



भारत सरकार  
**GOVERNMENT OF INDIA**

केंद्रीय विद्युत प्राधिकरण  
**CENTRAL ELECTRICITY AUTHORITY**

भारत में 12 वीं योजना (2012-17) के दौरान पारेषण क्षमता में वृद्धि  
**TRANSMISSION CAPACITY ADDITION DURING 12<sup>TH</sup> PLAN (2012-17) IN INDIA**



विद्युत प्रणाली परियोजना प्रबोधन प्रभाग  
**POWER SYSTEM PROJECT MONITORING DIVISION**

जनवरी, २०१८  
**JANUARY, 2018**

नई दिल्ली  
**NEW DELHI**



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रविन्द्र कुमार वर्मा  
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विद्युत् मंत्रालय  
MINISTRY OF POWER  
सेवा भवन, रामकृष्ण पुरम  
SEWA BHAWAN, RAMAKRISHNA PURAM

नई दिल्ली - ११००६६, दिनांक : 2<sup>nd</sup> January 2018

NEW DELHI-110066, DATE:

## FOREWARD

India's Power Transmission networks constitute the vital arteries of the entire power value chain. It goes without saying that the growth of power sector is contingent to development of a robust and a non-collapsible transmission network. Over the past decades, the power transmission network has witnessed commendable growth and evolved to largely 400 kV system from sub-132 kV system, which is now moving towards a 765 kV system comprising of EHV AC and HVDC transmission lines. In spite of many challenges, the growth of transmission network has been matching with the generation capacity addition.

Central Electricity Authority is making public from time to time, the statistics concerning generation, transmission, distribution and utilization of electricity as per the provision of Electricity Act, 2003 and the report "Transmission Capacity Addition during 12<sup>th</sup> Plan is being brought out by CEA in fulfilment of its obligations under Section 73(f), (i) and (j) of the Electricity Act, 2003.

Task of collection, scrutiny, compilation of data and monitoring of the transmission projects of 220 kV and above (132 kV in certain vital cases as well as in the states of North-Eastern Region) has been entrusted to Power System Project Monitoring Division of Central Electricity Authority.

This report covers details of transmission schemes commissioned during the 12<sup>th</sup> Plan Period (2012-13 to 2016-17) and growth of transmission sector since 6<sup>th</sup> Plan. During 12<sup>th</sup> Plan, about 110370 ckm EHV lines and 331214 MVA/ MW transformation capacity has been added in the country against the programme of 107440 ckm EHV lines and 282750 MVA/ MW transformation capacity as envisaged at the beginning of 12<sup>th</sup> Plan. Apart from highest achievement of transmission capacity addition, commissioning of first +/- 800 kV HVDC transmission line, 495% growth in 765 kV transmission network, the Indian power grid was operated at single frequency and goal of one nation one frequency was achieved in 12<sup>th</sup> Plan with the commissioning of Solapur – Raichur 765 kV line in Dec'2013.

I hope that this report would serve as a useful guide to all those who are involved in the planning, construction and monitoring of Indian power sector.

  
(Ravindra Kumar Verma)



प्रकाश मस्के

**Prakash Mhaske**

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## FOREWARD

Transmission system planning is a continuous process of identification of transmission addition requirements, their need and timeframe of implementation commensurate with generation addition and growth in demand for electricity but timely completion of transmission projects matching with respective generation project is utmost important for its utilization in the most optimized manner.

As envisaged in National Electricity Plan (2012-17), against programme of 107440 ckm of transmission line and 282750 MVA of transformation capacity, about 110370 ckm EHV lines and 331214 MVA/ MW transformation capacity has been added in the country during 12<sup>th</sup> Plan, thus achieving 100% transmission capacity as planned. The other important achievement of 12<sup>th</sup> Plan in transmission sector is introduction of next higher voltage level i.e +/- 800 kV with the implementation of +/- 800 kV HVDC link between NER & NR and WR & NR. With the rapid growth of 765 kV network in this plan period, the inter-regional power transfer capacity enhanced from 27150 MW to 75050 MW by the end of 12<sup>th</sup> Plan showing 170% growth.

The report "Transmission Capacity Addition during 12<sup>th</sup> Plan being brought out by CEA in fulfilment of its obligations under Section 73(f), (i) and (j) of the Electricity Act, 2003 indicates useful details of growth of transmission sector since 6<sup>th</sup> Plan, transmission lines, substations completed during 12<sup>th</sup> Plan etc. I hope, this report would serve as a useful guide to all those who are involved in transmission sector.

(Prakash Mhaske)



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## FOREWARD

Power System Project Monitoring Division of Central Electricity Authority is monitoring the physical progress of transmission projects for their timely completion matching with the respective generation projects and publishes various report in fulfilment of its obligations under Section 73(f), (i) and (j) of the Electricity Act, 2003. This report on "Transmission Capacity Addition during 12<sup>th</sup> Plan" is being brought out containing chapter on programme and its achievement for the 12<sup>th</sup> Plan Period (2012-17), fund utilization in transmission sector by various transmission utilities in central & state sector, addition of transmission lines and substation during 12<sup>th</sup> Plan Period (2012-17) and growth of transmission sector in India since 6<sup>th</sup> Plan onward etc.

Although targets set for 12<sup>th</sup> plan have been achieved and 110370 ckm EHV transmission lines and 331214 MVA/ MW transformation capacity was added but there still remains some inadequacies/missing links/bottlenecks at the end of 12<sup>th</sup> Plan from the planning and grid operation perspective. The reason for delays and its affects have been analyzed and evaluated in the report. The report also indicates salient features of 12<sup>th</sup> Plan highlighting major steps taken by Central/State Govt. agencies in resolving the constraints/issues, which were affecting severely the pace of construction progress.

Analyzing such a voluminous data of EHV transmission lines and substation commissioned in 12<sup>th</sup> Plan and preparing report on capacity addition was a huge task. I sincerely thank officers of PSPM Division specially Shri Ravi Kant, Assistant Director, Shri Avinash Pathak, Assistant Director, Shri Rajesh, Assistant Director and Shri Manoj Yadav, Assistant Director in helping to bring out this report.

(Brijesh Kumar Arya)

# TRANSMISSION CAPACITY ADDITIONS DURING 12<sup>TH</sup> PLAN (2012-17)

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## **CHAPTER – 1**

### **EXECUTIVE SUMMARY**

#### **1.1 INTRODUCTION**

The role of electricity sector in an economy hardly needs to be emphasized. Adequate capacity addition and its utilization in the most optimized manner is the most important aspect of the power development.

EHV power system has seen rapid growth over last two decades, both in terms of higher transmission system voltages touching 765 kV UHV AC & +/- 800 kV HVDC and physical network size spreading through out India and even 1200 kV UHV AC station has been built on experimental basis for future implementation of the highest system voltage transmission lines. Commensurate with the capacity addition, this extensive network of transmission and distribution developed over the years is being used for evacuation of power generated and utilizing the same by the ultimate consumers. The new capacity additions call for further strengthening of the transmission system. The transmission capacity addition programme is continuously monitored by the Power System Project Monitoring Division in the Central Electricity Authority.

#### **1.2 MONITORING**

The objective of Project Monitoring as enunciated under Section 73(f) of the Electricity Act, 2003 is to promote and assist the timely completion of schemes and projects for improving and augmenting the electricity system. The objective of monitoring is realized through the managerial techniques of “Planning & Control”. The two deliberative elements of Planning & Control are inter-dependent and are essential to every phase of capacity additions in the transmission systems.

The primary responsibility arising under the planning element is the finalization of the Programme of Construction activities of transmission works for the year and laying down the general principles on the basis of which it will operate. These general principles basically involve availability of the finances, land, supply of materials and various statutory clearances to undertake construction works etc. The construction programme for the year is finalized and distributed properly into the four quarters of the year.

#### **1.3 ROLE OF CEA**

The Power System Project Monitoring Division of CEA has been entrusted the responsibility of monitoring the progress of construction activities of the transmission schemes of 220 kV and above in the country which are required for providing the startup power and evacuation of power from the new Generation projects and system strengthening of the Regional Grids to meet the requirements at the consumer end. The progress of the various activities of the transmission schemes under execution by the Central/State/Private Utilities in the Country are closely monitored on weekly/fortnightly/monthly basis for timely commissioning.





The various activities, in case of transmission lines, include monitoring of progress of tower foundations completed and towers erected and stringing of conductor and earth wire completed out of the total length and in case of substations, the activities like acquisition of land, construction of Control Room Building, casting of structural and equipment foundations and erection of equipment, erection of Transformers, erection of Switchgear and Control Panels and commissioning activities are monitored. Assistance in various impending issues like Forest clearance, RoW problems, Railways clearance, Road Highways Clearance, Aviation Clearance etc., is provided. Visits of the officers of PSPM Division, are also made to the sites for on the spot assessment of progress of works and rendering the advice/assistance to project authorities in solving the site problems and in avoiding or reducing time overruns of the on-going transmission schemes.

The site visits by the Officers of the Power System Monitoring Division and the “Review Meetings” held in the Central Electricity Authority with the Utility representatives provide an excellent ground for inter-action to identify bottlenecks and action required to ensure completion of schemes as per targets.

## 1.4 CONTENT

The Report comprises of five chapters. In the present chapter the role of Central Electricity Authority and the monitoring principles are summarily discussed.

**Chapter-2** mainly focuses on the transmission capacity addition during the 12th plan period. During this period about 110370 ckm of EHV lines and transformation capacity of 331214 MVA/MW was added in the country. This chapter also covers salient features of 12<sup>th</sup> plan and brief evaluation of transmission projects.

**Chapter-3** presents the transmission lines and transformation capacity additions (220 kV and above) during various plan periods till the end of 12th plan in India.

**Chapter-4** presents the growth of inter-regional capacity since 6<sup>th</sup> plan and programme for FY 2017-22.

**Chapter-5** presents the detail of transmission system associated with the generation projects commissioned during 12<sup>th</sup> plan.

**CHAPTER -2****ACTUAL TRANSMISSION CAPACITY ADDITIONS DURING 12<sup>th</sup> PLAN (2012-17)**

The programme for construction of transmission works for 12th plan period for evacuation of power from generating stations as well as for system strengthening, 107440 ckm of EHV transmission lines and 282750 MVA/MW transformation capacity was envisaged. The capacity finally added was 110370 ckm EHV lines (220 kV & above) and 331214 MVA/MW transformation capacity (220 kV & above). The details are furnished below;

<b>A. Transmission Line</b>							<b>(All fig. in CKM)</b>
	Transmission line addition during 12 <sup>th</sup> Plan Period(2012-17)						
	12 <sup>th</sup> Plan Target	Achievement					Total 12 <sup>th</sup> Plan
		2012-13	2013-14	2014-15	2015-16	2016-17	
+/-800 kV	7440	0	0	0	3506	2597	6124
765 kV	27000	1209	4637	7548	5601	6995	25990
400 kV	38000	11361	7777	9992	11181	10657	50968
220 kV	35000	4537	4334	4561	7826	6030	27288
<b>Total</b>	<b>107440</b>	<b>17107</b>	<b>16748</b>	<b>22101</b>	<b>28114</b>	<b>26300</b>	<b>110370</b>
<b>B. Substation</b>							<b>(All fig. in MW/MVA)</b>
	Transformation Capacity addition during 12 <sup>th</sup> Plan Period(2012-17)						
	12 <sup>th</sup> Plan Target	Achievement					Total 12 <sup>th</sup> Plan
		2012-13	2013-14	2014-15	2015-16	2016-17	
+/-800 kV	9000				1500	4500	6000
765 kV	149000	24000	34000	38500	19500	26500	142500
+/-500 kV	3750	3750	0	0	0	0	3750
400 kV	45000	16795	9630	14970	17045	31340	89780
220 kV	76000	19120	13700	12084	24804	19476	89184
<b>Total</b>	<b>282750</b>	<b>63665</b>	<b>57330</b>	<b>65554</b>	<b>62849</b>	<b>81816</b>	<b>331214</b>

**Growth during 12<sup>th</sup> Plan period (2012-17)**

The growth of transmission line capacity during the 12<sup>th</sup> Plan period vis-à-vis 11<sup>th</sup> plan period was 142.87%. Similarly, the growth of transformation capacity during same plan period was 180.87%. The year wise and voltage wise performance indices of transmission line and transformation capacity are furnished below:

**Performance indices of addition during 12<sup>th</sup> plan period vis-à-vis 11<sup>th</sup> plan period****(A) Transmission Line**

Voltage Level	11 <sup>th</sup> plan	12 <sup>th</sup> plan	Growth (in %age)
+/- 800 kV	0	6124	-
+/- 500 kV	9432	9432	0
765 kV	5250	31240	495.05
400 kV	106819	157787	47.71
220 kV	135980	163268	20.07
<b>Total</b>	<b>257481</b>	<b>367851</b>	<b>42.87</b>

**(B) Substation**

Voltage Level	11 <sup>th</sup> plan	12 <sup>th</sup> plan	Growth(in %age)
+/- 800 kV	0	6000	-
+/- 500 kV	9750	13500	38.46
765 kV	25000	167500	570.00
400 kV	151027	240807	59.45
220 kV	223774	312958	39.85
<b>Total</b>	<b>409551</b>	<b>740765</b>	<b>80.87</b>

The Utility wise and year wise achievements for 12th plan period are furnished in **table 2.1(a) & 2.1(b)** and also depicted in **bar charts 2.1(a), 2.1(b), 2.2(a), 2.2(b) & 2.3(a), 2.3(b)**. The complete details of the transmission lines and transformation capacity completed in all respects are furnished in **Annexure-2.1(a) & 2.1(b)** respectively.



