

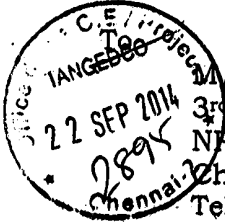


J-13011/62/2008-IA.II (T)  
Government of India  
Ministry of Environment, Forests and Climate Change

3<sup>rd</sup> Floor, 2019 Block,  
Indira Paryavaran Bhawan, Jor Bagh Road,  
Aliganj, New Delhi-110003

002287

Dated: 18<sup>th</sup> September, 2014.



M/s TANGEDCO (Tamil Nadu Electricity Board),  
3<sup>rd</sup> Floor, Eastern Wing,  
NPKRR Maaligai, 144, Anna Salai,  
Chennai- 600002.  
Tel. No. 044-28521993

SE/E/T&H
SE/C/P&E
SE/I/TTP
22.9.2014 CET/PROJECTS

**Sub: 1x660 MW Ennore Thermal Power Station at Village Ernavur, Taluk Ambathur, Distt. Thiruvallur, in Tamil Nadu by M/s TANGEDCO (earlier M/s TNEB) - reg. Extension of Validity of EC.**

Sir,

This has reference to your letters dated 21.02.2014 and 08.07.2014 on the above subject. It is noted that EC was accorded for the above project (600 MW) on 03.06.2009 and subsequent amendment dated 24.01.2013 for change in project configuration from 600 MW Subcritical to 660 MW Supercritical.

2. The matter was placed before the EAC (Thermal Power) in its 16<sup>th</sup> Meeting held during 1<sup>st</sup> and 2<sup>nd</sup> July, 2014. In acceptance of the recommendation of the EAC and in view of the information/clarification furnished by you with respect to the implementation of the above mentioned power project, the validity of the EC issued by this Ministry's letter of even no. dated 03.06.2009 and amendment dated 24.01.2013 is extended for a period of five years i.e. till 02.06.2019 to start the production operations by the power plant.

3. Further, the following conditions are stipulated in addition to the conditions of the EC dated 03.06.2009 and its amendment dated 24.01.2013.

- (xxxvi) Vision document specifying prospective plan for the site shall be formulated and submitted to the Regional Office of the Ministry within **six months**.
- (xxxvii) Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.
- (xxxviii) Mercury emissions from stack shall also be monitored on periodic basis.
- (xxxix) Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land.
- (xl) No ground water shall be extracted for use in operation of the power plant even in lean season. 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.
- (xli) Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In


case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.

- (xlii) Green belt shall also be developed around the Ash Pond over and above the Green Belt around the plant boundary.
- (xliii) A common **Green Endowment Fund** shall be created and the interest earned out of it shall be used for the development and management of green cover of the area.
- (xliv) CSR schemes identified based on Public Hearing issues and need based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programmes.
- (xlv) For proper and periodic monitoring of CSR activities, a CSR committee or a Social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.
- (xlvi) An Environmental 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.
- (xlvii) The environment 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
- (xlviii) The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.

4. All other conditions of this Ministry's letter of even no. dated 03.06.2009 and its amendment dated 24.01.2013 shall remain the same.

5. This issues with the approval of the Competent Authority.

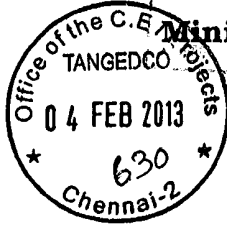
Yours faithfully,

  
(Dr. Saroj)  
Scientist 'F'

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary (Environment), Environment Department, Government of Tamil Nadu.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Tamil Nadu Pollution Control Board, No. 76, Mount Road, Mount Salai, Guindy, Chennai - 600 032
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
6. The Chief Conservator of Forests, Regional Office (SZ), Kendriya Sadan, 4<sup>th</sup> Floor E&F Wings 17<sup>th</sup> Main Road, 1 Block, Koranmangala, Bangalore -560 034.
7. The District Collector, Thiruvallur District, Govt. of Tamil Nadu.
8. Guard file.

