

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.4273
TO BE ANSWERED ON 19.03.2020**

POWER PROJECTS IN TAMIL NADU

4273. SHRI GNANATHIRAVIAM S.:

**Will the Minister of POWER
be pleased to state:**

- (a) the details of the power projects along with their capacities undertaken by the Government in Tamil Nadu;
- (b) the status of the proposed Green Power Corridors in Tamil Nadu; and
- (c) the status and implementation of the inter-State transmission scheme in Tamil Nadu?

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER, NEW & RENEWABLE ENERGY AND THE MINISTER OF STATE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP

(SHRI R.K. SINGH)

(a) : Presently, power projects with a total capacity of 11385 MW are under construction in the state of Tamil Nadu. The details of the same are given at Annexure-I.

(b) : The status of existing/under implementation Green Energy Corridors (GEC) projects for Transmission Lines and Substations in Tamil Nadu are given at Annexure-II and Annexure-III respectively. Further, to achieve the target of integration of 175 GW Renewable Energy (RE) capacity by 2020-22, a potential RE capacity of 3 GW has been identified in Tamil Nadu. For evacuation of identified potential RE Power from Tamil Nadu, transmission schemes as under have been identified:

(i) **Karur Wind Energy Zone (WEZ):**

- Establishment of 2500MVA, 400/230Kv Karur Pooling Station
- LILO of Pugalur - Pugalur HVDC kVD/C (Quad) line at Karur Pooling Station.

(ii) **Tuticorin/ Tirunelveli Wind Energy Zone (WEZ):**

- **Augmentation of 500MVA, 400/230 kv ICT at Tuticorin-II substation.**
- **Upgradation of Tuticorin- Dharampuri (Salem New) – Madhugiri-Narendra 765kV transmission corridor (presently operating at 400kV its rated voltage level.**

In addition, Kadaladi-Kamudhi 400kV intra-state DC transmission line has been approved in Tamil Nadu by the Standing Committee on Power System Planning Southern Region.

(c) : The status of Inter-State Transmission Schemes under implementation in Tamil Nadu is given at Annexure-IV.

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 4273 TO BE ANSWERED IN THE LOK SABHA ON 19.03.2020.

List of Under Construction Power Projects in Tamil Nadu

Sl. No.	Project Name	Fuel	Unit No	Capacity (MW)
CENTRAL SECTOR				
1	Neyveli New TPP	Thermal	U-2	500
2	PFBR (Kalpakakam) / Bhavini	Nuclear	U-1	500
3	Kudankulam Nuclear Power Project	Nuclear	U-3 to U-5	3000
STATE SECTOR				
1	Ennore exp. SCTPP	Thermal	U-1	660
2	Ennore SCTPP	Thermal	U-1	660
3	Ennore SCTPP	Thermal	U-2	660
4	North Chennai TPP St-III	Thermal	U-1	800
5	Uppur SCTPP	Thermal	U-1	800
6	Uppur SCTPP	Thermal	U-2	800
7	Udangudi STPP Stage I	Thermal	U-1	660
8	Udangudi STPP Stage I	Thermal	U-2	660
9	Kundah Pumped Storage (phase-I, II & III)	Hydro	U-1 to U-4	500
PRIVATE SECTOR				
1	Tuticorin TPP St-IV	Thermal	U-1	525
2	Tuticorin STPS	Thermal	U-1	660

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 4273 TO BE ANSWERED IN THE LOK SABHA ON 19.03.2020.

Status of existing/under implementation GEC projects in Tamil Nadu (Transmission Lines)

Green Energy Corridor - I

SI No	Name of Transmission Lines	Executing Agency	Ckts [Single Circuit (S/C) & Double Circuit (D/C)]	Voltage Level (kV)	Total Length (cKm)	Progress Status of Transmission lines as on 29.02.2020				Target Date		Remarks
						Total Locations (Nos)	Foundation completed (Nos)	Tower Erected (Nos)	Stringing completed (CKm)	Schedule	Revised/ Anticipated	
1	Kayathar - Thennampatty	TANTRANSCO	D/C	400	48	76	76	76	48	Jul-18	May-19	Commissioned 05/2019.
2	Arasur (PGCIL) - Gobi S/S	TANTRANSCO	S/C	230	48	192	192	192	48	Sep-16	May-18	Commissioned 31/12/2018
3	Kayathar - Tuticorin S/S	TANTRANSCO	D/C	230	113	230	230	230	113	DEC-16	Jul-18	Commissioned 20.8.2018
4	Veeranam - Kodikurichi	TANTRANSCO	S/C	220	24	86	86	86	24	SEP-16	Mar-18	Commissioned 20.02.2018
5	Veeranam - Tirunelveli	TANTRANSCO	S/C on D/C	230	31	11	11	11	31	Sep-16	Dec-17	Commissioned 22.12.2017
6	Cuddalore - Veerapuram (SP Koil) Via Neyveli.	TANTRANSCO	D/C	230	348	706	699	699	339	SEP-16	Mar-20	Under construction
7	Ingur - Arasur (PGCIL)	TANTRANSCO	S/C	230	54	228	226	218	32	SEP-16	Mar-20	Under construction
8	Rasipalayam - Dharmapuri (Palavadi)	TANTRANSCO	D/C	400	390	564	560	554	250	Jun-17	Dec-20	Under construction
Green Energy Corridor - I ISTS												
1	Tirunelveli PS/Tuticorin - II - Tuitcorin PS (Quad) line-1	PGCIL	D/C	400	24	33	33	33	24	APR-17	Mar-18	Commissioned 03/2018
2	Tirunelveli PS/Tuticorin - II - Tuitcorin PS (Quad) line-2	PGCIL	D/C	400	24	34	34	34	24	APR-17	Mar-18	Commissioned 03/2018

