New Delhi have issued CRZ clearance for the above foreshore facilities vide letter dated 23.12.2008. After conducting a public hearing meeting under the Chairmanship of District Collector/ Thiruvallur, necessary minutes of meeting was submitted to MoEF&CC/New Delhi, by Member Secretary/TNPCB. After detailed deliberations during the EAC meeting only, MoEF&CC/New Delhi has issued the Environmental clearance to the captioned Thermal Power Project.

Further it is informed that the enabling work of forming a temporary approach road to carry out the erection of piles to erect the trestles to carry the Pipe conveyor from NCTPS to ETPS is a part and parcel of main work of erection of pipe conveyors across Ennore creek.

The formation of temporary approach road was informed to PWD/GoTN and the ROW permission has been accorded vide letter dated 21.05.2008 and subsequently renewed vide letter dated 01.07.2015 by PWD/GOTN.

Necessary lease agreement no. 01 (A) 2016-17 dated 05.05.2016, was executed with PWD for a period of three years considering the construction time required for the erection of pipe coal conveyor across Ennore Creek.

It is also informed that the during the visit of Sub-Committee/MoEF&CC on 13.10.2017, headed by EAC/Thermal committee Chairman Dr.Navin Chandra, accompanied by Dr. Kerketta, Director/Thermal Committee/MoEF&CC, the same approach road was inspected by them and their report placed before the EAC/MoEF&CC meeting held on 26.10.2017.

The EAC has agreed to the report of the Sub-Committee that the temporary approach road formed for the erection of Pipe conveyor will be removed after the erection of pipe conveyor and the same was incorporated in the Minutes of Meeting.

Subsequently, Scientist 'D' / Regional MoEF&CC has visited the same site on 16.10.2017 and offered his remarks as violation of TANGEDCO in CRZ area.

It is to be mentioned that even the pipe conveyor of Vallur Thermal power plant is also running nearby over the concrete trestles from NCTPS to Vallur Thermal power plant constructed during 2012 and a highways road bridge is also constructed across Ennore creek adopting the same methodology.

The proposed alignment of ETPS pipe conveyor is adjacent to the same and the formation of temporary approach road is being followed for erection of pipe conveyor across creek. It is a proven method for erection of piles for constructing any structures across water bodies including creek.

Also the total width of the creek is around 1000 meters and the length of temporary approach road is only 220 m in the water body out of 350 meters total length with a width of 6 meters. Sufficient number of hume pipes have been used to form the above temporary road to ensure free flow of water. This has been approved by PWD after taking in to considerations of flood level during monsoon period.

However, considering the onset of North East monsoon and as directed by the District Administration, the above temporary approach road in the water body has been removed and the same was also confirmed by the EE, PWD, WRD, Chennai-5 vide Ir no. DB/JDO.4/F.402/General/2017, dt.21.11.17.


Considering the compliance of above conditions, it is requested to drop the above show cause notice to proceed with the execution of project.

It is submitted that all further correspondences with regarding ETPS Expansion (Annex) Thermal Power Project may kindly be addressed to Chief Engineer/Civil/ETPS Expansion TPP, Ennore, Chennai – 600057.



(R. Kamaraj)

Chief Engineer/Projects


Chief Engineer / Projects
TANGEDCO
Anna Salai, Chennai - 600 002

Copy submitted to

1. The Joint Secretary, CRZ Division, MoEF &CC, Indira Paryavaran Bhawan, New Delhi-110003.
2. The Member Secretary/EAC/CRZ Division/MoEF&CC, Indira Paryavaran Bhawan, New Delhi-110003.
3. The Director/Joint Director, Monitoring Cell, MoEF&CC, Indira Paryavaran Bhawan, New Delhi-110003.

4. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi – 110001
5. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K.Puram, New Delhi – 110066
6. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office complex, East Arjun Nagar, Delhi – 110032
7. The Additional Principal Chief Conservator of Forests (C), Regional office (SEZ), 1st and 2nd floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai – 34
8. The Principal Secretary to Govt., Environment & Forest Department, Govt. of Tamil Nadu, No.1, Jeenis Road, Panagal Building, Ground floor, Saidapet, Chennai – 600015
9. The Member Secretary, Tamil Nadu Coastal Zone Management Authority and Director of Environment, Department of Environment, No.1, Jeenis Road, Panagal Building, Ground floor, Saidapet, Chennai – 600015
10. The Member Secretary, Tamil Nadu Pollution Control Board, No.76, Mount Road, Mount Salai, Guindy, Chennai – 600032
11. The District Collector, Tiruvallur District, Govt. of Tamil nadu.