(Dr. Saroj)  
Scientist 'F'



மேற்பார்வை பொறியாளர்  
பொதுவியல் / திட்டங்கள் & கற்றல்/புழை  
தமிழ்நாடு மின்சாரத்துறை மற்றும்  
பரிசீலனைக்கழகம்

J-13011/60/2008-IA.II (T)  
Feb 2013  
Government of India  
Ministry of Environment & Forests

SE/E/T&H
SE/C/P&E
SE/C/TP
CE/PROJECTS

Ph:011-2436 4067

Paryavaran Bhavan, C.G.O. Complex,  
Lodi Road, New Delhi -110003.

Dated: January 24, 2013.

EE/M

000298

**OFFICE ORDER**

**Sub: Change in configuration from 1x600 MW to 1x660 MW change in source of fuel for Ennore Thermal Power Station at village Ernavur, Taluk Ambathur, District Thiruvallur, in Tamil Nadu - reg.**

Handwritten signature and stamp: SE/C/P & E

Sir,

This has reference to your letter dated 27.02.2012 requesting of change in unit configuration from 1x600 to 1x660 MW and change in source of fuel for Ennore Thermal Power Station at village Ernavur, Taluk Ambathur, District Thiruvallur, in Tamil Nadu.

2. The matter has been examined. Your request was placed before the Expert Appraisal Committee (Thermal Power) in its 56<sup>th</sup> Meeting held during September 3-4, 2012. It is hereby now informed that in acceptance of the recommendation of the Expert Appraisal Committee (Thermal) the following changes as mentioned under shall be made in the Ministry's letter of even no. dated 03.06.2009.

a) In the subject matter the figure and words read as "1x600 MW Ennore Thermal Power Station" shall be replaced by the following:

"1x660 MW Imported Coal Based Super-critical Ennore Thermal Power Station".

b) At para no.2 second line of aforesaid letter, the figure and words read as "600 MW" shall be substituted by "660 MW".

c) At para no.2 the sentence read as "It is noted that the imported and indigenous coal will be used in the ration of 30:70. Total coal requirement is estimated as 2.46 MTPA, indigenous coal 1.96 MTPA will be sourced from Indonesia", shall be now substituted as follows:

"100% imported coal from Indonesia supplied by MMTC (A Govt. of India Undertaking) will be used for operation of the 660 MW unit, till domestic coal from Mandaniki Coal Block is available". The imported coal will have ash and sulphur contents of imported coal will be 8% and 0.6% respectively".

~~EMO~~

d) Under para no.3, after condition no. (xxxii) , the following conditions shall be now added:

(xxxiii) A long term study of radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.

(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.

(xxxv) Criteria pollutants levels including NO<sub>x</sub>, RSPM (PM<sub>10</sub> & PM<sub>2.5</sub>), SO<sub>x</sub> (from stack & ambient air) shall be regularly monitored and results displayed in your website and also at the main gate of the power plant.

3. All other conditions mentioned in this Ministry's aforesaid letter of even no. 03.06.2009 shall remain the same.

This issues with the approval of the Competent Authority.

Yours faithfully,

  
**(W Bharat Singh)**  
**Deputy Director**

M/s TANGEDCO,  
5<sup>th</sup> Floor Western Wing, NPKRR Maligai,  
144, Anna Salai, Chennai- 600 002.

Copy to:

1. The Secretary (Environment), Environment Department, Government of Tamil Nadu.
2. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
3. The Chairman, Tamil Nadu State Pollution Control Board, No. 76, Mount Road, Mount Salai, Guindy, Chennai - 600 032
4. The Chief Conservator of Forests, Regional Office (SZ), Kendriya Sadan, 4<sup>th</sup> Floor E&F Wings 17<sup>th</sup> Main Road, 1 Block, Koranmangala, Bangalore -560 034.
5. The District Collector, Thiruvallur District, Govt. of Tamil Nadu.
6. Guard file.

  
**(W Bharat Singh)**  
**Deputy Director**

(53)

FF/EMC

*[Handwritten Signature]*

BY SPEED POST

No. J 13011/62/2008 -IA.II(T)  
Government of India  
Ministry of Environment & Forests

Paryavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi-110 003

Dated: 3<sup>rd</sup> June, 2009

To

M/s Tamil Nadu Electricity Board  
NPKRR Maaligai, 5<sup>th</sup> Floor Western Wing  
144, Anna Salai, Chennai – 600 002

**Sub: 1x600 MW Ennore Thermal Power Station at village Ernavur, Taluk Ambathur, District Thiruvallur, Tamil Nadu by M/s TNEB - Environmental clearance regarding**

Sir,

The undersigned is directed to refer to your communication no. SE/C/P&E/EE/EMC/AEE/C/F,ETPS Annexe/D.(073/08, dated 25.11.2008 regarding the subject mentioned above. Subsequent information furnished vide letters dt. 19.3.2009, 15.4.2009 and 18.4.2009 have also been considered.