**Table 2.1(a)**

**TARGETS VS ACHIEVEMENTS OF TRANSMISSION LINES(220kV & ABOVE) DURING  
12<sup>th</sup> PLAN**

<b>(A) TRANSMISSION LINES (CKM)</b>		<b>(upto 03/2017)</b>										
Voltage	Name of the	2012-13		2013- 14		2014-15		2015-16		2016-17		12th Plan
kV	Utility	T	A	T	A	T	A	T	A	T	A	A
<b>+/- 800</b>	Central Sector	0	0	0	0	0	0	0	3506	2597	2618	6124
	State Sector	0	0	0	0	0	0	0	0	0	0	0
	Private sector	0	0	0	0	0	0	0	0	0	0	0
	<b>Total (All India)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3506</b>	<b>2597</b>	<b>2618</b>	<b>6124</b>
<b>+/-500</b>	Central Sector	0	0	0	0	0	0	0	0	0	0	0
	Private Sector	0	0			0	0	0	0	0	0	0
	<b>Total (All India)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>765</b>	Central Sector	1913	1209	2585	3850	4088	5912	4204	4324	3123	5331	20626
	State Sector	0	0	426	426	0	3	0	0	750	337	766
	Private sector	0	0	0	361	2463	1633	1257	1277	1313	1327	4598
	<b>Total (All India)</b>	<b>1913</b>	<b>1209</b>	<b>3011</b>	<b>4637</b>	<b>6551</b>	<b>7548</b>	<b>5461</b>	<b>5601</b>	<b>5186</b>	<b>6995</b>	<b>25990</b>
<b>400</b>	POWERGRID	4454	5511	3892	2940	2955	3066	3943	6009	3642	3687	21213
	DVC	523	0	311	138	0	0	0	0	311	0	138
	NTPC LTD	0	0	0	0	0	108	0	0	0	0	108
	<b>TOTAL(CS)</b>	<b>4977</b>	<b>5511</b>	<b>4203</b>	<b>3078</b>	<b>2955</b>	<b>3174</b>	<b>3943</b>	<b>6009</b>	<b>3953</b>	<b>3687</b>	<b>21459</b>
	Delhi	0	0	0	0	0	0	0	0	0	0	0
	Himachal Pradesh	0	0	0	0	0	0	0	0	1	0	0
	Haryana	147	147	48	42	0	0	0	15	0	50	254
	J&K	0	0	0	0	0	0	0	0	12	0	0
	Punjab	204	379	664	317	319	904	0	0	0	0	1600
	Rajasthan	0	114	473	260	213	179	1060	172	884	308	1033
	Uttar Pradesh	522	0	514	518	66	207	200	5	88	234	964
	Uttrakhand	0	0	0	0	0	0	28	0	28	28	28
	<b>TOTAL (NR)</b>	<b>873</b>	<b>640</b>	<b>1699</b>	<b>1137</b>	<b>598</b>	<b>1290</b>	<b>1288</b>	<b>192</b>	<b>1013</b>	<b>620</b>	<b>3879</b>
	Chattisgarh	822	494	270	593	116	0	662	116	658	657	1860
	Daman-UT	0	0	0	0	0	0	0	0	0	0	0
	DNH-UT	0	0	0	0	0	0	0	0	0	0	0
	Gujarat	136	145	813	117	700	625	438	671	199	200	1758
	Goa	0	0	0	0	0	0	0	0	0	0	0
	Madhya Pradesh	288	105	416	400	228	225	0	0	0	0	730
	Maharashtra	5	159	393	105	493	417	393	383	271	191	1255



	<b>TOTAL (WR)</b>	<b>1251</b>	<b>903</b>	<b>1892</b>	<b>1215</b>	<b>1537</b>	<b>1267</b>	<b>1493</b>	<b>1170</b>	<b>1128</b>	<b>1048</b>	<b>5603</b>
	Andhra Pradesh	524	804	420	262	834	330	292	713	976	510	2619
	Karnataka	358	358	0	0	0	0	0	33	721	0	391
	Kerala	0	0	0	0	0	0	0	0	0	0	0
	Telangana	0	0	0	0	0	0	0	524	632	597	1121
	Tamilnadu	448	363	188	198	1434	1321	686	801	918	1017	3700
	<b>TOTAL (SR)</b>	<b>1330</b>	<b>1525</b>	<b>608</b>	<b>460</b>	<b>2268</b>	<b>1651</b>	<b>978</b>	<b>2071</b>	<b>3247</b>	<b>2124</b>	<b>7831</b>
	Bihar	0	0	0	0	0	0	0	0	0	0	0
	Orissa	100	0	0	0	0	0	0	418	0	0	418
	West Bengal	87	8	91	91	0	0	0	192	89	7	298
	Jharkhand	0	0	0	0	0	0	0	0	322	0	0
	<b>TOTAL (ER)</b>	<b>187</b>	<b>8</b>	<b>91</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>610</b>	<b>411</b>	<b>7</b>	<b>716</b>
	Assam	0	0	0	0	0	7	0	0	0	0	7
	Meghalaya	0	9	0	0	0	0	0	4	0	0	13
	<b>TOTAL(NER)</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>20</b>
	<b>Total (SS)</b>	<b>3641</b>	<b>3085</b>	<b>4290</b>	<b>2903</b>	<b>4403</b>	<b>4215</b>	<b>3759</b>	<b>4047</b>	<b>5799</b>	<b>3799</b>	<b>18049</b>
	<b>Private Sector</b>	<b>1398</b>	<b>2765</b>	<b>2486</b>	<b>1796</b>	<b>1442</b>	<b>2603</b>	<b>1466</b>	<b>1125</b>	<b>762</b>	<b>3171</b>	<b>11460</b>
	<b>Total (All India)</b>	<b>10016</b>	<b>11361</b>	<b>10979</b>	<b>7777</b>	<b>8800</b>	<b>9992</b>	<b>9168</b>	<b>11181</b>	<b>10514</b>	<b>10657</b>	<b>50968</b>
220	POWERGRID	0	248	56	15	0	19	0	187	78	33	502
	DVC	443	86	406	0	381	74	867	212	0	0	372
	<b>Total (CS)</b>	<b>443</b>	<b>334</b>	<b>462</b>	<b>15</b>	<b>381</b>	<b>74</b>	<b>867</b>	<b>399</b>	<b>78</b>	<b>33</b>	<b>874</b>
	Chandigarh	0	0	0	0	0	0	0	0	0	0	0
	Delhi	43	0	51	12	43	33	28	54	12	41	140
	Himachal Pradesh	55	0	39	24	16	0	43	13	49	59	96
	Haryana	243	291	378	126	286	84	487	332	175	197	1030
	J&K	189	23	0	85	164	0	60	0	0	0	108
	Punjab	170	321	435	437	288	414	725	315	645	374	1861
	Rajasthan	701	565	338	541	890	1170	415	653	356	623	3552
	Uttar Pradesh	543	91	256	99	462	656	868	493	117	795	2134
	Uttarakhand	37	35	0	0	39	39	0	0	0	56	130
	<b>Total (NR)</b>	<b>1981</b>	<b>1326</b>	<b>1497</b>	<b>1324</b>	<b>2188</b>	<b>2396</b>	<b>2626</b>	<b>1860</b>	<b>1354</b>	<b>2145</b>	<b>9051</b>
	Chattisgarh	0	28	114	118	405	168	208	237	155	0	551
	Daman-UT	0	0	0	0	0	0	0	0	0	0	0
	DNH-UT	0	0	0	0	0	0	0	0	0	0	0
	Gujarat	445	1212	246	626	214	312	540	1206	613	813	4169
	Goa	20	0	20	20	0	0	0	0	0	0	20
	Madhya Pradesh	88	246	77	126	204	332	178	178	286	184	1066
Maharashtra	302	761	445	612	559	326	1086	1445	699	686	3830	





Table 2.1(b)

**TARGETS V/S ACHIEVEMENTS OF SUB STATIONS(220kV & ABOVE) DURING  
12th PLAN**

<b>(A) SUB-STATIONS (MVA/MW)</b>						<b>(up to 03/2017)</b>						
Voltage	Name of the	2012- 13		2013-14		2014-15		2015-16		2016-17		12 <sup>th</sup> Plan
kV	Utility	T	A	T	A	T	A	T	A	T	A	A
<b>+/- 800</b>	Central Sector	0	0	0	0	0	0	1500	1500	1500	4500	6000
	State Sector	0	0	0	0	0	0	0	0	0		0
	Private Sector	0	0	0	0	0	0	0	0	0		0
	<b>Total (All India)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1500</b>	<b>1500</b>	<b>1500</b>	<b>4500</b>	<b>6000</b>
<b>+/- 500</b>	Central Sector	0	1250	0	0	0	0	0	0			1250
	Private Sector	0	2500	0	0	0	0	0	0			2500
	<b>Total (All India)</b>	<b>0</b>	<b>3750</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3750</b>
<b>765</b>	Central Sector	8500	24000	12000	30000	18000	22500	16500	18000	10500	19500	114000
	State Sector	1000	0	0	1000	1500	7000	1500	1500	1500	4500	14000
	Private Sector	0	0	0	3000	10500	9000	0	0	2000	2500	14500
	<b>Total (All India)</b>	<b>9500</b>	<b>24000</b>	<b>12000</b>	<b>34000</b>	<b>30000</b>	<b>38500</b>	<b>18000</b>	<b>19500</b>	<b>14000</b>	<b>26500</b>	<b>142500</b>
<b>400</b>	PGCIL	2330	7940	7305	6610	4565	7400	7830	5560	9890	11435	38945
	DVC	0	0	0	0	0	0	0	0			0
	<b>TOTAL(CS)</b>	<b>2330</b>	<b>7940</b>	<b>7305</b>	<b>6610</b>	<b>4565</b>	<b>7400</b>	<b>7830</b>	<b>5560</b>	<b>9890</b>	<b>11435</b>	<b>38945</b>
	Delhi	315	0	0	0	0	630	0	685			1315
	Himachal Pradesh	0	0	0	0	0	0	0	0			0
	Haryana	630	945	0	315	0	0	0	0			1260
	J&K	0	0	0	0	0	0	0	0			0
	Punjab	630	1000	630	630	1000	1260	1000	0	1000	1000	3890
	Rajasthan	0	0	1890	0	630	630	1815	315	1815	315	1260
	Uttar Pradesh	0	75	0	185	0	185	1480	1870	630	815	3130
	Uttarakhand	630	0	0	0	0	0	630	75	630	815	890
	<b>TOTAL (NR)</b>	<b>2205</b>	<b>2020</b>	<b>2520</b>	<b>1130</b>	<b>1630</b>	<b>2705</b>	<b>4925</b>	<b>2945</b>	<b>4075</b>	<b>2945</b>	<b>11745</b>
	Chattisgarh	0	0	0	0	0	0	630	630	630		630
	Daman-UT	0	0	0	0	0	0	0	0			0
	DNH-UT	0	0	0	0	0	0	0	0			0
	Gujarat	0	0	630	630	0	315	1630	1815	1815	2315	5075
	Goa	0	0	0	0	0	0	0	0			0
	Madhya Pradesh	315	315	630	945	315	945	630	630			2835
	Maharashtra	1000	3600	1000	0	1000	0	1500	1315	1500	2815	7730
	<b>TOTAL (WR)</b>	<b>1315</b>	<b>3915</b>	<b>2260</b>	<b>1575</b>	<b>1315</b>	<b>1260</b>	<b>4390</b>	<b>4390</b>	<b>3945</b>	<b>5130</b>	<b>16270</b>
Andhra Pradesh	630	1145	0	0	0	315	0	315	630	2705	4480	



	Karnataka	0	0	1000	0	1000	1000	0	0			1000
	Kerala	0	0	315	0	315	315	0	0			315
	Tamilnadu	0	200	0	0	515	1975	1930	0	1845	4290	6465
	Telangana	0	0	0	0	0	0	315	945	1260	630	1575
	<b>TOTAL (SR)</b>	<b>630</b>	<b>1345</b>	<b>1315</b>	<b>0</b>	<b>1830</b>	<b>3605</b>	<b>2245</b>	<b>1260</b>	<b>3735</b>	<b>7625</b>	<b>13835</b>
	Bihar	0	0	0	0	0	0	0	0			0
	Orissa	630	0	0	0	0	0	0	630			630
	West Bengal	1260	1260	0	0	0	0	0	0	630	945	2205
	Jharkhand	0	0	0	0	0	0	0	0			0
	<b>TOTAL (ER)</b>	<b>1890</b>	<b>1260</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>630</b>	<b>630</b>	<b>945</b>	<b>2835</b>
	Assam	0	0	0	315	0	0	0	630			945
	Arunachal Pradesh	0	0	0	0	0	0	0	0			0
	Meghalaya	0	315	0	0	0	0	0	0	630	0	315
	<b>Total (NER)</b>	<b>0</b>	<b>315</b>	<b>0</b>	<b>315</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>630</b>	<b>630</b>	<b>0</b>	<b>1260</b>
	<b>Total (SS)</b>	<b>6040</b>	<b>8855</b>	<b>6095</b>	<b>3020</b>	<b>4775</b>	<b>7570</b>	<b>11560</b>	<b>9855</b>	<b>13015</b>	<b>16645</b>	<b>45945</b>
	<b>Private Sector</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1630</b>	<b>2000</b>	<b>3260</b>	<b>4890</b>
	<b>Total (All India)</b>	<b>8370</b>	<b>16795</b>	<b>13400</b>	<b>9630</b>	<b>9340</b>	<b>14970</b>	<b>19390</b>	<b>17045</b>	<b>24905</b>	<b>31340</b>	<b>89780</b>
220	POWERGRID	0	490	390	0	0	460	0	560			1510
	DVC	380	790	0	0	0	0	0	310			1100
	<b>Total (CS)</b>	<b>380</b>	<b>1280</b>	<b>390</b>	<b>0</b>	<b>0</b>	<b>460</b>	<b>0</b>	<b>870</b>	<b>0</b>	<b>0</b>	<b>2610</b>
	Chandigarh	0	0	0	0	0	0	0	0			0
	Delhi	880	680	720	0	520	320	100	400	100	840	2240
	Himachal Pradesh	189	300	63	0	31	0	31.5	126	63	131	557
	Haryana	1200	1800	700	500	900	300	1020	500	400	600	3700
	J&K	150	160	0	0	320	0	320	0	320		160
	Punjab	800	2540	620	2420	400	1220	1290	1090	160	1760	9030
	Rajasthan	800	1060	920	1040	200	1830	1040	2500	200	1060	7490
	Uttar Pradesh	1160	1700	1460	1360	1040	1469	840	3610	520	3190	11329
	Uttarakhand	320	100	0	0	320	320	0	120			540
	<b>TOTAL (NR)</b>	<b>5499</b>	<b>8340</b>	<b>4483</b>	<b>5320</b>	<b>3731</b>	<b>5459</b>	<b>4642</b>	<b>8346</b>	<b>1763</b>	<b>7581</b>	<b>35046</b>
	Chattisgarh	360	320	320	160	480	840	0	160			1480
	Daman-UT	0	0	0	0	0	0	0	0			0
	DNH-UT	0	0	0	0	0	0	0	0			0
	Gujarat	700	2250	1200	1660	800	1190	950	3260		1700	10060
	Goa	150	0	150	150	0	0	0	0			150
	Madhya Pradesh	320	1120	320	960	960	1440	960	1800	320	1980	7300
	Maharashtra	1400	1700	700	1800	500	125	300	3400	200	1675	8700
	<b>TOTAL (WR)</b>	<b>2930</b>	<b>5390</b>	<b>2690</b>	<b>4730</b>	<b>2740</b>	<b>3595</b>	<b>2210</b>	<b>8620</b>	<b>520</b>	<b>5355</b>	<b>27690</b>
	Andhra Pradesh	780	1410	320	260	420	420	400	620	200	260	2970
Karnataka	1100	700	400	300	100	200	1100	945	600	700	2845	
Kerala	400	400	0	0	0	200	0	0			600	
Tamilnadu	1000	350	700	1110	400	1270	1100	2140	200	1960	6830	

