

F.No.11-14/2022-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
IA-III Section (CRZ)

Indira Paryavaran Bhawan
Jor Bagh Road
New Delhi – 110003
Dated: 6th February, 2023

To

The Chief Engineer Projects
M/s Tamil Nadu Generation and Distribution
Corporation Ltd (TANGEDCO)
5th Floor Western Wing, NPKRR Maaligai
144 Anna Salai, Chennai, Tamil Nadu- 600002

Email: cepr@tnebnet.org

Subject: Establishment of 10 MLD capacity Desalination plant at R.S.No.355, Mullakadu Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu by M/s Tamil Nadu Generation and Distribution Corporation Ltd (TANGEDCO) - CRZ Clearance - regarding.

Sir,

This has reference to your proposal No. IA/TN/CRZ/261055/2022 dated 22nd March, 2022 on the above mentioned project proposal for CRZ Clearance, in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for CRZ Clearance to the project for Establishment of 10 MLD capacity Desalination plant at R.S.No.355, Mullakadu Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu by M/s Tamil Nadu Generation and Distribution Corporation Ltd (TANGEDCO).

3. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building / Construction and Miscellaneous projects, in its meetings held on 27th April, 2022, 4th August 2022 and 29th November, 2022. The project proponent and their consultant made detailed presentation and informed as under:

- (i) The Centre co-ordinates of the project site are Latitude 8°45'53.35"N Longitude 78°10'53.21"E and proposed to construct and operate a RO Desalination Plant of capacity 10 MLD at the existing Tuticorin Thermal Power Station (TTPS) campus to meet the raw water requirement of its 5 x 210 MW capacity Thermal Power Station.
- (ii) Total project area is 1.95 Acres and the project area is falling in CRZ-II and the area through which the outfall and inlet pass through the CRZ-IB and CRZ-IV.
- (iii) There will be a requirement of 45-50 KLD water during the construction phase and 10 KLD during the operational phase which will be sourced by TANGEDCO.
- (iv) Total of 29 MLD raw sea water is required for a 10 MLD Desalination plant.
- (v) The total cost of the project is ₹98.12 crores and of a total, ₹50 Lakh is for EMP.
- (vi) During the construction phase around 100 workers and operation phase around 35 will be directly employed for the project.



- (vii) Municipal Solid waste generated during construction waste will be 1.0 Ton/month and will be used as manure in the premise. 50 lit/Year of used oil will be generated which will be sold to registered refiners. Discarded Container – 5 Nos./year will be sold to CPCB / MoEF&CC approved recyclers.
- (viii) Total power requirement will be 2500 kW and Emergency DG supply will be 415V, 3 phase, 4 wires, solidly earthed Source.
- (ix) The CRZ Map for the proposed project was prepared by the Institute of Remote Sensing, Anna University, Chennai.
- (x) Project activity is a permissible activity as per CRZ notification, 2011 vide Para 4(i) (a), Para 8 I CRZ I (i) (b) and 8 II CRZ II (v). However, project requires clearance vide Para 4(ii) (h) of the CRZ Notification 2011.
- (xi) The Tamil Nadu State Pollution Control Board has issued NOC / CTE vide letter No: T2/TNPCB/F.0042/TTPS/2019 dated 25/11/2019.
- (xii) The Tamil Nadu Coastal Zone Management Authority has recommended the proposal for CRZ clearance vide its Letter No. P1/2626/2019 dated 22/02/2022.

4. The EAC made detailed deliberated on the proposal. The proposal was earlier considered by the EAC in its meetings held on 27th April, 2022 and 4th August 2022. The Committee in its earlier meeting noted that the project proponent has not provided sufficient information about EIA report specially water quality parameter at outlet point, the copy of original proposal submitted to TNCZMA, Brine dispersion study, water quality and ecology data at the adjoining areas of outlet predictive modelling on dispersion etc. The project proponent has now submitted documents as desired by EAC and placed before the Committee.

The PP has submitted clarifications / information before the EAC on Brine dispersion study, water quality, ecology data at the adjoining areas of outlet predictive modelling on dispersion etc. and intimated that three options of outfall locations are suitable for safe discharge of Brine water. PP has proposed all the three options for brine disposal and had considered option point no 2 (along with existing discharge point) as more feasible for them. To this, TNCZMA committee accepted the submission by PP but recommended to go for option 3 as it is safer option because of sufficient distance from shore line i.e 3 km deep in sea.