**Environmental clearance issued for setting up of proposed
ETPS Annex(Expansion) TPP(1x660 MW)**

Descriptive report on status of compliance to '20 conditions' by the Regional Office, MoEF & CC reported as not complied

Sub : 1x660MW Imported coal based super critical Ennore Thermal Power Station at Village Ernavor, Taluk Ambathur, District Thiruvallur, Tamil Nadu by M/s Tamil Nadu Generation and Distribution Corporation (TANGEDCO) [earlier M/s. TNEB]

- Ref: 1. MoEF&CC letter no. J-13011/62/2008-IA. II (T), dated 3/6/2009, 24/01/2013 and 18/09/2014.
2. Site visit report dated 01.11.2017 of the Regional Office, MoEF & CC.
3. Action taken report sent to the Regional Office, MoEF & CC vide Ir. CE/C/ETPS EP & NCSTPP Stage – III/SE/C/F/MOEF/D.215/17 dt.01.12.2017.

S. No.	Conditions	Compliance Status
ii.	Boundary of the proposed power project shall be outside the CRZ boundary. No activity shall be taken up except permissible activity with due clearance in the CRZ area.	The proposed power project is away from the CRZ boundary as demarcated by the Institute of Remote Sensing, Anna University. <u>However following are informed:</u> Based on the recommendations of the State Coastal Zone Management Authority of Tamil Nadu, vide Ir No. 2129/EC 3/2008-1, dated. 21.10.2008, the MoEF has issued the CRZ clearance for the foreshore facilities, viz., Coal Pipe Conveyor and Cooling Water Intake and Outfall structures, which are permitted activities as per the CRZ Regulations, 1991. The copies of the recommendations of SCZMA and CRZ clearance were already sent to the Regional office vide ref. (3). The coal pipe conveyor is proposed to transport coal from North Chennai Thermal Power Station to ETPS Annex (Expansion) TPP. Construction of coal pipe conveyor falls in the CRZ area. Total length of the coal conveyor is 6127 m. Out of which, pipe coal conveyor of length 2900 m lies within the Ennore

S. No.	Conditions	Compliance Status
		<p>creek area. The main work of construction of trestles/pillars and foundation works (pile foundation) for the coal pipe conveyor involves temporary construction of approach roads to carry out the piling works in the creek. These are part and parcel of main work of erection of pipe conveyor.</p> <p>Necessary Right Of Way (ROW) permission has already been obtained from Chief Engineer/Water Resource Department, PWD, Govt. of Tamil Nadu vide Ir. No. T5(3)/7949/ 2008 /dated.21.05.2008 and the same was renewed vide Ir. No. T1/7949/2008 dt.01.07.2015 of the CE/WRD/Chennai Region/PWD, Chennai-5 and lease agreement was also executed vide L.A. no.01 (A) 6016-17, dt.05.05.2016.</p> <p>Hence CRZ clearance has been obtained from MoEF during 2008 itself for carrying out the pipe conveyor work in the creek and Buckingham canal, which is a permitted activity. Based on the above CRZ clearance only, MoEF & CC/New Delhi, has issued Environmental Clearance for the captioned ETPS Expansion TPP during 2009. Necessary extensions of the validity of CRZ and EC clearances have also been obtained till December 2018 and June 2019 respectively.</p> <p>To facilitate piling activity for the Coal Pipe Conveyor, a temporary approach road (no.2) for 220 m inside Ennore Creek and balance in land area (abutment of the bridge) totaling about 350 m was formed. The Ennore creek is approximately 1000 m wide in the location where the approach road has been formed and the length of the approach road is only 220 m out of this 1000m wide creek. Hume pipes are also provided at the base of the approach road to ensure free flow of water. PWD/GOTN has also given clearance for this approach road, only after ensuring that the construction of the temporary approach road will not block the free flow of water during the monsoon season. The Sub-Committee of MoEF&CC/New Delhi, headed by Chairman, Expert Appraisal Committee, Thermal Projects visited the site on 13.10.2017 and</p>