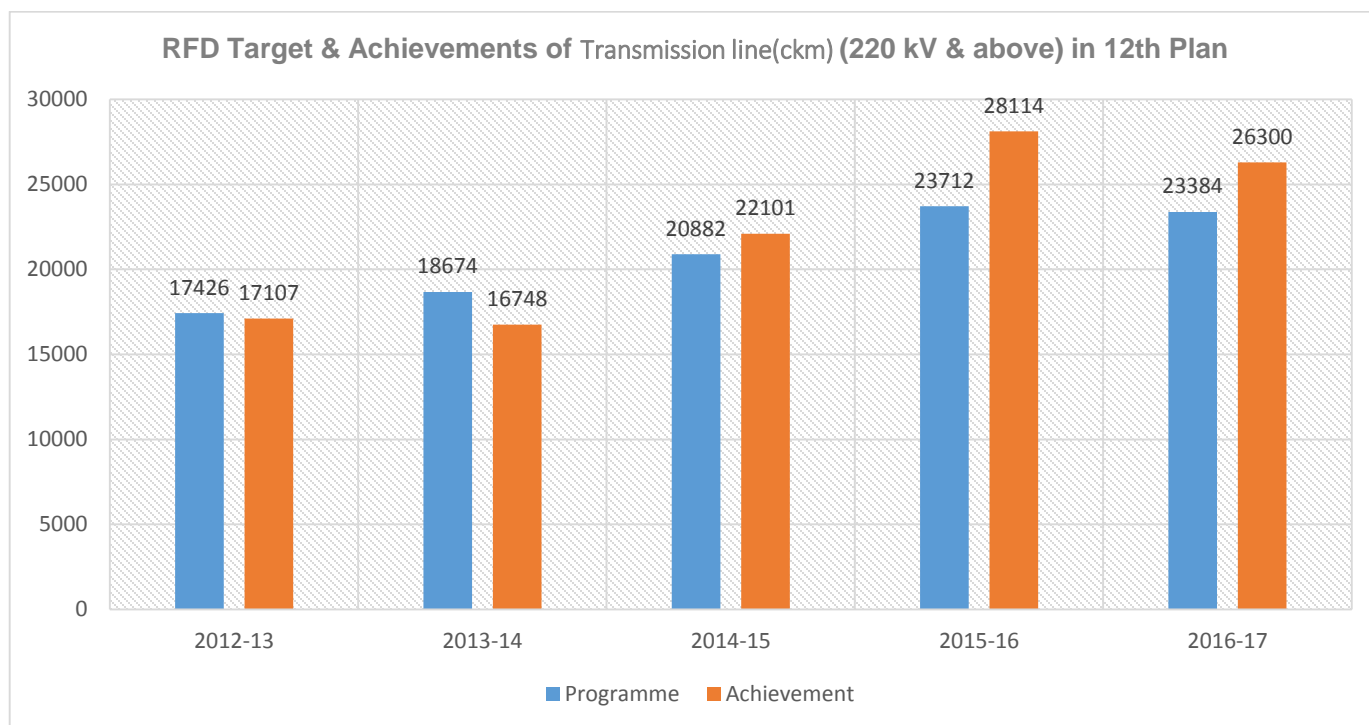




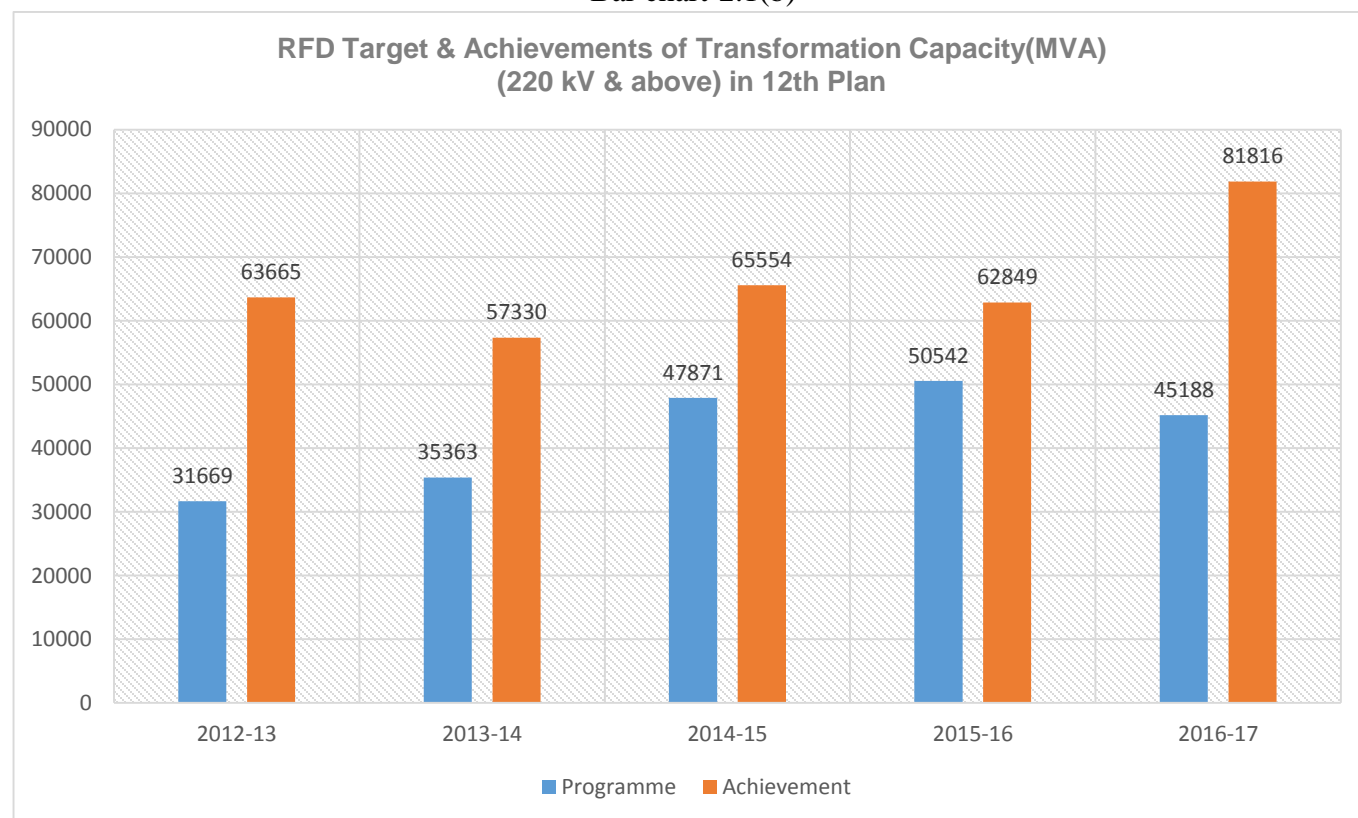
Telangana	0	0	0	0	0	0	320	1053	100	1220	2273
Puducherry	0	0	0	200	0	0	0	0			200
<b>TOTAL (SR)</b>	<b>3280</b>	<b>2860</b>	<b>1420</b>	<b>1870</b>	<b>920</b>	<b>2090</b>	<b>2920</b>	<b>4758</b>	<b>1100</b>	<b>4140</b>	<b>15718</b>
Bihar	900	500	500	700	100	0	200	100	100	480	1780
Orissa	70	110	0	340	200	0	840	480	480	920	1850
West Bengal	640	640	480	640	640	480	640	530	320	800	3090
Jharkhand	0	0	0	0	0	0	0	600	400		600
<b>TOTAL (ER)</b>	<b>1610</b>	<b>1250</b>	<b>980</b>	<b>1680</b>	<b>940</b>	<b>480</b>	<b>1680</b>	<b>1710</b>	<b>1300</b>	<b>2200</b>	<b>7320</b>
Assam	100	0	0	100	200	0	200	400	100		500
Meghalaya	0	0	0	0	0	0	0	100			100
Arunachal Pradesh	0	0	0	0	0		0	0			0
<b>TOTAL (NER)</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>200</b>	<b>0</b>	<b>200</b>	<b>500</b>	<b>100</b>	<b>0</b>	<b>600</b>
<b>Total (SS)</b>	<b>13419</b>	<b>17840</b>	<b>9573</b>	<b>13700</b>	<b>8531</b>	<b>11624</b>	<b>11652</b>	<b>23934</b>	<b>4783</b>	<b>19276</b>	<b>86374</b>
<b>Private Sector</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200</b>	<b>200</b>
<b>Total (All India)</b>	<b>13799</b>	<b>19120</b>	<b>9963</b>	<b>13700</b>	<b>8531</b>	<b>12084</b>	<b>11652</b>	<b>24804</b>	<b>4783</b>	<b>19476</b>	<b>89184</b>
<b>Grand Total</b>	<b>31669</b>	<b>63665</b>	<b>35363</b>	<b>57330</b>	<b>47871</b>	<b>65554</b>	<b>50542</b>	<b>62849</b>	<b>45188</b>	<b>81816</b>	<b>331214</b>
T:- Target											
A:- Achievement Commissioned/Ready for Commissioning											



Bar chart-2.1(a)

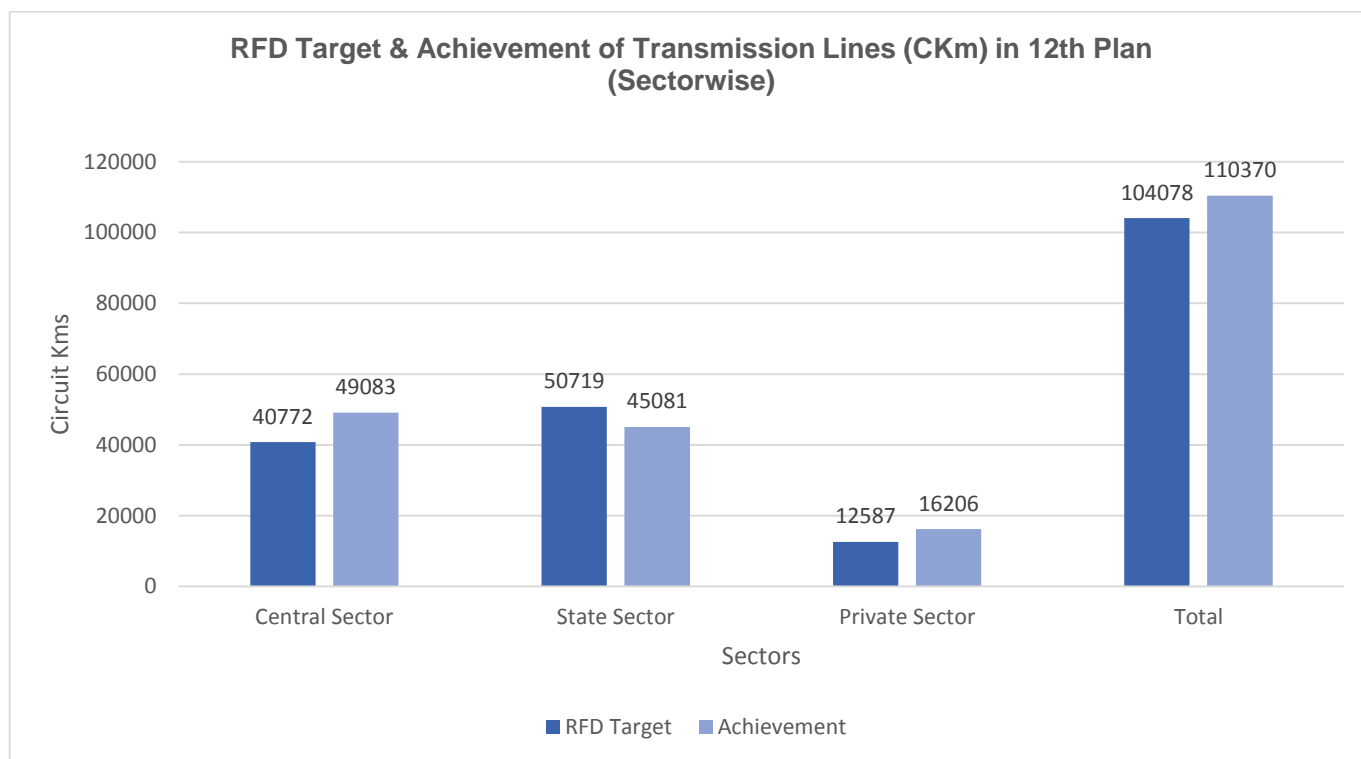


Bar chart-2.1(b)

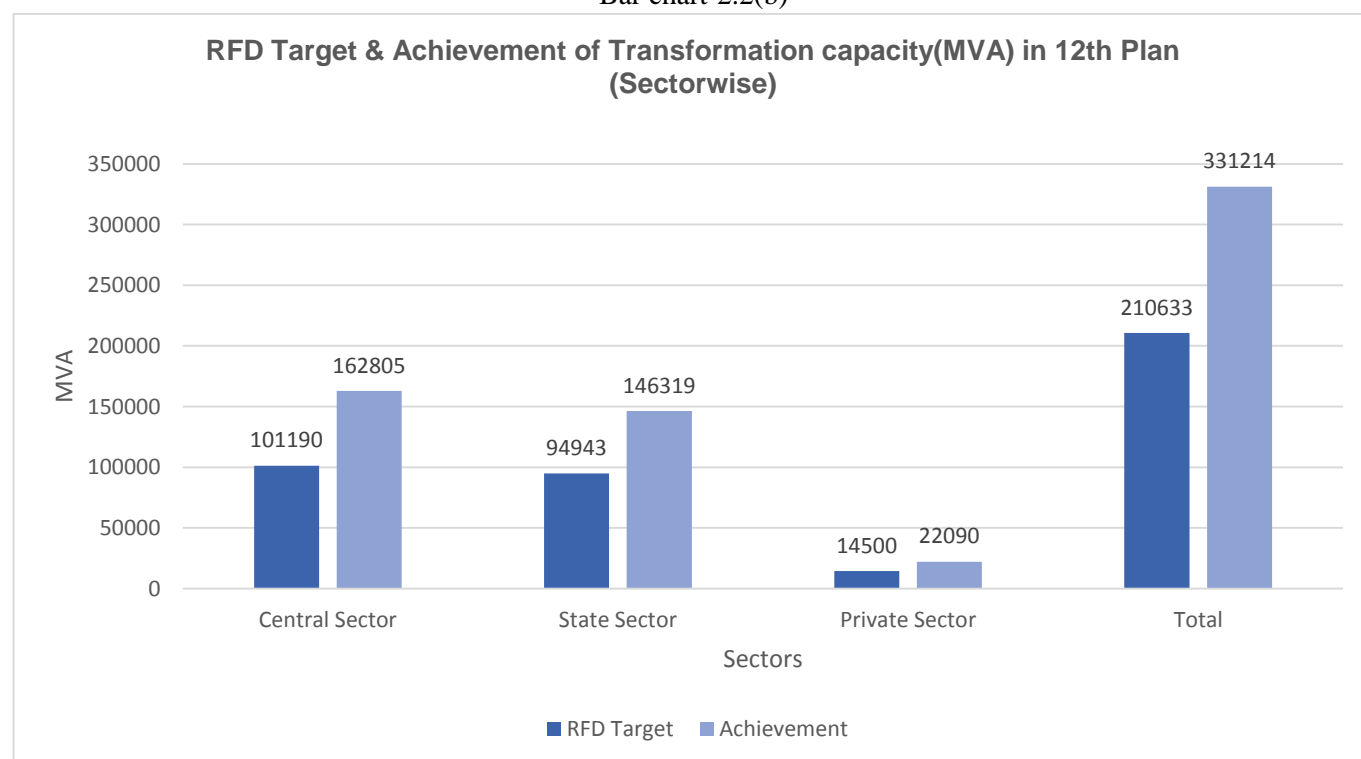




Bar chart-2.2(a)

