

Underground power transmission infrastructure

265. DR. SASIKALA PUSHPA RAMASWAMY: Will the Minister of POWER be pleased to state:

(a) whether Government is aware of the fact that high and extra-high voltage underground electricity cable systems rated 220kv and above have become part of the backbone of modern day power transmission infrastructure;

(b) whether Government has implemented such underground cable systems in any part of the country; and

(c) if so, details thereof and if not, reasons therefor?

THE MINISTER OF STATE OF THE MINISTRY OF POWER (SHRI RAJ KUMAR SINGH): (a) Underground cable systems of 220 kV and upto 400 kV voltage level are part of the Indian power transmission infrastructure. However, due to techno-economic reasons, their use is restricted to areas where it becomes difficult to construct overhead transmission lines, particularly in urban areas and in underground generating stations etc. Moreover, the length of such cables is limited due to high reactive compensation requirement.

(b) and (c) Underground cable systems have been implemented by Central and State utilities in various parts of the country. As per information available, the details of such cable system implemented in transmission system of the country are given in the Statement.

Statement***Details of underground cable systems implemented in transmission
System of the country***

Sl. No.	Name of transmission element	Voltage Level (kV)	Executing Agency	KM	Commissioning Date
1	2	3	4	5	6
1.	In Gagangir, Z-Morh area of Srinagar (near Zojila pass) under Srinagar - Leh transmission system.	220	PGCIL	6.2	November, 2018
2.	Pugalur to North Trichur	320	PGCIL (HVDC)	32	Under Execution

1	2	3	4	5	6
3.	LILO of Padghe (MSEB) - Kharghar (MSEB) at Navi Mumbai (PG)	400	PGCIL	2	Under Execution
4.	Singanayakanahalli S/S - DG Plant Yelahanka Station (UG Cable)	220	KPTCL	6	September, 2018
5.	Guindy - Porur GIS (Cable)	220	TANTRA-NSCO	8	July, 2018
6.	Thiruverkadu-Ambattur 3rd Main Road S/S (UG Cable)	220	TANTRA-NSCO	5	August, 2017
7.	Vyaspadi-Pulianthoppe (UG Cable)	220	TANTRA-NSCO	1	August, 2017
8.	Tondiarpet-Basin Bridge (UG Cable)	220	TANTRA-NSCO	2	July, 2017
9.	Rohini theatre take off structure to CMRL Koyambedu 230 kV GIS S/S (230 kV UG Cable)	220	TANTRA-NSCO	1	June, 2017
10.	PPI Road-Koyambedu (UG Cable)	220	TANTRA-NSCO	1.5	May, 2017
11.	Mylapore-Tharamani (UG Cable)	220	TANTRA-NSCO	13	April, 2017
12.	Harsh Vihar-Patparganj line (UG Cable link)	220	DTL	15	February, 2017
13.	HSR Layout-Nimhans S/S (UG Cable)	220	KPTCL	11	February, 2017
14.	Chandrayanagutta-220 kV Imlibun GIS (UG Cable)	220	TSTRA-NSCO	5	February, 2017
15.	Moulali-Osmania University	220	TSTRA-NSCO	4.5	December, 2016
16.	LILO of Shapur Nagar-Gachibowli feeder at GIS Erragadda S/S	220	TSTRA-NSCO	10	May, 2015

1	2	3	4	5	6
17.	Kadapperi - Guindy (UG Cable)	220	TANTRA-NSCO	14	April, 2015
18.	Maharani Bagh - Gazipur (0.5 KM cable on Maharani Bagh side & 8.5 KM OH line)	220	DTL	10	September, 2014
19.	Terminating tower point - HSR Layout (Cable work)	220	KPTCL	3	July, 2014
20.	Elephantgate - Mylapore (UG Cable)	220	TANTRA-NSCO	12	October, 2013
21.	East Div Compound - Nimhans Station	220	KPTCL	5	May, 2012
22.	Malakaram - Gunrock	220	APTRA-NSCO	16	March, 2012
23.	Maharani Bagh - Trauma Centre/AIIMS (UG Cable)	220	DTL	10	January, 2012
24.	LILO of Mulund - Borivali at Bhandup	220	MSETCL	2	December, 2011
25.	East Div Comp. - HA1 in Bengaluru	220	KPTCL	8	November, 2011
26.	245 kV XLPE UG Cable Asifnagar - Karwan	220	Andhra Pradesh	3	April, 2007

Delayed hydro power projects

266. SHRI HISHEY LACHUNGPA: Will the Minister of POWER be pleased to state:

(a) the number of Hydro Projects of NHPC and SJVN which are running behind schedule in the country;

(b) the reasons therefor, project-wise;

(c) the cost of escalation for each project; and

(d) the efforts being made to resolve these issues and complete the projects in extended time?