S. No.	Conditions	Compliance Status
		<p>agreed to the contention of TANGEDCO, in respect of approach road. After a detailed discussion, at the EAC meeting held at New Delhi on 26.10.2017, have issued the site visit report stating "Necessary permission has been obtained from the State PWD regarding temporary construction of the approach road for construction of proposed coal conveyor belt. Once the coal conveyor belt is completed, the temporary road should be decommissioned so that free flow be maintained in the creek.</p> <p>However, during the North East monsoon in the year 2017, as directed by the District Administration, the above temporary approach road in the water body has been removed and the same was also confirmed by the EE, PWD, WRD, Chennai-5 vide Ir no. DB/JDO.4/F.402/General/2017, dt.21.11.17.</p> <p>It is informed that the approach road is necessarily to be formed for carrying out Piling work for erection of Pipe conveyor and the same road will be removed after erection of pipe conveyor, as insisted in the PWD lease agreement.</p>
xvii.	Regular monitoring of ground water in and around the ash pond area including heavy metals (Hg, Cr, As, Pb) shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry.	The project is under progress. After commissioning the unit for operation, this will be followed.
xxi.	Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc. shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non-noisy/less noisy areas.	Condition pertains to the operation phase of the project. Hence, will be taken up after commissioning.

S. No.	Conditions	Compliance Status
xxii.	Regular monitoring of ground level concentration of SO ₂ , NO _x , Hg, SPM and RSPM shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. The data shall also be put on the website of the company.	Condition pertains to the operation phase of the project. Hence, will be taken up after commissioning.
xxiv.	The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in .	Complied necessary advertisement has been made in <i>Malaimurasu</i> daily, dated 26.6.2009, for the 600 MW Environmental clearance. The same has already been submitted to Regional Office of the MoEF & CC, Bangalore on vide Lr.No.SE/C/P&E/EE/EMC/ AEE/C/F.ETPS Annexe/D.838/ 09, dt.17.06.2009. Further the revised Environmental clearance for 660 MW obtained has been advertised in <i>Makkalkural</i> Tamil daily dated 28.03.2013 and <i>Trinity Mirror</i> English daily on 28.03.2013. The copies of above advertisements have been already furnished to Regional office /MoEF/Chennai vide letter CE/C/ETPS EP & NCSTPP Stage – III/SE/C/F/MOEF/D.215/17 dt.01.12.2017.
xxv.	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, received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Complied copy of the clearance has been sent to District Collector / Tiruvallur, Commissioner / Thiruvottiyur Municipality, Commissioner / Kathivakkam Municipality, vide TANGEDCO's letter dated 6.7.2009 itself. A copy of the Environmental Clearance was uploaded in the TNEB Website.
xxvi.	A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.	Arrangement is being made to form a separate EM cell at site.

S. No.	Conditions	Compliance Status
xxvii.	<p>The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored EC data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.</p> <p>The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (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.</p>	<p>Compliance of the environmental measures will be uploaded in our website (www.tangedco.gov.in) and will be submitted to the Regional office of MoEF, CPCB and SPCB.</p> <p>Will be complied during the operation of the plant.</p>
xxviii.	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e- mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.</p>	<p>Bi annual report on the status of the environmental measures will be submitted to the Regional Office, MoEF, CPCB and the TNPCB regularly.</p>
xxix.	<p>Regional Office of the Ministry of Environment & Forests located at Bangalore will monitor the implementation of the stipulated conditions.</p> <p>A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.</p>	<p>A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan was submitted to the Regional Office of the MoEF & CC, Bangalore on vide Lr.No.SE/C/P&E/EE/EMC/AEE/C/F.ETPS Annexe/D.838/ 09, dt.17.06.2009.</p> <p>Disaster Management Plan (DMP) is a part of EIA report, which has already been furnished to Bangalore office.</p>
	<p>Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis.</p>	<p>It will be followed.</p>