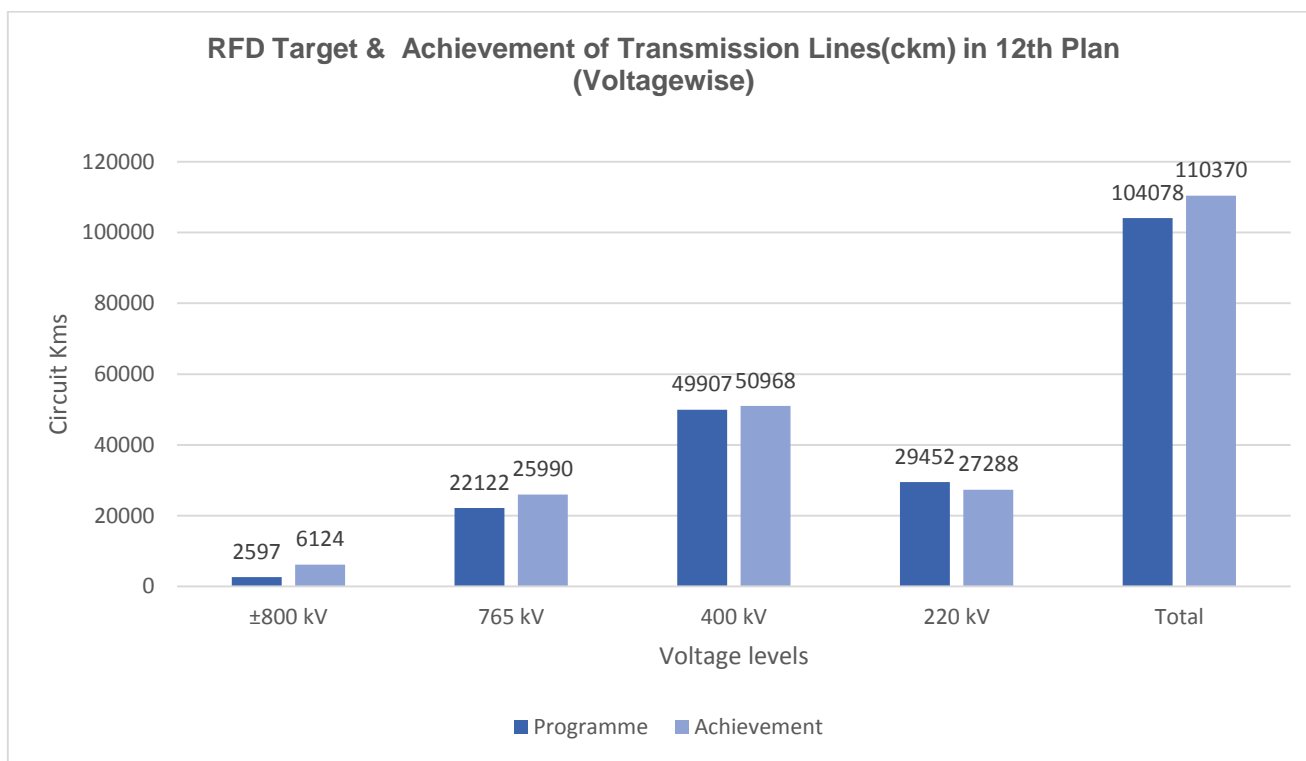


Bar chart-2.2(b)

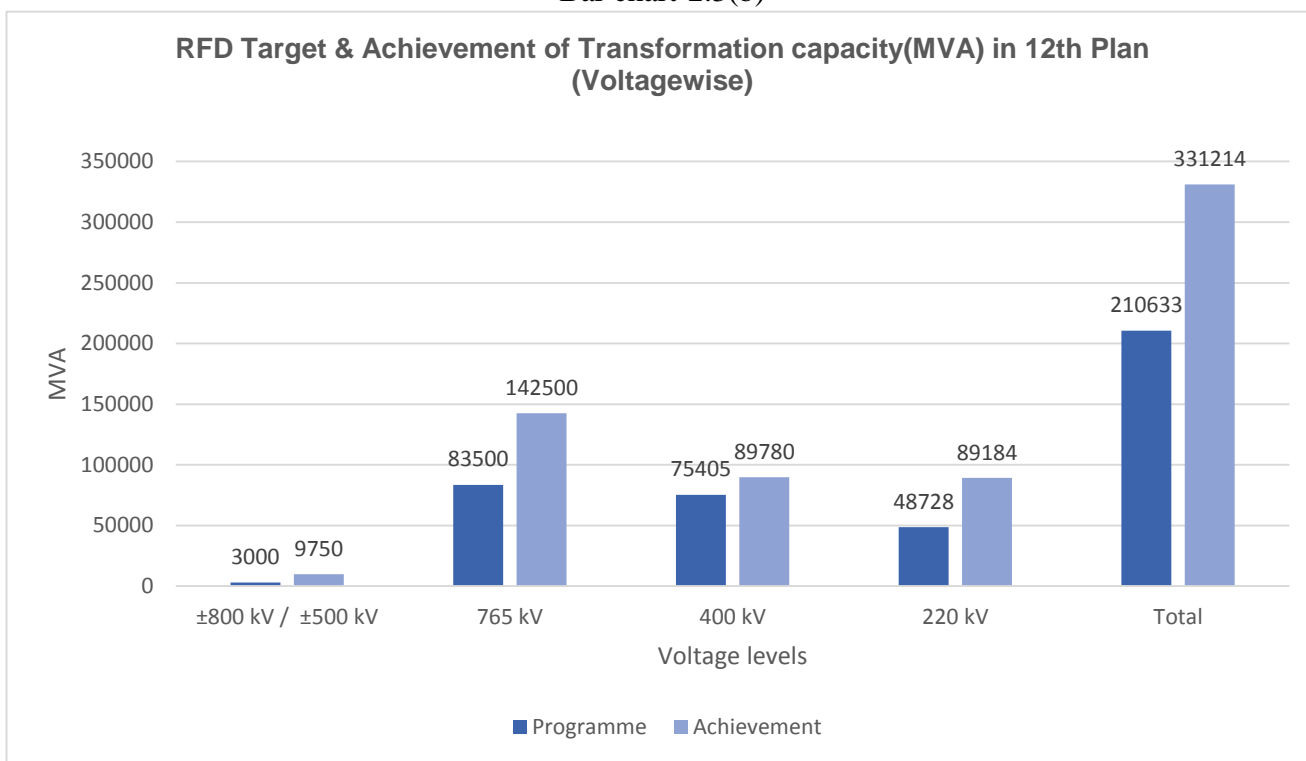




Bar chart-2.3(a)



Bar chart-2.3(b)





## Salient features of 12th Plan

The emergence of +/- 800 kV voltage level in the Indian Power System was an important milestone during this plan period as following HVDC lines (6124 ckm) alongwith bipoles (6000 MW) were commissioned;

- (i) +/- 800 kV Agra – Biswanath charyali HVDC line, 3000 MW bipole (P1, P2)
- (ii) LILO of +/- 800 kV Agra – Biswanath charyali HVDC line at Alipurwar, 1500 MW bipole(P3)
- (iii) +/- 800 kV Champa – Kurushetra HVDC lines with 1500 MW bipole(P1)

A remarkable growth in 765 kV transmission network was another important milestone as 25950 ckm of 765 kV transmission line and 141815 MVA of transformation capacity were added during this period (2012-17) which stands a growth of 495.05% and 570% in transmission line and transformation capacity addition respectively. Some other noticeable achievements in transmission sector during 12<sup>th</sup> plan period is given as under;

- A 1200 kV UHV AC station was built at Bina on experimental basis for future implementation of the highest system voltage transmission lines in India and construction of a 1200 kV transmission line from Wardha to Aurangabad (initially to be charged at 400 kV level) was taken up by PGCIL. This line is expected to complete by Feb'2018.
- With the rapid growth in 765 kV transmission network and commissioning of +/- 800 kV HVDC line between WR-NR and NER-NR, the inter-regional transmission capacity was aggregated to 75050 MW (end of 12<sup>th</sup> plan) from 27150 MW (end of 11<sup>th</sup> plan) which stands 170% growth in the inter-regional power transmission capacity. WR-SR AC link i.e 765 kV Raichur- Solapur S/C line of PGCIL commissioned in Dec' 2013 and national grid operated at single frequency and goal of one nation one grid achieved. Details of existing IR links at the end of 12<sup>th</sup> plan and planned during year 2017-22 is given at **Annexure-2.2**
- During this period, priority was accorded to evacuation system for IPPs through LTOA and 11 numbers high capacity transmission corridor(HCTC) were planned. Implementation of all HCTCs was taken up in the beginning of 12<sup>th</sup> plan with the commissioning schedule in 12<sup>th</sup> plan except HCTC-IX, which was scheduled to commission by April 2018. All the HCTCs have been completed except few transmission lines covered under HCTC-V, VII and VIII where progress have severely been affected due to right of ways issues. These transmission lines are traversing through villages near Madhugiri, tumkur, Bangalore Aurangabad, Pune, Nagpur, Kudus district. Details of high capacity transmission corridors (HCTC) is attached at **Annexure-2.3a** and also depicted at **Annexure 2.3b**.
- Ministry of Power had initiated implementation of inter-state transmission schemes(ISTS) through tariff based competitive bidding(TBCB) route. First transmission project i.e “**Scheme for enabling import of NER/ER surplus by NR**” was awarded to **ENICL (A subsidiary of Sterlite Technology)** in March' 2010 and project was commissioned in Nov'2014. So far 37 transmission projects have been awarded through TBCB route. Out



of 37 projects, 13 projects have been commissioned. Details of transmission projects and their progress is given at **Annexure-2.4**.

- Ministry of Power requested MoEF for following relaxation to avoid delay in granting of forest clearance;
  - *Exemption / Relaxation under Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) (FRA) Act 2006 for Transmission projects;*
  - *Permission to start work after Stage-I approval;*
  - *Enhancement of RMoEF powers for approval.*

MoEF agreed and notified following provisions;

- *Working permission after Stage-I clearance was granted vide circular dated 08.08.2014.*
- *Processing of forest proposals for liner projects at Regional Offices of MoEF&CC irrespective of forest area involved was granted vide Gazette Notification No. 10.10.2014.*
- *Delinking the process of Forest clearance from FRA upto Stage-I clearance was issued vide Gazette Notification No 03.06.2017.*

Besides above provisions, MoEF accepted MoP's suggestion to enhance upper limit of 40 ha for forest proposal clearance by RMoEF and MoEF granted complete power to RMoEF for approval under Forest(Conservation) Act 1980 to linear projects including transmission project irrespective of forest area involvement directly without referring to MoEF, New Delhi. MoEF also granted exemption from arranging equivalent area of non-forest land for raising compensatory afforestation beyond 220 kV line and irrespective of implementing agency. Instead Compensatory Afforestation could now be raised on degraded forest land double the area diverted forest land. With the above mentioned modifications in Forest(Conservation) Act, 1980, the procedure in granting forest clearance has got simplified and resulting considerable time saving in forest clearance approvals.

- A guideline was issued by MoP/GoI vide letter dtd 15.10.2015 for payment of compensation towards damages in regard to Right of Ways for transmission line(66 kV & above), which recommended (1) compensation @85% of land value as determined by district magistrate or any authority based on Circle rate/Guideline value/Stamp Act for tower base area(between four legs) (2) Compensation towards diminution of land value in the width of Right of Way(RoW) Corridor due to laying of transmission line and imposing certain restriction would be decided by the States as per categorization/type of land in different places of States, subject to a maximum of 15% of land value as determined based on Circle rate/ Guideline value/Stamp act rates. This compensation was payable in



addition to crop damage compensation. Copy of letter dated 15.10.2015 is attached at **Annexure-2.5**.

- To connect strategical important ladakh region of J&K state with NR grid, a transmission project covering Srinagar(Alusteng) - Leh 220 kV S/C line alongwith 220/66 kV substation at Drass, Kargil, Khalasti and Leh and 66 kV interconnecting line was taken up and the transmission project could not be completed by its schedule date i.e Sept' 2017 due to tough terrain, snow bound area and limited working season. Project is now expected to be completed by Dec' 2018. Details of transmission project is attached at **Annexure-2.6**.
- To improve transmission and distribution network in the states of NER including Sikkim state, implementation of 2 nos. T&D schemes i.e (1) North – Eastern Region Power System Improvement Scheme (2) Comprehensive Scheme of Transmission & Distribution in Arunachal Pradesh and Sikkim, was taken up and both the T&D schemes are scheduled to complete by Dec 2018. Details of T&D schemes is given at **Annexure-2.7**.
- To simplify procedure of railways track crossing clearance to transmission project, a committee under Joint Secretary(Transmission), MoP was set up in Aug'2016 which suggested development of web portal for online submission/process/approval of railway clearance. Web portal is under development by railways.

### **Brief evaluation of transmission construction regime during 12th plan**

In spite of the fact that programme envisaged during 12th plan period has been met, yet there still remains some inadequacies/missing links/ bottlenecks at the end of the 12th plan from the planning perspective and thus affecting the stability of the Power System network. A report indicating critical transmission project is enclosed at **Annexure 2.8**. The main constraints dominated in 12th plan for transmission works are as follows:

1. Delay in the commissioning of the generating projects.
2. Right of ways issue
3. Delays in forest clearance
4. Delays in railways track crossing clearance
5. Delays in highways crossing clearances
6. Delays in civil/defence airport clearance
7. Delay in land acquisition for substation
8. Contratual issues/ Abandoning site by contractor.
9. National Highways crossing clearances
10. Civil/Defence aviation clearance
11. Dropping of transmission works by the utilities
12. Inter utility coordination problems.
13. Court Cases
14. Problem of transportation of heavy equipments in hilly areas.
15. Problem of theft of tower parts and conductor etc.
16. Shortage of equipment manufacturers.
17. Delay in supply of equipments.



18. Shortage of skilled and semi skilled man power.
19. Shortage of T&P.
20. Limited testing facility for transmission towers
21. Delay in approval of Design/Drawings
22. Delay in custom clearance of imported equipments
23. Inadequate number of bidders in NER
24. Delay in acquiring land for erection of transmission tower in J&K, Sikkim and Arunachal Pradesh
25. Natural calamities like extreme hot weather, flood and earthquake
26. Law & order issue

Mostly, planned transmission system for power evacuation completed in time matching with the respective generation projects and in case of delay due to reasons as mentioned above, an interim connectivity was made available for evacuation of power from generation project till the completion of planned transmission system. It was observed that various generation projects such as Parbati-II HEP, Uhl-III HEP, Sanj HEP, Thottiyar HEP, Pallvasal HEP, Pullichintala HEP, Maheshwar HEP, Teesta-VI HEP, Kameng HEP, Pare HEP, Vishnugad Pipalkoti HEP, Tidong HEP, Tapovan Vishnugad HEP, Swara Kuddu HEP, Singoli Bhatwari HEP, Phata Byung HEP, Subangshri HEP, Kishanganga HEP, Tural HEP, Suratgarh STPS, Essar(Gujarat) TPS, Essar(Jharkhand) TPS, Matrishri Usha TPS, Tori TPS, which were planned for commissioning during 12<sup>th</sup> Plan, got delayed and accordingly construction of associated transmission system was deliberately delayed by respective transmission utilities.