2. It is noted that the proposal is for grant of environmental clearance for setting up of a 600 MW thermal power project as an expansion unit at Ennore where 450 MW capacity is existing. The land requirement for the project is 84 acres, which is available within the existing plant. No additional land will be acquired for the project. Cooling water will be obtained from sea. The sweet water requirement will be met from Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB). It is noted that the imported and indigenous coal will be used in the ratio of 30:70. Total coal requirement is estimated as 2.46 MTPA, indigenous coal 1.96 MTPA will be sourced from Mandakini B block, and imported coal of 0.5 MTPA will be sourced from Indonesia. The project and ash pond boundary are outside the CRZ boundary. Public hearing for this project was held on 22.10.2008. No National Park and Wildlife Sanctuary is located within 10 Km from project area. Total cost of the project is Rs. 3060.00 crores which includes Rs. 232.00 crores for environmental protection measures.

3. The proposal has been considered and Ministry of Environment & Forests hereby accords environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

- (i) No additional land in excess of 84 acres ha shall be acquired for any activity/ facility of this project.

- (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.
- (iii) Prior CRZ clearance for the activities/ facilities to be located in the CRZ area shall be obtained before start of the work on the project.
- (iv) Sulphur and ash contents in the indigenous coal to be used in the project shall not exceed 44.5% & 0.5 % and in imported coal 8% & 0.8 % respectively at any given time.
- (v) A single stack of 275 m height shall be provided with continuous online monitoring equipments for SO<sub>x</sub>, NO<sub>x</sub> and Particulate & Hg. Exit velocity of flue gases shall not be less than 22 m/sec.
- (vi) High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm<sup>3</sup>.
- (vii) Space provision shall be kept for retrofitting of FGD, if required at a later date.
- (viii) Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
- (ix) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from day one. Unutilized fly ash shall be disposed off in the ash pond in the form of High Concentration Slurry and the bottom ash in conventional slurry mode. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond.
- (x) Ash pond shall be lined with impervious lining. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.
- (xi) Recirculation type cooling system with Induced Draft Cooling Tower (IDCT) shall be provided and the effluents shall be treated as per the prescribed norms.
- (xii) The treated effluents conforming to the prescribed standards only shall be discharged. The temperature of the discharged effluents shall not exceed 5° C over and above the ambient water temperature of Creek water/ receiving water body. The temperature of the discharged water shall be monitored continuously and records maintained.
- (xiii) A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.

- (xiv) Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.
- (xv) Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Copy of these measures with full details along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Bangalore.
- (xvi) Storage facilities for auxiliary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the DMP. Sulphur content in the liquid fuel will not exceed 0.5%.
- (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.
- (xviii) A green belt of adequate width and density shall be developed around the plant periphery covering 1/3 of total area preferably with local species.
- (xix) Provision of Rs 3 crores as capital and Rs. 1 crores as recurring expenditure shall be earmarked for the activities to be taken up under CSR.
- (xx) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (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.
- (xxii) Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, 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.
- (xxiii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health



- care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- (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>.
- (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.
- (xxvi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxvii) 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, 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.
- (xxviii) The project proponent shall also submit six monthly reports on the status of 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.
- (xxix) Regional Office of the Ministry of Environment & Forests located at Bangalore will monitor the implementation of the stipulated conditions. 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. Project proponent will up-load the compliance status in their website and update the same from time to time at least six monthly basis. Criteria pollutants levels ( Stack & ambient levels of NO<sub>x</sub>) will be displayed at the main gate of the power plant.
- (xxx) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall

- be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
- (xxxi) 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 dates of start of land development work and commissioning of plant.
- (xxxii) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bangalore /the CPCB/the SPCB who would be monitoring the compliance of environmental status.

4. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. MOEF may impose additional environmental conditions or modify the existing ones, if necessary.

5. The environmental clearance accorded shall be valid for a period of 5 years to start operations by the power plant.

Approved 3.6.2009 →

Site Grading  
Foundation started  
laid on 27.2.2014

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.