S. No.	Conditions	Compliance Status
	Criteria pollutants levels (Stack & ambient levels of NO _x) will be displayed at the main gate of the power plant.	Will be complied during the operation of the plant.
xxxii.	The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work and commissioning of plant.	Will be furnished after completion of project.
xxxiv.	Regular monitoring of heavy metal contents in and around existing ash pond shall be carried out and records maintained. In case heavy metals are detected in ground water quality, immediate remedial measures (including decontamination) shall be taken up and reported to the R.O of the Ministry.	The project is under progress. Until the power generation is started no ash will be generated. The existing ash dyke belongs to the decommissioned ETPS. However study conducted by Anna University during 2015 reveals that there is no heavy metals in the water samples collected in surface water and ground water around the existing ETPS ash dyke. The copy of report has already been furnished to the Regional Office, Chennai vide letter No.CE/C/ETPS EP & NCSTPP Stage – III/SE/C/F/MOEF/D.215/17 dt.01.12.2017
xxxv.	Criteria pollutants levels including NO _x , RSPM (PM10 & PM2.5), SO _x (from stack & ambient air) Shall be regularly monitored and results displayed in your website and also at the main gate of the power plant.	Will be complied during the operation of the plant. After commissioning of the plant, it will be complied.
xxxvi.	Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within six months.	There is no expansion of the project in this complex except replacement of existing ETPS 450 MW with 1x660 MW Super critical unit for which obtaining Environmental Clearance is under process.
xl.	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.	As stated in Sl.No.(ii) above

S. No.	Conditions	Compliance Status
xlvi.	An Environment Cell comprising of at least one expert in environmental science/ engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/ mitigation measures.	Arrangement is being made to form a separate EM cell at site.
xlvii.	The environment statement for each financial year ending 31 st 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 environmental clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.	Condition pertains to the operation phase of the project. Will be complied after commissioning of the plant.
6.	In case of any deviation or alteration in the project proposed including coal transportation system from those submitted to this ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the Condition (s) imposed and to add additional environmental protection measures required, if any.	Not applicable.

**CRZ clearance issued for setting up of Pipe coal conveyor and Cooling water/Colant water pipielines for the proposed
ETPS Annex(Expansion) TPP(1x660 MW)**

Subject: Setting up of coal conveyor (pipe conveyor) and intake and outfall waterlines for the proposed Ennore Thermal Power Project
Annexe by Tamil Nadu Electricity Board(TNEB)
Reference: MoEF&CC letter no. 11-100/2008-IA.III dated 23/12/2008 and31/03/2014

A. Specific conditions

S. No.	Conditions	Compliance Status
ii.	It shall be ensured that during handling, transportation, storage there shall be no dust generation/spillages. Water spray systems shall be installed at appropriate locations where there could be possibility of fugitive dust emission.	It is being complied.

B. General conditions

S.No.	Conditions	Compliance Status
i.	A separate Environment Management Cell with suitably qualified staff to carry put various environment related functions shall be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.	Arrangement is being made to form a separate EM cell.
iii.	In case of deviation or alteration in the project including the implementing agencies, a fresh reference shall be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponent shall be responsible for implementing the suggested safeguard measures.	Whenever deviation (or) alteration will arise it will be submitted to the Ministry.
vi.	A copy of the clearance letter shall be marked to the concerned Panchayat / local NGO, if any, from whom any suggestion/ representation has been received while processing the proposal.	Yes it was complied.