In last few years, the land prices in and around urban area has increased enormously due to spurt in demand for residential/housing colonies, market complex and real estate development. In case transmission projects (lines & Substation) are erected on these land or passes through nearby land, the value of land diminishes as there is a restriction for erection of permanent structure in the corridor of EHV transmission line to avoid electrical hazard. Usable land area also reduces as number of transmission lines terminate at substation. While finalising route of transmission lines and location for setting up substation, the route of transmission line and location for substation is planned in such a way that the agriculture/private lands, national parks, wild life/sanctuary forest land, residential colonies etc are avoided and line traverses through degraded/ waste land and substation are set up away from urban/village on degraded/waste land but some time it becomes inevitable to avoid agriculture/private land/forest land due to unavailability of alternate route or economical reasons. Land owners in urban/village are not allowing erection of transmission projects(lines & substation) on their lands and raise objection/resistance or demand exorbitant/unreasonable compensation for allowing erection of transmission projects(lines & substation) in their land. More and more incidences of obstruction / stoppage of construction work, manhandling with project managers, labours and surveyor etc were noticed in last few years in every state. There are some pockets(locations/village/town) in the country where it has become very difficult to execute transmission projects. These locations fall in western Uttra Pradesh (Bagpat, Saharnpur), Western Maharashtra (Pune, Nagpur, Wardha, Aurangabad, Kudus, New Mumbai, Nasik etc), Karnatak (Near Bangalore, Madhugiri, Tumkur), West Bengal (near Siliguri, near Rajarhat), Andhra Pradesh (East Godawari), Mizoram (near Aizawl) Keral (Kollam, Pathnamthitta, Kottayam). Although the right of ways issues is getting resolved with the intervention of District Authorities but cases of inadequate compensation are being noticed. There is no provision for land compensation and only crop damage compensation is payable as per EA,2003. To minimize these anomalies and to compensate diminution





of land value, a guideline was issued by Ministry of Power on 15.10.2015 for payment of compensation towards damages in regard to Right of Ways for transmission line, which had recommended (1) compensation @85% of land value as determined by district magistrate or any authority based on Circle rate/Guideline value/Stamp Act for tower base area(between four legs) impact severely due to installation of tower/pylon structure (2) Compensation towards diminution of land value in the width of Right of Way(RoW) Corridor due to laying of transmission line and imposing certain restriction would be decided by the States as per categorization/type of land in different places of States, subject to a maximum of 15% of land value as determined based on Circle rate/ Guideline value/Stamp act rates. This compensation is payable in addition to crop damage compensation. Some state authorities such as Karnataka, Kerala, Gujarat, Maharashtra, Chhattisgarh, Madhya Pradesh, Assam etc have started paying the compensation based on these recommendations and other states are yet to follow. Details of some of the major inter/intra state transmission lines where progress got hampered/stopped due to severe row issues during 12<sup>th</sup> plan, is given at **table 2.2**.

Although procedure for granting approval has been simplified with corrective measures such as online submission of forest proposal, putting transmission projects in linear projects category, empowering RMoEF in granting approval irrespective of forest area involved etc taken by MoEF during early of 12<sup>th</sup> plan. The time period taken in processing forest proposal and granting approval has been reduced considerably. In the beginning of 12<sup>th</sup> plan, it was observed that progress of many transmission projects were held up due to pending forest clearance and the transmission projects, where wild life/reserve/protected forest was involved, were worst affected. Delays in clearance from State Board of Wild Life(SBWL) and National Board of Wild Life(NBWL), non availability of degraded/non forest land, delays in identifying degraded forest land, delays in obtaining NOC from Distt Magistrate for compliance of FRA, delay in working permission/ tree cutting by forest department etc were main reasons for delays. Detail of major transmission projects where approval took more that 500 days, is given at **table 2.3**.

Progress of some transmission projects was also affected due to delay in railways clearance to transmission projects for crossings railway track. This delay was mainly occurred due to unavailability of traffic block or delay in approval of traffic blocks by Railways. The issue of railways clearance to transmission projects was also raised by many State authorities in Power Minister Conference held on 16<sup>th</sup> -17<sup>th</sup> June, 2016 at Goa wherein it was decided to evolve institutional mechanism for approval of railways crossing. Accordingly, a committee was constituted under chairmanship of JS(T), MoP which discussed the issue with the representatives of Railways and transmission utilities. On the suggestion of committee, a web portal is under development by Railways for online submission as well as processing of proposal. As per JPO submitted by Railways, approval would be granted within 64 days from date of submission of application, fees, documents, drawings, fee etc. A list of pending railways approval is given at **table 2.4**.

The issues, which are discussed above, were the main reason for delay of transmission projects which led to court cases and contractual or litigation. Few contractors in Haryana, Maharashtra, UP, Uttrakhand, Gujarat, West Bengal, Rajasthan abandoned the projects and transmission utilities had to retender the works. Some other issues such as delay in acquisition of land for substation, highways crossing, aviation clearance, theft of tower material & conductor, inadequate tower testing facilities, delay in supply of tower material and substation main equipments like transformer, circuit breaker etc, inadequate bidder in NER for execution of T&D projects, shortage of manpower for erection of transmission line, acquisition of land for tower footing in J&K, Sikkim, Arunachal Pradesh, extreme



weather condition, flood in Bihar, earthquake in Sikkim etc had also seriously impacted on the progress of transmission projects during 12<sup>th</sup> plan.

**Table 2.2****Details of transmission projects where progress affected/stopped**

S N	Name of the Project	Length of line (ckm)	State	Schedule date of completion	Actual/anticipated date of completion	Delay (month)
1	Edamon (KSEB) - Muvattupuzha (PG) 400 kV D/C line of PGCIL	297	Kerala	Nov,2008	Sept,2018	118
2	LILO of Neelamangla - Hoddy line and LILO of Somanhally - Hoddy at Yelahanka of PGCIL	34	Karnataka	Jul,2012	Dec,2017	65
3	Angul – Jharsauguda 765 kV D/C line of PGCIL	590	Odisha	Dec,15	Mar,2018	27
4	Salem Pooling Station - Madhugiri Pooling Station 765 kV S/C line of PGCIL	219	Karnataka	Dec,15	Mar,2018	27
5	Dharmapuri (Salem New) – Somanahalli 400 kV D/C Line of PGCIL	244	Karnataka	Aug, 2014	Dec,2017	40
6	LILO of Lonikhand (MSETCL)- Kalwa 400 kV line at Navi Mumbai of PGCIL	16	Maharashtra	Sept,2010	Mar,2018	90
7	LILO of Subhashgram - Jeerat 400 kV line at Rajarhat of PGCIL	8	West Bengal	Apl,2016	Dec,2017	20
8	Rajarhat - Purnea 400 kV D/C line(with one LILO at Gokarana and another at Farakka) of PGCIL	953	West Bengal	Apl,2016	Mar,2018	24
9	Silchar - Melriat (New) 400 kV D/C line (charged at 132KV)	288	Assam/ Mizoram	Dec,2012	Feb,2018	62
10	Madhugiri – Yelhanka 400 kV D/C line of PGCIL	132	Karnataka	Jun,2014	Mar,2018	45
11	Wardha-Aurangabad 1200 kV D/C line of PGCIL (initially charged at 400 kV)	696	Maharashtra	Oct,2012	Feb,2018	64
12	Bongaigaon TPS - Rangia 220 kV D/C line of AEGCL	326	Assam	Jan, 2013	Dec,2017	59
13	LILO of one ckt Samaguri-Sarusajai 220 kV D/C line of AEGCL	27	Assam	Dec,2013	Dec,2017	48
14	LILO of Shivalikha-Nanikhakhar 220 kV D/C line at Kurma of GETCO	34	Gujarat	Apl,2009	Dec,2017	105



15	LILO of Amreli – Dhasa 220 kV D/C line at Botad of GETCO(balance)	100	Gujarat	May,2015	Mar,2018	35
16	LILO of Vadavi-Chhatral 220 kV D/C line at santej of GETCO	51	Gujarat	Aug,2013	Dec,2017	40
17	Vadavi-Sanand 220 kV D/C line of GETCO	61	Gujarat	Apl,2015	Mar,2018	36
18	LILO of Chormar-Fathebad 220 kV D/C line at Hukmawali	84	Haryana	Jul,2013	Dec,2017	54
19	Badadi-Kothipura 220 kV D/C line of KPTCL	174	Karnatak	Feb,2008	Mar,2018	122
20	Tubinakere-Kothipura 220 kV D/C line of KPTCL	137	Karnatak	Jun,2009	Mar,2018	105
21	Boisar-Wada 220 kV D/C line of MSETCL	53	Maharashtra	Mar,2007	Dec,2017	129
22	Koradi-II – Butibori 220 kV D/C line of MSETCL	106	Maharashtra	Mar,2011	Mar,2018	86
23	LILO of Tarapur-Borivali 220 kV D/C Line at Boisar-II of MSETCL	16	Maharashtra	Mar,2007	Dec,2017	129
24	IB TPS-Lapanga 400 kV D/C line of OPTCL	38	Odisha	Jun,2013	Dec,2017	55
25	Phagi-Ajmer 400 kV D/C line of RVPNL	210	Rajasthan	Sept,2012	Dec,2017	63
26	Suratgarh TPS-Babai 400 D/C line of RVPNL	480	Rajasthan	Jan,2013	Dec,2017	60
27	Thervaikandikai-Korattur 400 D/C line of TNTRANSCO	74	Tamilnadu	Apl,2015	Mar,2018	36
28	LILO of Sriperumbadur-Arni 230 kV D/C line at Sunguvarchatram of TNTRANSCO	12	Tamilnadu	Dec,2010	Mar,2018	87
29	Karaikudi-Sembatty 230 kV D/C line of TNTRANSCO	137	Tamilnadu	Dec,2011	Dec,2018	85
30	Ottiyambakkam-Omega 230 kV D/C line of TNTRANSCO	70	Tamilnadu	Apl,2014	Mar,2018	48
31	LILO of Muradnagar-Loni 220 kV D/C line at Ataur of UPPTCL	30	Uttar Pradesh	May, 2016	Mar,2018	23
32	LILO of Sahranpur-Khodari 220 kV line at Sarsawa of UPPTCL	36	Uttar Pradesh	May, 2016	Mar,2018	23
33	LILO of Sahranpur-Nakur 220 kV line at Sarsawa of UPPTCL	13	Uttar Pradesh	May, 2016	Mar,2018	23
34	Teesta LDP-III-Teesta-LDP-IV 220 kV S/C line of WBSETCL	21	West Bengal	Sep,2008	Dec,2017	112



Table 2.3

**Details of pending forest clearance for more than 2 years**

S N	Name of the Project	Forest Area (Ha)	State	Date of Proposal Submission	Date of In-principle Clearance	Time taken for In-principle clearance	Delay (days)
1	Bilaspur – Ranchi 765kV S/C Line of PGCIL	302.367	Chattisgarh	15.03.2008	28.01.2013	1743	1443
2	Sasan- Satna 765 KV S/C Line (ckt-II) of PGCIL	128.553	MP	28.07.2009	30.01.2013	1277	977
3	+/- 800 KV Bishwanath charyali- Agra HVDC line (Islampur-Saharsa section) of PGCIL	7.2816	Bihar	28.09.2010	29.01.2014	1215	915
4	Vindychal-Satna765 KV D/C line of PGCIL	204.356	MP	01.06.2011	10.07.2014	1070	770
5	Bongaigaon-Siliguri 400 kV D/C line of SGL	9.98(RF)	WB/ Assam	23.04.2010	13.01.2014	1389	1089
6	Jabalpur - Bina 765 kV S/C line of SGL	138	MP	14.05.2012	15.01.2015	1095	662
7	Jabalpur - Dharamjaygarh 765 kV D/C line of SGL	283.81+ 113.68	MP/ Chattisgarh	01.07.2012	31.12.2014	880	580
8	Koradi-II - wardha 400 kV D/C line of MSETCL	16.02 0.46(PF) 0.46(RF)	Maharashtra	9.9.2011	04.03.2014	906	606
9	Anpara-Unnao 765 kV S/C line of UPPTCL	315.54(RF) 0.17(PF) 45.13(WL)	UP	25.9.2010	07.04.2016	2017	1717
10	Mundra - Zerda 400 kV D/C Line-II of GETCO	21.74(WL) 27.22(RF)	Gujarat	22.11.2010	13.02.2015	1541	1241
11	Mundra - Zerda 400 kV D/C Line-I of GETCO	48.46(WL) 23.25(RF)	Gujarat	07.08.2012	Approval yet to receive	>1900	>1600
12	Rajgarh-Karamsad 400 kV D/C line of RPTL	39.15(RF),1.37 (SF), 8.15(WL)	MP/Gujarat	6.04.2009/ 5.1.2010	31.12.2015	2455	2155



13	Anta-Phagi 765 kV 2xS/C line of RVPNL	1.63(RF) 35.02(WL)	Rajasthan	14.7.2011	03.03.2014	950	650
14	Gwalior-Jaipur 765 kV 2x S/C line of PGCIL	20.77(RF) 6.7(WL)	MP	18.07.2012 20.02.2015 (date of NBWL meeting)	25.05.2015	1041	741



Table 2.4

**Details of pending railways clearance for more than 2 years**

<b>S N</b>	<b>Name of the Project</b>	<b>Railways track</b>	<b>Location number</b>	<b>Name of Division</b>	<b>Date of submissio n</b>	<b>Status (as on 31.1.201 7)</b>
1	Orai-Aligarh 765kV D/C Line of PGCIL	Kanpur-Jhansi section	6/0 & 7/0	Jhansi	4.12.2015	Approval awaited
2	Orai-Orai 400 KV D/C Line of PGCIL	Kanpur-Orai section	18/0 & 19/0	Jhansi	4.12.2015	Approval awaited
3	Wardha-Aurangabad 1200 kV D/c line of PGCIL	Aurangabad-Jalna section	Nandad	South center railways	18.07.2014	Traffic block applied
4	New Chandilata-Gokarna 400 KV D/C line of WBSETCL	Bagila-Devipur section	76/23 -24 & 76/25-26	Eastern Railways	27.08.2015	Approval awaited
5	New Chandilata-Gokarna 400 KV D/C line of WBSETCL	Naikul-Malia section	25/5-6 & 20/7-8	Eastern Railways	22.9.2015	Approval awaited
6	New Chandilata-Gokarna 400 KV D/C line of WBSETCL	Sibalchandi-Cheragram section	52/1, 52/2, 52/2A, 52/3, 52/A	Hawrah	14.6.2015	Approval awaited
7	Bableshtar-Kudus 400 kV D/C line of MSETCL	Washind-Khadawali Railway line on (CR)	146-147	Mumbai	09.05.2013	Approval awaited
8	Bableshtar-Kudus 400 kV D/C line of MSETCL	Railway power Line crossing	145-146,147-148	Kalyan	31.10.2012	Approval awaited
9	Chandrapur-Chandrapur 220 kV D/C line of MSETCL	1) Railway line to Dhariwal Power Plant 2)Ballarsha-Warora Railway line	17/0- 18/0, 19/0- 20/0	Nagpur	4.8.2015	Approval awaited
10	Kalmeshwar-Warud 220 kV D/C line of MSETCL	1)Katol-Kalmeshwar Railway line 2)Katol- Warud Railway line	10/0-11/0, 4/0-5/0	Nagpur	30.9.2014	Approval awaited
11	LILO of Bhugaon-Warora 220 kV at Warora of MSETCL	Warora-Mazari Railway line (CR)	4/0-5/0	Nagpur	11.10.2013	Approval awaited
12	LILO of Bhusawal – Auragabad-I 400 kV line at Aurangabad-II of MSETCL	Jalna- Badnapur Railway line	187/0-188/0	Nandad	7.7.2015	Approval awaited



## Fund Utilized during 12<sup>th</sup> Plan

The expenditure incurred by the transmission utilities under central and state sector for construction of transmission projects 220 kV and above (132 kV and above in NER) during 12<sup>th</sup> Plan period was obtained and works out to be Rs 177959.47 crs. The transmission utility of Jharkhand, Sikkim, Arunachal Pradesh, Manipur and Nagaland state did not furnish expenditure details for 12<sup>th</sup> plan. Table 2.5 depicts fund utilization during 12<sup>th</sup> Plan period (2012-17) by transmission utilities.