The Committee noted that the detailed hydro dynamic & mathematical model study submitted by PP that the both option 2 and 3 are environmentally safe and there will be no major impact on marine and aquatic ecology due to the brine discharge for both option 2 and 3, however option 3 i.e. deep sea discharge at a point, 3 km away from shore and accepted for discharge at option 3 sea discharge only. The Committee also noted that TNCZMA recommended the project and intimated that the activity is a permissible activity vide Para 4(i) (a), Para 8 I CRZ I (i) (b) and 8 II CRZ II (v), however, project requires clearance vide Para 4(ii) (h) of CRZ Notification 2011.

The Committee after detailed deliberations and based on the clarifications/additional information submitted and commitment made by PP vide letter No. CE/Pr/SE/C/P&E/EE/EMC-I/AEE/C/F.TTPS10MLD Desal Plant/D.256/22 dated 29/11/2022 recommended the proposal for CRZ Clearance.

5. Based on the recommendation of the Tamil Nadu Coastal Zone Management Authority and considering the submissions made by the project proponent, the Ministry of Environment, Forest and Climate Change, in acceptance of the recommendations of the Expert Appraisal Committee (CRZ), hereby accords CRZ Clearance to the project for **Establishment of 10 MLD capacity Desalination plant at R.S.No.355, Mullakadu Village, Thoothukudi Taluk, Thoothukudi District, Tamil Nadu by M/s Tamil Nadu Generation and Distribution Corporation Ltd (TANGEDCO)**, under the provisions of

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the CRZ Notification, 2011 and amendments thereto, subject to the compliance of terms and conditions as under:-

PART A – SPECIFIC CONDITIONS:

- (i). All construction shall be strictly in accordance with the provisions of the CRZ Notification, 2011, as amended from time to time.
- (ii). The PP should take deep sea discharge option 3 at a point, 3 km away from shore as committed *vide* letter No. CE/Pr-I/SE/C/P&E/EE/EMC-I/AEE/C/F.TTPS10MLD Desal Plant/D.256/22, dated 29/11/2022.
- (iii). Monitoring of Water Quality and Marine Ecology to be undertaken at 4 km radius of outfall point.
- (iv). No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.
- (v). No construction shall be undertaken to disturb tidal creek, free flow of groundwater or natural course of water flow.
- (vi). Permanent labour camp, machinery and material storage shall not be set up in the CRZ area.
- (vii). No groundwater shall be extracted within CRZ area to meet water requirements during the construction and / or operational phase of the project.
- (viii). No excavated material during the construction shall be dumped in water bodies or adjacent areas. The site shall be restored to its near original condition after completion of construction.
- (ix). Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.
- (x). All the conditions stipulated by the Tamil Nadu Coastal Zone Management Authority has recommended the proposal for CRZ clearance *vide* its Letter No. P1/2626/2019 dated 22/02/2022 and commitments made by the PP before the CZMA and EAC shall be followed in letter and spirit.
- (xi). All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.

PART B - GENERAL CONDITIONS:

- (i). Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.
- (ii). 'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and / or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (iii). Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of Competent Authority.
- (iv). All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by Central / State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea / coastal water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project proponent. The treated waste water shall be reused for landscaping, flushing and / or HVAC cooling purposes etc. within the development. The project proponent should also make alternate arrangement for situation arising due to

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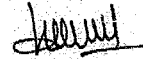
malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.

- (v). Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- (vi). A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority/State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office/ Tehsildar's office for 30 days.
- (vii). A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned Regional Office of this Ministry regarding the implementation of the stipulated conditions.
- (viii). The Ministry of Environment, Forest & Climate Change 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.
- (ix). Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.
- (x). In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (xi). The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non-compliance.
- (xii). All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective Competent Authorities.
- (xiii). The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <https://parivesh.nic.in/>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.
- (xiv). 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.
- (xv). The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.
- (xvi). The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules,

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1986, as amended subsequently, shall also be put on the website of the project proponent along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.

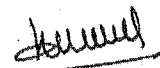
6. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
7. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the CRZ clearance, if implementation of any of the above conditions is not found satisfactory.
8. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
9. Any appeal against this CRZ clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
10. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.
11. This issues with approval of the Competent Authority.



(Dr. H. Kharkwal)
Scientist 'E' (CRZ)

Copy to:

1. The Principal Secretary, Department of Environment and Climate Change, Government of Tamil Nadu, No.1, Jeenias Road, Panagal Building, Ground Floor, Saidapet, Chennai-600015, Tamil Nadu.
2. The Deputy DGF (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Ist and IInd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam Chennai – 600034, Tamil Nadu.
3. The Member Secretary, Tamil Nadu Coastal Zone Management Authority, Department of Environment, Government of Tamil Nadu, Ground Floor, Panagal Building, Saidapet, Chennai-600015, Tamil Nadu.
4. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032
5. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600032, Tamil Nadu.
6. Guard File / Monitoring File / Website / Record File.



(Dr. H. Kharkwal)
Scientist 'E' (CRZ)

