

TUTICORIN THERMAL POWER STATION



Tuticorin Thermal Power Station is located in Thoothukudi harbour Estate, 8 Km away from Thoothukudi Town on 160 hectares of land leased from Port Trust. It is connected by Road, Rail and Seaways and Air.

TTPS has 5 units having capacity of 210 MW each. The coal required for the boilers is transported from coal fields of Orisa, Bengal & Bihar. Coal is transported through rail from the coal fields to the load Ports of Haldia, Paradip and Vizag and from these Ports, coal is transported to TTPS through ships and unloaded at Tuticorin Port. The average coal consumption is around 5 million tonnes per annum.

The location of this thermal plant at Tuticorin has certain advantages. Tuticorin bay is calm and free from cyclonic influences, it will facilitate transport of coal all through the year and drawl of cooling water from sea without any problem.

Raw water required for DM water production and use in boiler and for other use is tapped off from the 20 MGD water mains laid by TWAD Board from Thamirabarani River to Tuticorin Industrial complex. The requirement of raw water is 6000 KL per day.

This station had consecutively received awards from 1984–1985 onwards and Gold Medal under Govt. of India meritorious productivity Reward scheme from 2000–01 to 2003-04 for achieving peak hour generation exceeding 7875 MU.

ADDRESS:

TUTICORIN THERMAL POWER STATION (5 X 210MW),

TUTICORIN HARBOUR ESTATE,

TUTICORIN DISTRICT,

PIN CODE: 628 004.

PHONE No.: 0461 -2352521 to 2352524.

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SALIENT FEATURES

1. **LOCATION** : Tuticorin Harbour Estate (About 8 kms from Tuticorin Town)
2. **AREA**
 - Main plant : 160 Hectares
 - Ash Dyke Stage I : 180 Hectares
 - Ash Dyke Stage II : 180 Hectares
3. **CAPACITY**
 - Stage I : 2 x 210 MW (Units I & II)
 - Stage II : 1 x 210 MW (Unit III)
 - Stage III : 2 x 210 MW (Units IV & V)
4. **COST OF PROJECT**
 - Stage I : Rs.178 Crores
 - Stage II : Rs. 89 Crores
 - Stage III : Rs.804 Crores
5. **DATE OF COMMISSIONING**
 - Unit I : 09.07.1979
 - Unit II : 17.12.1980
 - Unit III : 16.04.1982
 - Unit IV : 11.02.1992
 - Unit V : 31.03.1991
6. **HEIGHT OF CHIMNEY**
 - Stage I : 122 M
 - Stage II : 122 M
 - Stage III : 220 M
7. **REQUIREMENT OF COAL** : 5 Million Tonnes per Annum (Approx)

8. **SOURCE OF COAL**
Indian coal : Bengal, Bihar, Orissa coal fields.
Imported coal : Indonesia, Russia.
9. **LOADING PORTS**
Indian coal : Haldia, Paradip & Vizag.
Imported coal : Indonesia, Russia.
10. **REQUIREMENT OF RAW WATER (Design)** : 6000 KL per day
11. **SOURCE OF WATER** : Thamiraparani river water (Pumped from Srivaikundam Anaikut by TWAD Board)
12. **REQUIREMENT OF COOLING WATER (Design)** : 1,50,000 Cubic metre / Hour (Approx)
13. **SOURCE OF COOLING WATER** : Sea water from Harbour Basin
14. **SWITCH YARD** : **Indoor Type
(First of its kind in TNEB)**
15. **230 KV GRID FEEDERS** :
1) Auto SS feeder I
2) Auto SS feeder II
3) Kayathar feeder I
4) Kayathar feeder II
5) Koodankulam feeder
6) Sterlite feeder
7) Chekkanoorani feeder
8) Kinnimangalam feeder
9) Madurai feeder
10) SIPCOT Meelavittan feeder

LANDMARKS (As on 15.10.2017)

Sl. No.	Particulars	Unit-I	Unit -II	Unit -III	Unit-IV	Unit-V	Station
1.	Maximum capacity reached on date	03.03.80	04.03.81	03.12.82	28.01.93	18.12.93	07.01.94
2.	Maximum generation per day in MU reached on date	5.28 24.12.04	5.28 04.02.02	5.28 31.12.03	5.28 04.02.02	5.28 03.02.02	26.28 23.02.04
3.	Maximum generation per month in MU reached during	156.03 Jan.'12	163.55 Mar.'04	162.89 Mar.'04	161.77 Oct.'02	162.81 Mar.'04	787.14 Mar.'04
4.	Maximum PLF in % reached during	101.8 Apr.'03	104.7 Mar.'04	104.4 Feb.'04	104.5 Feb.'04	104.7 Apr.'04	101.9 Apr.'03
5.	Maximum generation per year in MU and PLF % reached during	1714.75 93.0 2011-12	1757.22 95.3 2003-04	1732.62 93.9 2003-04	1755.68 95.4 2001-02	1749.58 95.1 2001-02	8282.14 90.04 2012-13
6.	Maximum kwhr/kw/year reached during	8165 2011-12	8368 2003-04	8251 2003-04	8360 2001-02	8331 2001-02	7888 2012-13
7.	Minimum oil used per unit generation (ml/kwhr) achieved during the month	0.00 Feb.'15	0.00 Mar.'14	0.01 Mar.'15	0.00 Jan.'97	0.00 Jun.'96	0.15 Apr.'03
8.	Minimum auxiliary consumption % achieved during the month	6.4 May 2000	6.4 Mar.'01	6.5 Feb.'04	7.1 Sep.'97	6.7 Sep.'99	7.2 Feb.'02
9.	Maximum number of days of continuous service	92 (14.12.15 to 16.03.16)	174 (11.09.12 to 05.03.13)	115 (02.02.08 to 27.05.08)	168 (24.01.13 to 12.07.13)	232 (15.01.04 to 04.09.04)	26 days 18 Min. (12.04.07/ 03.18 Hrs. to 08.05.07/ 03.36 Hrs.)
10.	Continuous service of more than 100 days (No. of times)	--	4	5	10	11	--