**Table 2.5**

<b>Fund Expenditure of Transmission projects (220 kV &amp; above) during 12<sup>th</sup> Plan</b>								
<b>(Actuals up to Mar'17)</b>								
(All figures in Rs. Crores)								
Sl. No.	Name of the Utility	Transmission Works					Total	
		Actual	Actual	Actual	Actual	Actual/ Proposed		
		2012-13	2013-14	2014-15	2015-16	2016-17		
<b>I</b>	<b>Central Sector</b>							
1.	PGCIL	20360.00	23158.00	22456.00	22578.00	22500.00#	<b>111052.00</b>	
	DVC	145.94	173.06	140.78	170.60	80.90	<b>711.28</b>	*
	<b>Total CS</b>	<b>20505.94</b>	<b>23331.06</b>	<b>22596.78</b>	<b>22748.60</b>	<b>22580.90</b>	<b>111763.28</b>	
<b>II</b>	<b>State Sector</b>							
<b>a.</b>	<b>Northern Region</b>							
1	DTL	154.94	116.59	217.42	371.04	211.37	<b>1071.36</b>	
2	HPPTCL	79.67	22.03	134.33	380.39	161.70	<b>778.12</b>	
3	HVPNL	455.17	186.30	70.64	180.83	212	<b>1104.94</b>	
4	PDD,J&K	27.82	17.38	4.46	9.90	0.00	<b>59.56</b>	*
5	PSTCL	942.91	732.83	519.92	255.67	264.54	<b>2715.87</b>	
6	RVPNL	2163.73	1633.11	1776.08	2079.98	2076.49	<b>9729.39</b>	*
7	UPPTCL	16.74	26.26	1815.00	1892.00	3048.00#	<b>6798.00</b>	
8	PTCUL	43.78	29.06	193.65	414.00	85.91#	<b>766.40</b>	
	<b>Total N.R.</b>	<b>3884.76</b>	<b>2763.56</b>	<b>4731.50</b>	<b>5583.81</b>	<b>6060.01</b>	<b>23023.64</b>	
<b>b.</b>	<b>Western Region</b>							
1	CSPTCL	333.06	204.38	203.85	109.33	72.79	<b>923.41</b>	
2	GETCO	667.00	887.00	1139.00	1548.00	1146.00#	<b>5387.00</b>	
3	GOA	6.57	16.64	7.11	6.02	127.15#	<b>163.49</b>	
4	MPPTCL	626.67	312.86	440.15	301.79	367.82	<b>2049.29</b>	
5	MSETCL	1481.72	955.07	977.55	883.75	581.16	<b>4879.25</b>	
	<b>Total W.R.</b>	<b>3115.02</b>	<b>2375.95</b>	<b>2767.66</b>	<b>2848.89</b>	<b>2294.92</b>	<b>13402.44</b>	
<b>c.</b>	<b>Southern Region</b>							
1	APTRANSCO	270.07	379.31	376.83	976.16	1065.81	<b>3068.18</b>	**
2	KPTCL	235.44	96.44	92.40	543.73	1129.83#	<b>2097.84</b>	
3	KSEB	42.17	19.27	34.61	19.13	120.49#	<b>235.67</b>	
4	TANTRANSCO	1586.80	2786.13	3200.04	3022.99	2866.10	<b>13462.06</b>	
5	TSTRANSCO			495.31	965.58	1005.18	<b>2466.07</b>	*
6	Puducherry	2.00	3.03	5.66	1.59	25.50	<b>37.78</b>	*



	<b>Total S.R.</b>	<b>2136.48</b>	<b>3284.18</b>	<b>4204.85</b>	<b>5529.18</b>	<b>6212.91</b>	<b>21367.60</b>	
d.	<b>Eastern Region</b>							
1	BSPTCL	0.00	117.69	422.34	1263.60	301.13#	<b>2104.76</b>	
2	OPTCL	73.61	156.51	213.65	136.60	339.70	<b>920.07</b>	
3	JUSNL						<b>0.00</b>	#
4	WBSETCL	360.65	457.56	738.48	895.52	1449.97#	<b>3902.18</b>	*
5	Sikkim						<b>0.00</b>	#
	<b>Total E.R.</b>	<b>434.26</b>	<b>731.76</b>	<b>1374.47</b>	<b>2295.72</b>	<b>2090.80</b>	<b>6927.01</b>	
e.	<b>N-E Region</b>							
1	Arunachal Pradesh						<b>0.00</b>	#
2	AEGCL	159.62	252.31	103.16	150.58	63.76	<b>729.43</b>	
3	Manipur						<b>0.00</b>	#
4	MeECL	77.70	45.47	40.45	25.13	31.21	<b>219.96</b>	*
5	Mizoram	15.03	6.22	12.02	16.70	0.96#	<b>50.93</b>	
6	Nagaland						<b>0.00</b>	#
7	Tripura	0.00	0.00	190.07	190.07	95.04#	<b>475.18</b>	
	<b>Total N-E Region</b>	<b>252.35</b>	<b>304.00</b>	<b>345.70</b>	<b>382.48</b>	<b>190.97</b>	<b>1475.50</b>	
	<b>Total State Sector</b>	<b>9822.87</b>	<b>9459.45</b>	<b>13424.18</b>	<b>16640.08</b>	<b>16849.61</b>	<b>66196.19</b>	
	<b>Total all India</b>	<b>30328.81</b>	<b>32790.51</b>	<b>36020.96</b>	<b>39388.68</b>	<b>39430.51</b>	<b>177959.47</b>	
	<b>Note #</b> Transmission utilities are yet to furnish the actual expenditure data.							
	*Includes 132kV also, ** 400 KV only							



**CHAPTER – 3****ADDITIONS OF TRANSMISSION LINES & TRANSFORMATION CAPACITY DURING VARIOUS PLANS**

Transmission network of the country has rapidly increased through various plans since 6<sup>th</sup> plan onward. At the end of 12<sup>th</sup> plan period, the transmission network of the country (220 kV and above) stands at 3,67,851 CKm of Transmission Lines and 7,40,765 MVA of Transformation capacity. The transmission line capacity addition (220 kV and above) during various plan periods till end of 12<sup>th</sup> plan (i.e. FY 2016-17) at various voltage levels viz  $\pm 800$  KV HVDC, 765 kV,  $\pm 500$  kV HVDC, 400 KV and 220 kV are indicated in **tables 3.1(a) to 3.1(k)**. Similarly, the transformation capacity (220 kV and above) during various plan periods till end of 12<sup>th</sup> plan at various voltage levels viz 765 kV, 400 kV, 220 kV sub stations and  $\pm 800$  KV HVDC bipole,  $\pm 500$  kV HVDC bipole and  $\pm 500$  kV HVDC Back to Back terminals are indicated in **table 3.2 (a) to 3.2(k)**. These tables provide much insight into the achievement in the construction of transmission works since 6<sup>th</sup> plan onward. Additions of transmission line and transformation capacity during various plan periods are also shown in bar charts- 1/2 & 2/2 respectively. The growth of transmission network sector wise and voltage wise has also been depicted in **graph 3.1, pie chart 3.2 and 3.3**.

The detail of  $\pm 800$  kV HVDC, 765 kV and  $\pm 500$  kV HVDC transmission lines as well as  $\pm 800$  kV &  $\pm 500$  kV HVDC Bipole and Back-to-Back station at the end of 12<sup>th</sup> plan is given below;

**As on 31.03.2017****1.  $\pm 800$  KV****A.  $\pm 800$  KV HVDC Lines (CKm)**

Central Sector	6124
State Sector	0
Private Sector	0
<b>Total</b>	<b>6124</b>

**Details of  $\pm 800$  KV HVDC Lines**

- 1 Champa PS - Kurukshetra Line (2574 CKm)
- 2 LILO of Bishwanath Chariali - Agra at Alipurduar (44 CKm)
- 3 Biswanath Chariyali - Agra line (3506 CKm)

**B.  $\pm 800$  KV HVDC Converter stations (MW)****HVDC Bipole**

Central Sector	6000
State Sector	0
Private Sector	0
<b>Total</b>	<b>6000</b>

**2.  $\pm 500$  KV****A.  $\pm 500$  KV HVDC Lines (CKm)**

Central Sector	5948
State Sector	1504
Private Sector	1980
<b>Total</b>	<b>9432</b>

**Details of  $\pm 500$  KV HVDC Lines**

- 1 Rihand - Dadri line (1634 CKm)
- 2 Talchar-Kolar line (2734 CKm)
- 3 Balia - Bhiwadi line (1580 CKm)
- 4 Chandrapur - Padghe line (1504 CKm)
- 5 Mundra - Mohindergarh line (1980 CKm)

**B.  $\pm 500$  KV HVDC Converter stations (MW)****HVDC BACK to BACK**

Central Sector	3000
State Sector	0
Private Sector	0
<b>Total</b>	<b>3000</b>

**Details of ±800 KV HVDC Bipole**

- 1 Biswanath Chariyali & Agra (Pole-1 & 2) (3000 MW)
- 2 Alipurduar & Agra (Extn.) (Pole-3) (1500 MW)
- 3 Champa & Kurukshetra (Pole-1) (1500 MW)

**Details of ±500 KV HVDC Back to Back**

- 1 Vindhyachal (500 MW)
- 2 Chandrapur (1000 MW)
- 3 Gazuwaka (Pole-1) (500 MW)
- 4 Sasaram (500 MW)
- 5 Gazuwaka (Pole-2) (500 MW)

**HVDC Bipole**

Central Sector	6500
State Sector	1500
Private Sector	2500
<b>Total</b>	<b>10500</b>

**Details of ±500 KV HVDC Bipole**

- 1 Rihand & Dadri (1500 MW)
- 2 Talcher & Kolar (Pole - 1) (1000 MW)
- 3 Talcher & Kolar(Pole-2) (1000 MW)
- 4 Talchar & Kolar (Augmentation) (500 MW)
- 5 Balia & Bhiwadi (Pole -1) (1250 MW)
- 6 Balia & Bhiwadi (Pole-2) (1250 MW)
- 7 Chandrapur - Padghe (1500 MW)
- 8 Mundra - Mohindergarh (2500 MW)

**3. 765 KV****A. 765 KV Transmission Lines (CKm)**

Central Sector	25465
State Sector	1177
Private Sector	4598
<b>Total</b>	<b>31240</b>

**B. 765 KV Substations (MW)**

Central Sector	138000
State Sector	15000
Private Sector	14500
<b>Total</b>	<b>167500</b>

(Details of 765kV transmission lines and substation is attached Annexure-3.1)

**Growth in Transmission lines (in CKm) plan wise:****At the end of 6<sup>th</sup> Plan:****Table 3.1(a)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	0	0	1831	1641	3472
State	0	0	0	4198	44364	48562
JV/Private	0	0	0	0	0	0
Total	0	0	0	6029	46005	52034

**At the end of 7<sup>th</sup> Plan:****Table 3.1(b)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	0	0	13068	4560	17628
State	0	0	0	6756	55071	61827
JV/Private	0	0	0	0	0	0
Total	0	0	0	19824	59631	79455

**At the end of 8<sup>th</sup> Plan:****Table 3.1(c)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	0	1634	23001	6564	31199
State	0	0	0	13141	73036	86177
JV/Private	0	0	0	0	0	0
Total	0	0	1634	36142	79600	117376

**At the end of 9<sup>th</sup> Plan:****Table 3.1(d)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	751	3234	29345	8687	42017
State	0	409	1504	20033	88306	110252
JV/Private	0	0	0	0	0	0
Total	0	1160	4738	49378	96993	152269

**At the end of 10<sup>th</sup> Plan:****Table 3.1(e)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	1775	4368	48708	9444	64295
State	0	409	1504	24730	105185	131828
JV/Private	0	0	0	2284	0	2284
Total	0	2184	5872	75722	114629	198407

**At the end of 11<sup>th</sup> Plan:****Table 3.1(f)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	4839	5948	71023	10140	91950
State	0	411	1504	30191	125010	157116
JV/Private	0	0	1980	5605	830	8415
Total	0	5250	9432	106819	135980	257481

**At the end of first year of 12<sup>th</sup> Plan (FY 2012-13):****Table 3.1(g)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	6048	5948	76534	10474	99004
State	0	411	1504	33276	129213	164404
JV/Private	0	0	1980	8370	830	11180
Total	0	6459	9432	118180	140517	274588

**At the end of second year of 12<sup>th</sup> Plan (FY 2013-14):****Table 3.1(h)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	9898	5948	79612	10489	105947
State	0	837	1504	36179	133484	172004
JV/Private	0	361	1980	10166	878	13385
Total	0	11096	9432	125957	144851	291336

**At the end of third year of 12<sup>th</sup> Plan (FY 2014-15):****Table 3.1(i)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	15810	5948	82786	10582	115126
State	0	840	1504	40394	137932	180670
JV/Private	0	1994	1980	12769	898	17641
Total	0	18644	9432	135949	149412	313437

**At the end of fourth year of 12<sup>th</sup> Plan (FY 2015-16):****Table 3.1(j)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	3506	20134	5948	88795	10981	129364
State	0	840	1504	44441	145359	192144
JV/Private	0	3271	1980	13894	898	20043
Total	3506	24245	9432	147130	157238	341551

**At the end of fifth year of 12<sup>th</sup> Plan (FY 2016-17):****Table 3.1(k)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	6124	25465	5948	92482	11014	141033
State	0	1177	1504	48240	151276	202197
JV/Private	0	4598	1980	17065	978	24621
Total	6124	31240	9432	157787	163268	367851

**Growth in Transformation Capacity (in MVA) plan wise:****At the end of 6<sup>th</sup> Plan:****Table 3.2(a)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	0	0	715	500	1215
State	0	0	0	8615	36791	45406
JV/Private	0	0	0	0	0	0
Total	0	0	0	9330	37291	46621

**At the end of 7<sup>th</sup> Plan:****Table 3.2(b)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	0	0	6760	1881	8641
State	0	0	0	14820	51861	66681
JV/Private	0	0	0	0	0	0
Total	0	0	0	21580	53742	75322

**At the end of 8<sup>th</sup> Plan:****Table 3.2(c)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	0	0	17340	2566	19906
State	0	0	0	23525	81611	105136
JV/Private	0	0	0	0	0	0
Total	0	0	0	40865	84177	125042

**At the end of 9<sup>th</sup> Plan:****Table 3.2(d)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	0	3500	23575	2866	29941
State	0	0	1700	36805	113497	152002
JV/Private	0	0	0	0	0	0
Total	0	0	5200	60380	116363	181943