ANNEXURE-III

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Status of existing/under implementation GEC projects in Tamil Nadu (Substations)

GEC - I - ISTS

SI No	Name of Sub Stations	Executing Agency	Voltage Ratio (kV/kV)	Capacity (No.x MVA)	Progress of substation				Target Date		Remarks
					Land Acquired (%)	Civil works completed (%)	Materials / Equipments Received (%)	Materials / Equipments erected (%)	Original	Revised/ Anticipated	
1	Tirunelveli Pooling Station (GIS)/ Tuticorin - II	PGCIL	400/230	2x500	100	100	100	100	MAR-18	Jun-18	Commissioned 06/18

Intrastate

1	Thennampatty	TANTRANSCO	400/230/110	2x315+2x200	100	100	100	100	Jul-17		commissioned on 05.11.2019.
2	Sembatty (Aug.)	TANTRANSCO	230/110	3 X 160	Existing SS	100	100	100	Feb-17		commissioned on 07.07.2018,04.12.2018,22.02.2019
3	Anupankulam (Aug.)	TANTRANSCO	230/110	3 X 160	Existing SS	100	100	100	Feb-17		commissioned on 23.02.2018,11.10.2018,25.10.2019
4	Pudukottai (Aug.)	TANTRANSCO	230/110	3 X 160	Existing SS	100	100	100	Feb-17		commissioned on 25.02.2018,19.07.2018, 05.01.2019
5	Cuddalore (Aug.)	TANTRANSCO	230/110	3 X 160	Existing SS	45	40	40	Feb-17	Dec-20	Under Construction
6	Tiruvannamalai (Aug.)	TANTRANSCO	230/110	3 X 160	Existing SS	100	90	90	Feb-17	Dec'20	2 units commissioned on 14.08.2018 & 06.03.2019
7	Villupuram (Aug.)	TANTRANSCO	230/110	2 X 160	Existing SS	50	50	50	Feb-17	June'20	1 unit commissioned on 27.09.2019

ANNEXURE-IV

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 4273 TO BE ANSWERED IN THE LOK SABHA ON 19.03.2020.

DETAILS OF THE INTER STATE TRANSMISSION SCHEMES UNDER IMPLEMENTATION IN TAMIL NADU

- 1. ± 800 kV Raigarh-Pugalur 6000 MW HVDC System (Expected Commissioning- Bipole-I (March, 2020) & Bipole-II (May, 2020))**
 - a. ± 800 kV Raigarh & Pugalur HVDC Stn**
 - b. ± 800 kV Raigarh – Pugalur HVDC Bipole link – 3676 ckm**

- 2. 400kV AC System Strengthening at Pugalur end (Expected Commissioning- Progressively from March, 2020 to June, 2020)**
 - a. Pugalur HVDC – Pugalur 400kV (quad) D/c line – 58 km- (March, 2020)**
 - b. Pugalur HVDC – Arasur 400kV (quad) D/c line – 60 ckm (March, 2020)**
 - c. Pugalur HVDC – Thiruvalem 400kV (quad) D/c line – 390 km (June, 2020)**
 - d. Pugalur HVDC – Edayarpalayam 400kV (quad) D/c line – 57 km (June, 2020)**
 - e. Edayarpalayam – Udumalpet 400kV (quad) D/c line – 54 km (June, 2020)**

- 3. ± 320 kV, Pugalur- Trichur 2000 MW VSC Based HVDC System (Expected Commissioning- 1st Monopole - May, 2020 & 2nd Monopole- June, 2020)**
 - a. ± 320 kV, VSC based HVDC terminal at Pugalur & Trichur**
 - b. VSC based HVDC link between Pugalur and North Trichur (Kerala). – 250 km**

- 4. Transmission System for LTA of 314 MW for 2x500 MW Neyveli Lignite Corporation Limited TS-1 (Replacement) (NNTPS) in Neyveli (Expected Commissioning - March, 2020)**
 - a. NNTPS switchyard – Ariyalur (Villupuram) 400 kV D/c line – 74km**