7. The above stipulations would 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 rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.

8. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

  
(LALIT KAPUR)  
DIRECTOR

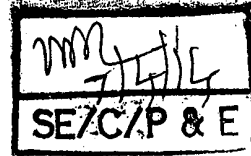
Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.

2. The Secretary, Department Environment & Forests Department, Secretariat Chennai- 600 009.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, No. 100, Mount Salai, Guindy, Chennai- 600 032 with a request to display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office for 30 days.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
6. The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (SZ), Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> Main Road, II-Block, Koramangla, Bangalore-560034.
7. The Director(EI), MOEF.
8. Guard file.
9. Monitoring file.

(LALIT KAPUR)  
DIRECTOR

Ref:EMA



F.No.11-100/2008-IA.III  
Government of India  
Ministry of Environment & Forests  
(IA.III Section)

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

Dated: March 31, 2014

To,  
Chief Engineer/C/Projects & Environment,  
M/s Tamil Nadu Electricity Board,  
3<sup>rd</sup> Floor, Eastern Wing, NPKRR Maaligai,  
144, Anna Salai, Chennai - 600 002

Contact Person Details:  
Shri Er. R. Ganapathy Sankaran

Subject: Extension of validity of CRZ Clearance dated 23.12.2008 granted for setting up of coal conveyor (pipe conveyor) and intake and outfall waterlines for the proposed Ennore Thermal Power Project Annexe at Ernavoor Village, Ambattur Taluka, Thiruvallur District by M/s Tamil Nadu Electricity Board - Reg.

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This has reference to your letter No: CE/C/P&E/SE/EMC/AEE/C/F.ETPS Annex TPP/D.572/13 dated 30.11.2013 seeking extension of validity of CRZ Clearance granted vide letter no. F.No11-100/2008-IA-III, dated 23.12.2008. The issue was discussed by the EAC in its 129<sup>th</sup> meeting held on 26<sup>th</sup> - 28<sup>th</sup> December, 2013 and committee recommended for the extension of validity of the clearance dated 23.12.2008 for a period of five years. Accordingly, the validity of the clearance is extended up to 22.12.2018.

2.0 The capacity of the Thermal Power Plant is revised as 1X660 instead of 1x600 MW. As committed the water requirement shall be 25,000 m<sup>3</sup>/hr instead of 92,000 m<sup>3</sup>/hr. All other conditions remain unchanged.

  
(Lalit kapur)  
Director (IA-III)

Copy to:

- (1) The Principal Secretary, Department of Environment and Forests, First Floor, Panagal Building, Saidapet, Chennai - 600 015, Tamil Nadu.
- (2) The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
- (3) The Director, Department of Environment, Government of Tamilnadu, Panagal Building, Ground Floor, Saidapet, Chennai-15, Tamil Nadu.
- (4) The Chairman, Tamil Nadu Pollution Control Board, No. 76, Mount Salai, Gundy, Chennai, Tamil Nadu.
- (5) The CCF, Regional Office, MoEF (SZ), Kendriya Sadan, IVth floor, E&F wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bangalore - 560 034.
- (6) Guard File.
- (7) Monitoring Cell.

(Lalit Kapur)  
Director (IA-III)

(47)

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1/3

No.11-100/2008-IA-III  
Government of India  
Ministry of Environment and Forests  
(IA-III Division)

Paryavaran Bhavan,  
CGO Complex, Lodhi Road,  
New Delhi - 110003.

Dated the 23<sup>rd</sup> December, 2008

**Sub: 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) - Environmental Clearance - regarding.**

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Reference is invited to the letter No.21291/EC3/2008-1, dated 21.10.2008 from Environment and Forests (EC.3) Department, Government of Tamil Nadu and letter No.SE/C/P&E/EE/EMC/AEE/C/F.ETPS Annexe/D.1058/08, dated 20.11.2008 regarding the subject mentioned above.