**At the end of 10<sup>th</sup> Plan:****Table 3.2(e)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	0	6500	40455	4276	51231
State	0	0	1700	52487	152221	206408
JV/Private	0	0	0	0	0	0
Total	0	0	8200	92942	156497	257639

**At the end of 11<sup>th</sup> Plan:****Table 3.2(f)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	24000	8250	77225	6436	115911
State	0	1000	1500	73172	215771	291443
JV/Private	0	0	0	630	1567	2197
Total	0	25000	9750	151027	223774	409551

**At the end of first year of 12<sup>th</sup> Plan (FY 2012-13):****Table 3.2(g)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	48000	9500	85165	7716	150381
State	0	1000	1500	82027	233611	318138
JV/Private	0	0	2500	630	1567	4697
Total	0	49000	13500	167822	242894	473216

**At the end of second year of 12<sup>th</sup> Plan (FY 2013-14):****Table 3.2(h)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	78000	9500	91775	7716	186991
State	0	2000	1500	85047	247311	335858
JV/Private	0	3000	2500	630	1567	7697
Total	0	83000	13500	177452	256594	530546

**At the end of third year of 12<sup>th</sup> Plan (FY 2014-15):****Table 3.2(i)**

Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	0	100500	9500	99175	8176	217351
State	0	9000	1500	92617	258935	362052
JV/Private	0	12000	2500	630	1567	16697
Total	0	121500	13500	192422	268678	596100

**At the end of fourth year of 12<sup>th</sup> Plan (FY 2015-16):****Table 3.2(j)**

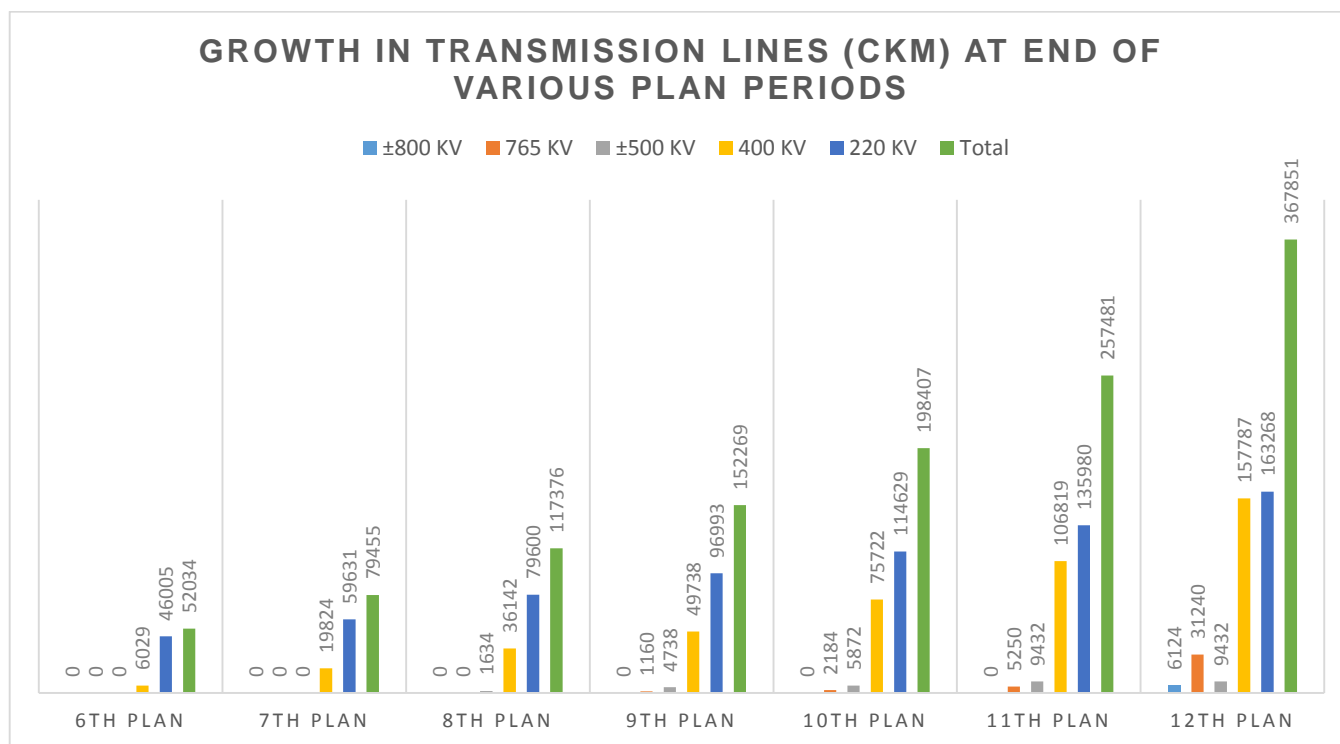
Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	1500	118500	9500	104735	9046	243281
State	0	10500	1500	102472	282869	397341
JV/Private	0	12000	2500	2260	1567	18327
Total	1500	141000	13500	209467	293482	658949

**At the end of Final year of 12<sup>th</sup> Plan (FY 2016-17):****Table 3.2(k)**

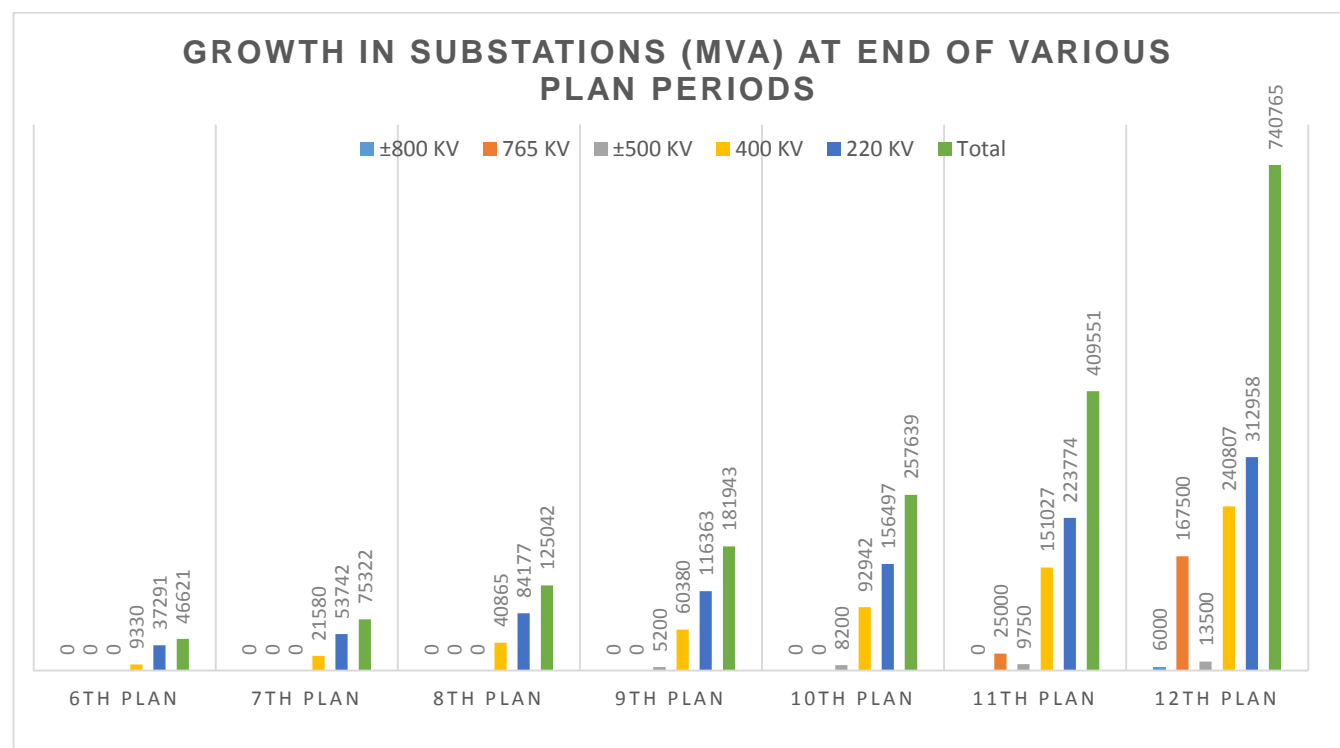
Sector/Voltage Level	±800KV HVDC	765KV	±500KV HVDC	400KV	220KV	Total
Central	6000	138000	9500	116170	9046	278716
State	0	15000	1500	119117	302345	437962
JV/Private	0	14500	2500	5520	1567	24087
Total	6000	167500	13500	240807	312958	740765



