

Brief Summary

Project Title: Proposed 5x800 MW Kadaladi TPP at Villages Tharaikudi, kannirajapuram and Narripyur, Taluk Kadaladi, District Ramanathapuram, Tamil Nadu by M/s. Tamil Nadu Generation & Distribution Corporation Ltd., (TANGEDCO)

M/s. Tamil Nadu Generation & Distribution Corporation Ltd., (TANGEDCO), are proposing a mega power project of kadaladi Thermal Power project of 5x800 MW Supercritical Coal Based Thermal Power Plant at Villages Tharaikudi, kannirajapuram and Narripyur kadaladi Taluk, Ramanathapuram District, Tamilnadu. The proposed project falls under project activity 1 (d) Coal Based Thermal Power Plant and category A.

Land: TANGEDCO has proposed to establish the proposed 5 x800 MW Kadaladi Thermal Power Station in Kadaladi Taluk. An area of 1642 acres of barren land is available in Tharaikudi, Kannirajapuram and Narippyur villages of Kadaladi taluk Of Ramanathapuram District in Tamilnadu.

Alternate sites at kondanallampatti village of kadaladi Taluk and Valinokkam of Kadaladi Taluk were also considered and the proposed site is most viable for setting up the Power project.

Fuel requirement: The Coal requirement for the project is 15.59 MTPA based on GCV of coal as 4500 kcal/kg.

Fuel handling: Coal will be transported through existing/proposed Railway line to the project site from Tuticorin Port.

Water requirement:

The sea water for cooling water requirement of about 41,150 m³/hr for the proposed Power plant will be drawn from Sea (Gulf of Mannar) at a distance of 2.3 Km from shore adopting Natural Draft cooling tower system. Desalination plant will be established to obtain raw water for the plant purposes.


Coolant Water / Effluent: The coolant water of 25,380 m³/day mainly from cooling tower blow down, DS plant and RO reject will be disposed into sea after meeting sea disposal standards, whereas wastewater coming from domestic activities and service water will be treated in STP and reused for greenbelt development.

Ash generation and disposal: The ash handling system envisages dry extraction and disposal of bottom ash and fly ash. Provision will be made to extract entire bottom ash in wet form for disposal in ash dyke as an emergency measure. 100% fly ash will be utilized as per the MOEF notification SO 2804 (E) dt 3.11.2009.

EMP expenditure: To comply with the environmental protection measures budgetary provision for Environmental Protection and Safety measures to the tune of 8% of the cost of project will be utilised.

CSR provision: Necessary socio economic improvement will be made after conducting socio economic survey of the proposed area apart from direct and indirect employment and project investment.

The project contributes to availability of power to ensure growth on all sector and overall development of the country.


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