2. Tamil Nadu Electricity Board is undertaking capacity addition of about 3500 MW coal based power stations under state sector. Hence, the setting up of additional unit (expansion) of ETPS (1X600MW) is now envisaged by TNEB at Ernavoor Village, Ambattur Taluk, Thiruvallur District, Tamil Nadu. The site is located at 79°15' to 80°02' latitude and 12°10' to 13°15' longitude. The intake pipe 3 km (600 m from shore) and outlet pipe 2 km (250m from shore) for seawater intake and outlet is proposed. Built-up area for the project is 1800 m<sup>2</sup>. Water requirement for the project is 92,000 m<sup>3</sup>/hr which will be drawn from deep sea about 600 m from the shore. M/s NIO, Goa recommended to draw intake water from sea about 600 m from shoreline and to discharge coolant water at about 250 m from shoreline. As there is no land acquisition in the proposed corridor, there is no resettlement and rehabilitation issues. The expected cost of the project is Rs.3060 crores.

3. Public hearing for the project is held on 22.10.2008 at project complex. The proposal was considered by Expert Appraisal Committee at its meeting held on 25<sup>th</sup> and 26<sup>th</sup> November, 2008 and has recommended. Tamil Nadu State Coastal Zone Management Authority has recommended the project for clearance in its 46<sup>th</sup> meeting held on 28.8.2008 from Coastal Regulation Zone angle.

4. The proposal has been examined in this Ministry and environmental clearance under the Coastal Regulation Zone Notification, 1991 to the project is hereby accorded, subject to the effective implementation of the conditions as given below:-

**(A) Specific Conditions:**

- (i) The entire pipeline shall be buried underground. The pipeline system and the discharge system should not affect the fishing and movement of fishermen.
- (ii) It shall be ensured that during handling, transportation, storage there shall be no dust generated/spillages. The entire system of handling cement within the port complex shall be covered. Water spray systems shall be installed at appropriate locations where there could be possibility of fugitive dust emission.
- (iii) Arrangement for treatment of liquid effluents shall be made so as to ensure that the untreated effluents are not allowed to be discharged into the sea/marine water.
- (iv) Appropriate safety devices such as masks shall be provided for use by the workers at the site and their usage by them shall be ensured.
- (v) No other products other than the cement shall be handled, stored or transported in the Coastal Regulation Zone area.

**(B) General Conditions:**

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- 213
- (i) A separate Environmental Management Cell with suitably qualified staff to carry out 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.
  - (ii) The project will be monitored by this Ministry's Regional Office at Bangalore. Full support shall be extended to the officers of this Ministry's Regional Office at Bangalore and the officers of the Central and State Pollution Control Boards by the project proponents during the inspection for monitoring purposes by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
  - (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 proponents shall be responsible for implementing the suggested safeguard measures.
  - (iv) This Ministry reserve the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
  - (v) This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.
  - (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.
  - (vii) 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.
  - (viii) The project proponent shall advertise atleast in 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 letters are available with the Tamil Nadu State Pollution Control Board and may also be seen at Website of the Ministry of Environment & Forests at <http://www.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.
  - (ix) 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.
  - (x) Separate clearance shall be obtained by project proponent for handling and storage of these chemicals.
  - (xi) Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

5. 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, 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. 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 18<sup>th</sup> April, 1996 in the Writ petition No.664 of 1993 to the extent the same are applicable to this proposal.

(Dr. A. Senthil Vel)  
Additional Director

To

The Secretary,  
Environment Department,  
Government of Tamil Nadu,  
Secretariat, Chennai - 600 009.

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Copy to:

1. The Chief Conservator of Forests (Central), Regional Office (Southern Zone), Ministry of Environment and Forests, Kendriya Sadan, IVth Floor, Environment & Forests Wings, 17<sup>th</sup> Main Road, II Block, Koramangala, Bangalore - 560 034.
2. The Chief Town & Country Planner, Government of Tamil Nadu, Chennai.
3. The Chairman, Tamil Nadu State Pollution Control Board, 100, Anna Salai, Guindy, Chennai - 600 032.
4. Principal Secretary, Environment and Forests (EC.3) Department, Secretariat, Chennai-9.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-office Complex, East Arjun Nagar, Delhi -32.
6. The Chairman, Tamil Nadu Electricity Board, 144, Anna Salai, Chennai-2.
7. DIG (SU), Regional Office Cell, Ministry of Environment and Forests, New Delhi.
8. Guard File.
9. Monitoring Cell.
10. Director (EI), Ministry of Environment & Forests, New Delhi.

(Dr. A. Senthil Vel)  
Additional Director