

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.764
TO BE ANSWERED ON 06.02.2020**

EXPANSION OF GRID NETWORK

764. ADV. DEAN KURIAKOSE:

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

- (a) whether the Government proposes to expand the grid network in the country;**
- (b) if so, the details of the proposed projects thereof;**
- (c) the proposed date of commissioning of Kudankulam-Thirunelveli-Idamom-Kochi 400 KV line;**
- (d) the details of electricity allocated to each State including Kerala from this project; and**
- (e) the details of total amount spent for this project?**

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) & (b) : Yes, Sir. The electricity grid network in the country is being expanded on continuous basis to take care of growth in electricity generation and load.

As per Section 3 of the Electricity Act 2003, the Central Electricity Authority (CEA) prepares National Electricity Plan (NEP), which inter-alia includes required transmission system addition in the country. The NEP, Volume-II (Transmission) notified in January 2019 estimated the required transmission system addition for the period 2017-22. As per this Plan, about 110,000 ckm of transmission lines, about 383,000 MVA of transformation capacity in the substations at 220 kV and above voltage levels and 14,000 MW of HVDC bi-pole/back-to-back capacity are proposed to be added during the period 2017-22.

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Transmission lines of 4,21,244 ckm (voltage level of 220 kV and above) and transformation capacity in substations of 9,52,713 MVA (voltage level of 220 kV and above) are in operation as on December, 2019, which is expected to increase to 4,78,132 ckms and 11,04,955 MVA respectively by 2021-22. Further, 24,000 MW HVDC bi-pole/back-to-back capacity are in operation as on December, 2019, which are expected to increase to 33,500 MW by 2021-22. These include intra-state and inter-state transmission systems of 220 kV and above voltage level.

Also, the cumulative Inter Regional (IR) transmission capacity of the National Grid, which is presently about 1,00,550 MW, is expected to be enhanced to 1,18,050 MW by 2022.

(c) : Kudankulam – Tirunelveli, Tirunelveli – Edamon, Tirunelveli – Cochin 400kV D/c lines were planned and implemented as part of Kudankulam Atomic Power Plant (KAPP)(2000 MW) Transmission System. The commissioning dates of the lines are as below:

Kudankulam – Tirunelveli 400kV (Quad) 2xD/C lines – 01.04.2009

Tirunelveli – Edamon 400kV D/c line (operating at 220kV) – 01.07.2010

Tirunelveli – Cochin 400kV (Quad) Circuit-I & II – 27.09.2019 & 20.12.2019

(d) : Power is not allocated to States from a specific transmission line. However, power is allocated from particular generating station, which is delivered to State through Inter State Transmission Line.

(e) : Total expected expenditure of the lines mentioned in para (c) above is approx. Rs. 1545.0 Crores.