S.No.	Conditions	Compliance Status
viii.	<p>The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. The advertisement shall be made within 7 days from the date of issue of the clearance letter and a copy of the same shall be forwarded to the Regional Office of this Ministry at Bangalore.</p>	<p>Necessary advertisement has been made in Dhinathanthi, dated 03.04.2009, intimating the issue of CRZ clearance for the above foreshore facilities viz. coal pipe conveyor, cooling water intake and outfall line.</p> <p>The same has already been submitted to Regional Office of the MoEF & CC, Bangalore on vide Lr.No.SE/C/P&E/EE/EMC/ AEE/C/F.ETPS Annexe/D.838/ 09, dt.17.06.2009.</p>
ix.	<p>The project proponents shall inform the Bangalore Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.</p>	<p>Noted; Date of start of land development for the subject project and the commencement of the project has already been informed to the Regional Office, MOEF, Bangalore vide letter ref. no. D.103 dt.14.11.13 itself.</p>
5.	<p>The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 as amended subsequently and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time.</p> <p>The project proponents shall also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Tamil Nadu State and the Supreme Court's order dated 18th April, 1996 in the Writ petition No.664 of 1993 to the extent the same are applicable to this proposal.</p>	<p>The proposed power project is away from the CRZ boundary as demarcated by the Institute of Remote Sensing, Anna University.</p> <p><u>However following are informed:</u></p> <p>Based on the recommendations of the State Coastal Zone Management Authority of Tamil Nadu, vide Ir No. 2129/EC 3/2008-1, dated. 21.10.2008, the MoEF has issued the CRZ clearance for the foreshore facilities, viz., Coal Pipe Conveyor and Cooling Water Intake and Outfall structures, which are permitted activities as per the CRZ Regulations, 1991. The copies of the recommendations of SCZMA and CRZ clearance were already sent to the Regional office vide ref. (3).</p> <p>The coal pipe conveyor is proposed to transport coal from North Chennai Thermal Power Station to ETPS Annex (Expansion) TPP. Construction of coal pipe conveyor falls in the CRZ area. Total length</p>

S.No.	Conditions	Compliance Status
		<p>of the coal conveyor is 6127 m. Out of which, pipe coal conveyor of length 2900 m lies within the Ennore creek area. The main work of construction of trestles/pillars and foundation works (pile foundation) for the coal pipe conveyor involves temporary construction of approach roads to carry out the piling works in the creek. These are part and parcel of main work of erection of pipe conveyor.</p> <p>Necessary Right Of Way (ROW) permission has already been obtained from Chief Engineer/Water Resource Department, PWD, Govt. of Tamil Nadu vide Ir. No. T5(3)/7949/ 2008 /dated.21.05.2008 and the same was renewed vide Ir. No. T1/7949/2008 dt.01.07.2015 of the CE/WRD/Chennai Region/PWD, Chennai-5 and lease agreement was also executed vide L.A. no.01 (A) 6016-17, dt.05.05.2016.</p> <p>Hence CRZ clearance has been obtained from MoEF during 2008 itself for carrying out the pipe conveyor work in the creek and Buckingham canal, which is a permitted activity. Based on the above CRZ clearance only, MoEF & CC/New Delhi, has issued Environmental Clearance for the captioned ETPS Expansion TPP during 2009. Necessary extensions of the validity of CRZ and EC clearances have also been obtained till December 2018 and June 2019 respectively.</p> <p>To facilitate piling activity for the Coal Pipe Conveyor, a temporary approach road (no.2) for 220 m inside Ennore Creek and balance in land area (abutment of the bridge) totaling about 350 m was formed. The Ennore creek is approximately 1000 m wide in the location where the approach road has been formed and the length of the approach road is only 220 m out of this 1000m wide creek. Hume pipes are also provided at the base of the approach road to ensure free flow of water. PWD/GOTN has also given clearance for this approach road, only after ensuring that the construction of the temporary approach road will not block the free flow of water during the monsoon season.</p>

S.No.	Conditions	Compliance Status
		<p>The Sub-Committee of MoEF&CC/New Delhi, headed by Chairman, Expert Appraisal Committee, Thermal Projects visited the site on 13.10.2017 and agreed to the contention of TANGEDCO, in respect of approach road. After a detailed discussion, at the EAC meeting held at New Delhi on 26.10.2017, have issued the site visit report stating "Necessary permission has been obtained from the State PWD regarding temporary construction of the approach road for construction of proposed coal conveyor belt. Once the coal conveyor belt is completed, the temporary road should be decommissioned so that free flow be maintained in the creek.</p> <p>However, during the North East monsoon in the year 2017, as directed by the District Administration, the above temporary approach road in the water body has been removed and the same was also confirmed by the EE, PWD, WRD, Chennai-5 vide Ir no. DB/JDO.4/F.402/General/2017, dt.21.11.17.</p> <p>It is informed that the approach road is necessarily to be formed for carrying out Piling work for erection of Pipe conveyor and the same road will be removed after erection of pipe conveyor, as insisted in the PWD lease agreement.</p>

05/02/18

(R. Kamaraj)

Chief Engineer/Projects

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TANGEDCO

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