Bar chart-1/2



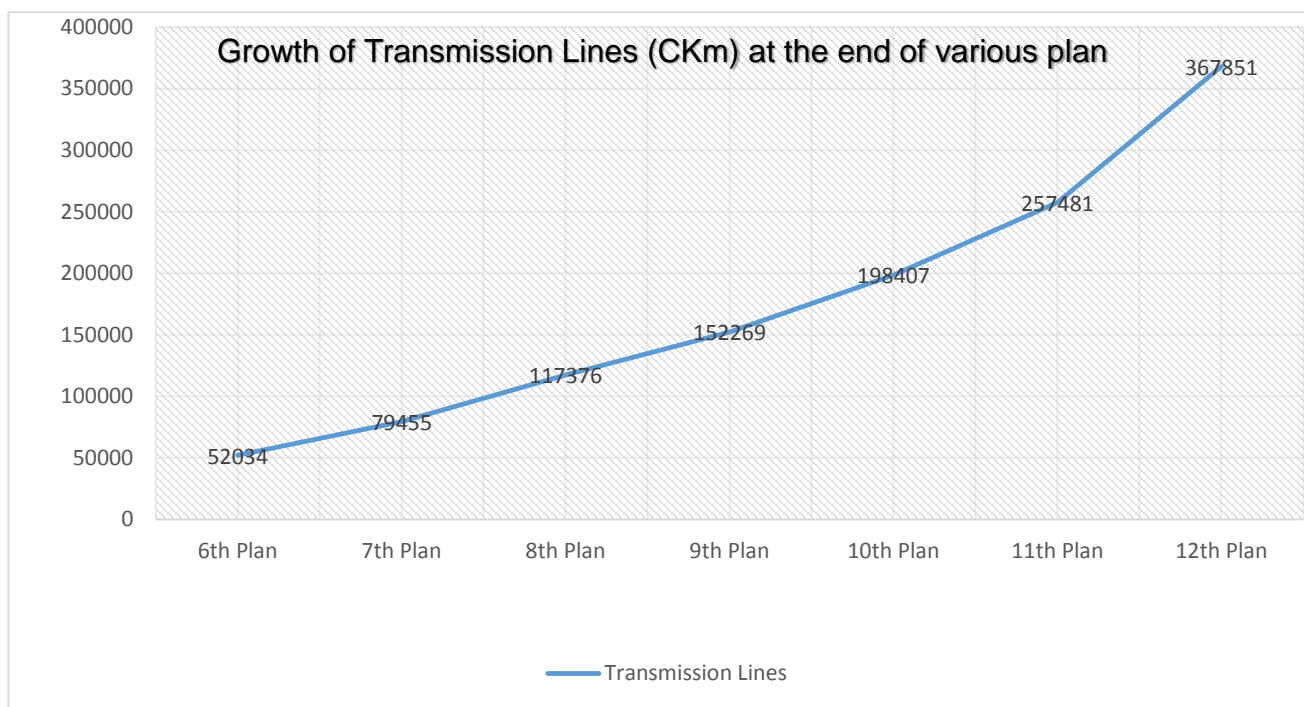
Bar chart-2/2



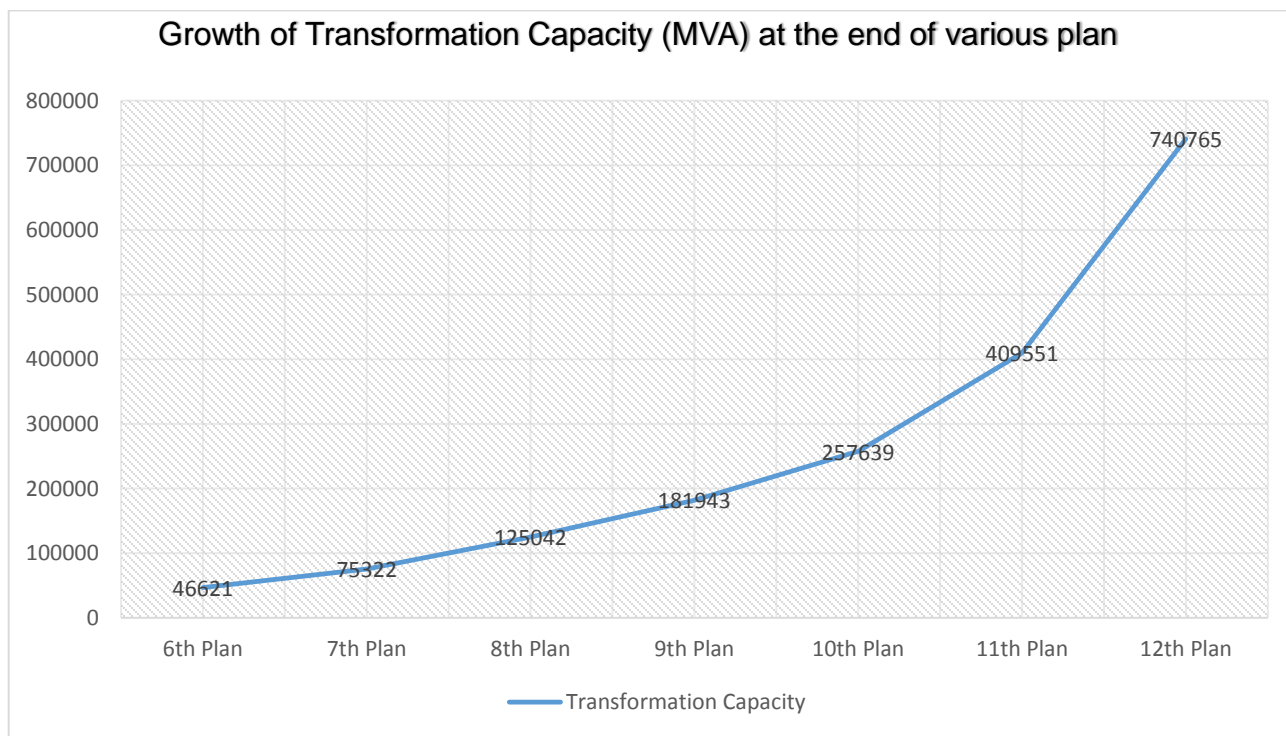




**Graph-3.1 (a)**

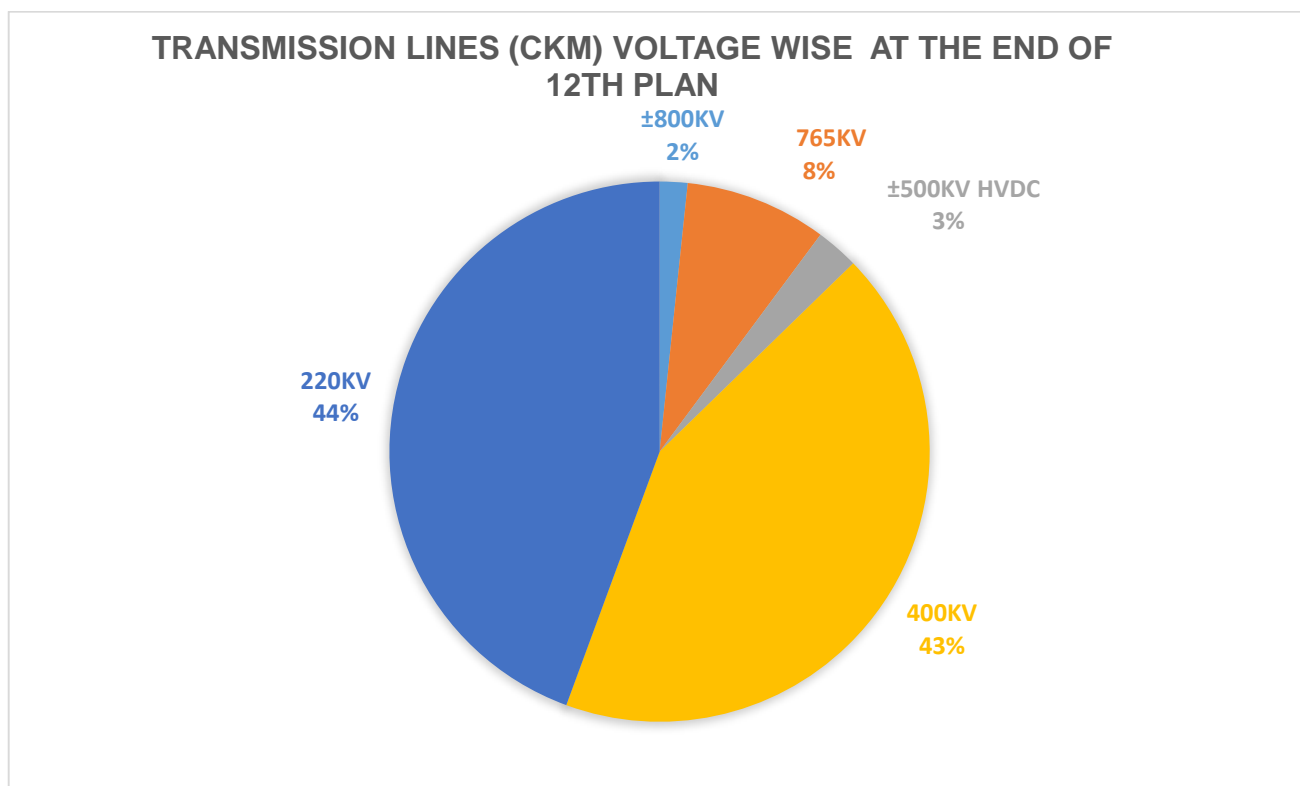


**Graph-3.1 (b)**

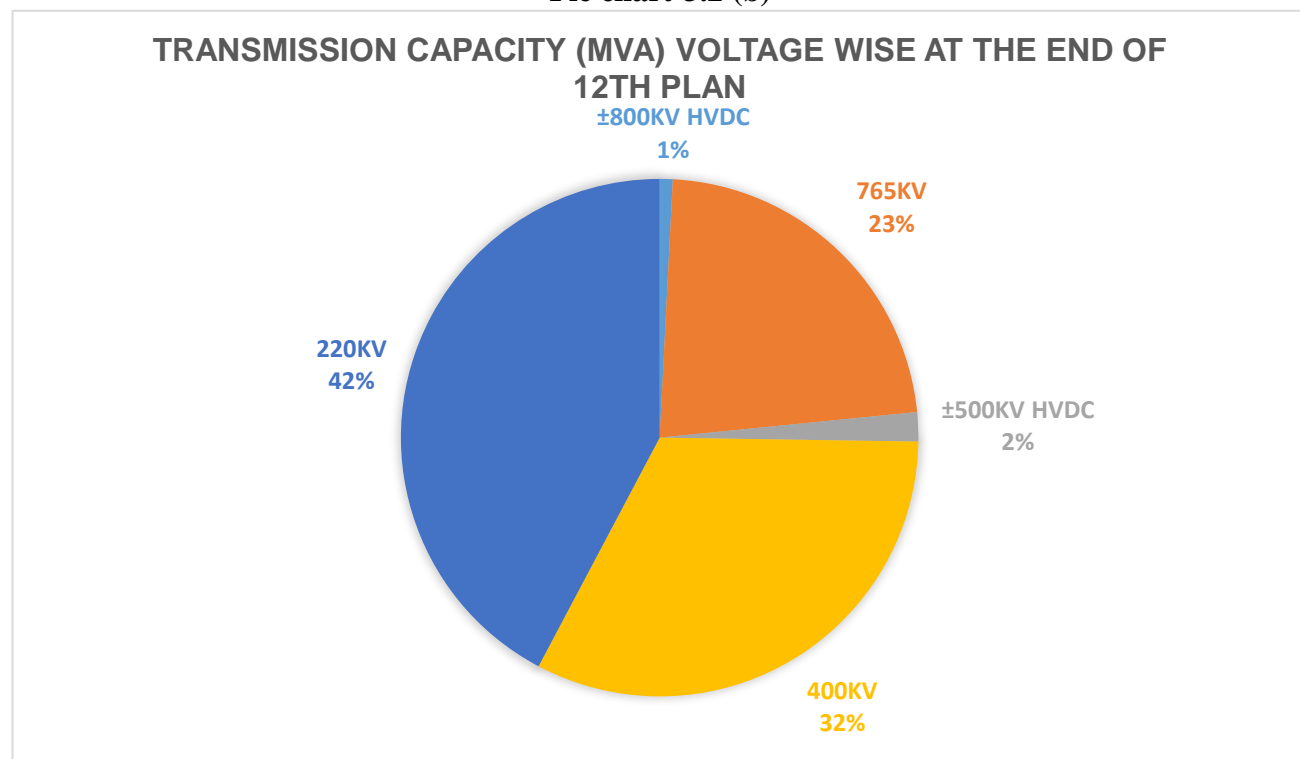




**Pie chart-3.2 (a)**

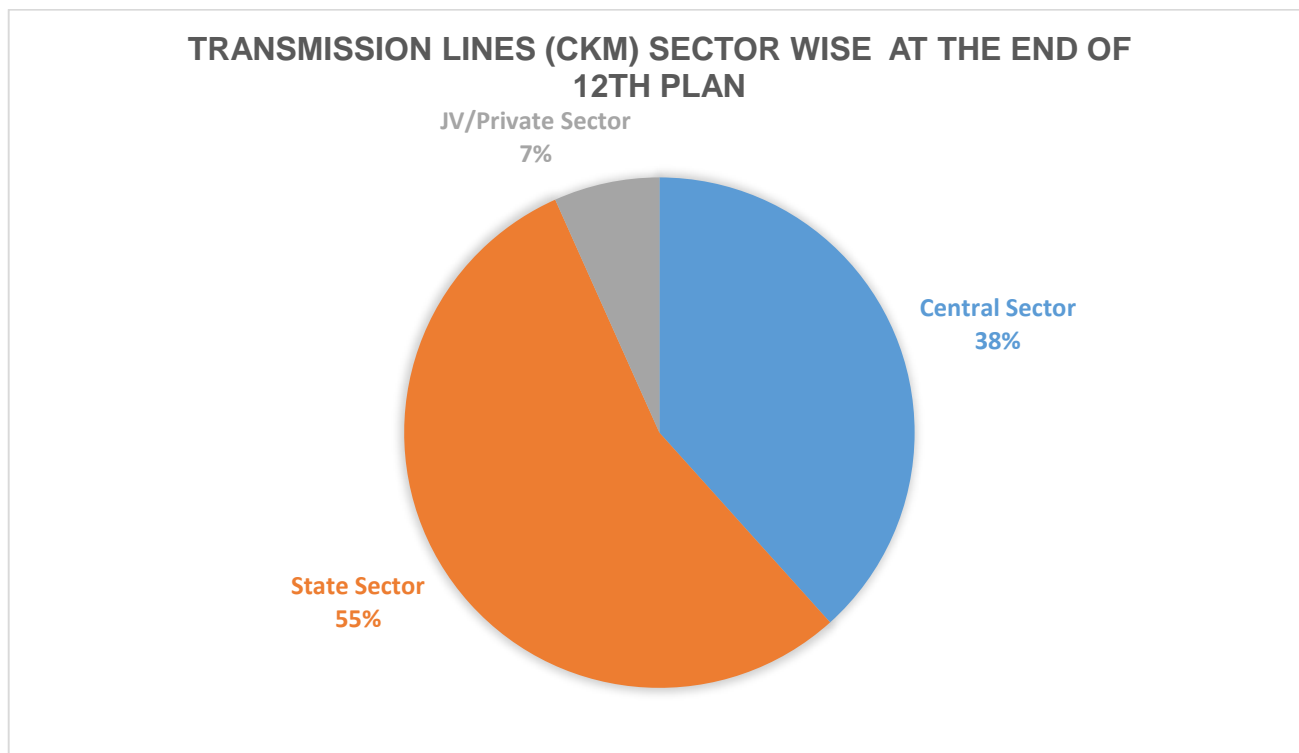


**Pie chart-3.2 (b)**

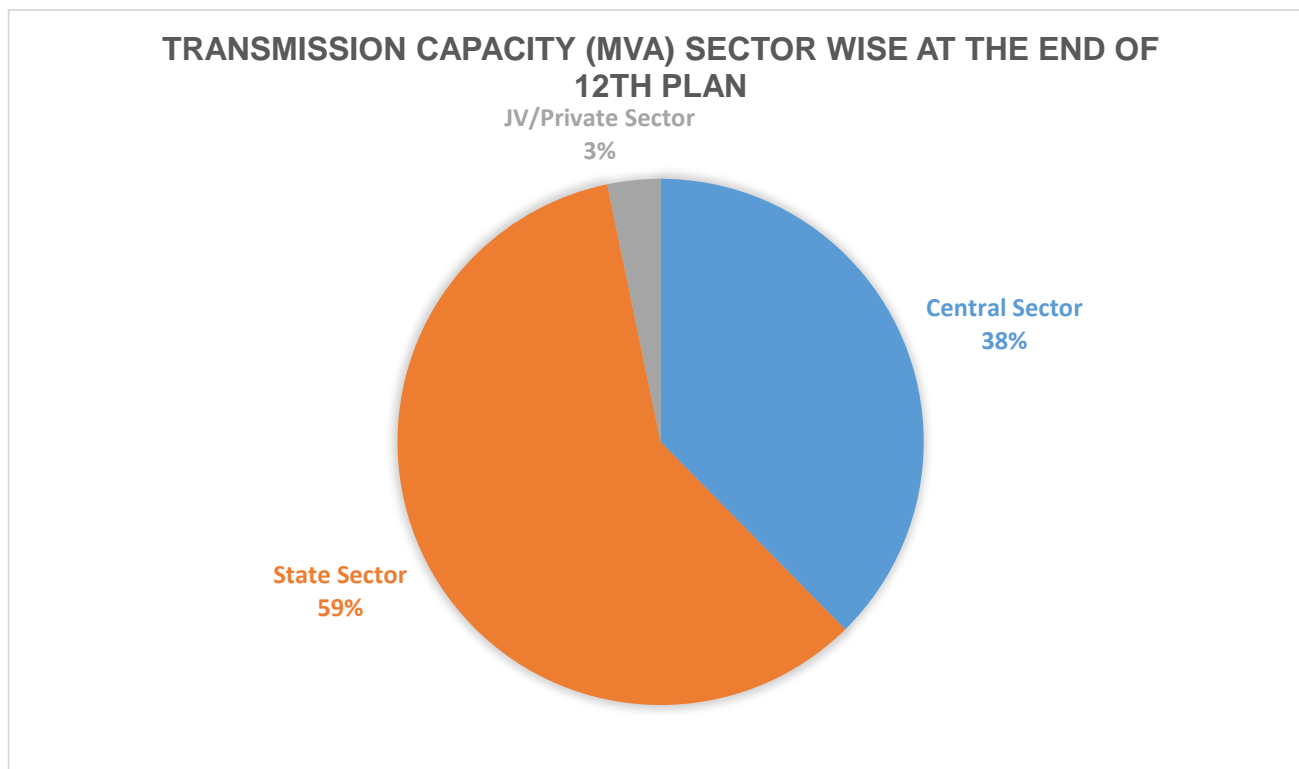




**Pie chart- 3.3(a)**



**Pie chart-3.3(b)**





## CHAPTER – 4

### **GROWTH OF INTER-REGIONAL POWER TRANSFER CAPACITY**

The Indian power transmission system has evolved from a sub-132 kV level system to the present day largely 400 kV system which is now moving towards a 765 kV system comprising of EHV AC and HVDC transmission lines. The country's 400 kV and 765 kV transmission network is probably amongst the largest in the world in its segment and is bound to grow substantially.

In 1963, Indian Power Grid was divided into five regions with a view to integrating State power systems in each region and promoting the concept of regional power development through integrated power systems transcending State boundaries. In 1964, the Regional Electricity Boards were established in each of the Regions of the country for facilitating integrated operation of State Systems in the Region and encouraging exchange of power among the States.

In 1989, transmission wings of Central generating companies were separated to set up Power Grid Corporation of India (POWERGRID) to give thrust to implementation of transmission system associated with Central generating stations and inter-regional transmission programme based on perspective planning done by CEA. Till then, the generation and transmission systems in the country were planned and developed on the basis of regional self-sufficiency and the initial set of inter-regional links developed under the Centrally sponsored programme for building inter-state infrastructure of State utilities, was utilized to facilitate exchange of operational surpluses among the various Regions in a limited manner because the Regional Grids operated independently and had different operational frequencies and the power exchanges on these inter-regional links could take place only in radial mode. Considering the operational regime of the various Regional Grids, it was decided to establish initially asynchronous connection between the Regional Grids to enable them to exchange large regulated quantum of power. Accordingly, a 500 MW asynchronous HVDC back-to-back link between the Northern Region and the Western Region at Vindhyachal was established. Subsequently, similar links between Western Region and Southern Region (1000 MW capacity at Bhardawati) and between Eastern Region and Southern Region (500 MW capacity at Gazuwaka) and between Eastern Region and Northern Region (500 MW capacity at Sasaram), was established. The Eastern Region and the North-Eastern Region were operating in parallel since 1992 being connected by a 220 kV double circuit transmission line and 400 kV 2xD/C transmission line. In march, 2003 Western regional grid was synchronised with East & Northeast regional grid. In Aug, 2006, Northern regional Grid was synchronised with Central Grid and in Dec'2013, southern regional grid was synchronised with western regional grid through Raichur - Solapur 765 kV line of PGCIL and Indian power grid was operated at one single frequency and the goal of one nation one grid was achieved.

At the end of 12<sup>th</sup> Plan, EHV AC/HVDC inter-regional links for transmission of 75050 MW power exists which would be further augmented to 1,18050 MW by Mar, 2022. Details of inter-regional links planned for implementation during 2017-22 is given at Annexure-4.0.

Details of inter-regional power transmission links and their capacity at the end of 12<sup>th</sup> plan is given at **table 4.0** and details of inter-regional power transmission links added during 12<sup>th</sup> plan is given at **table 4.1**.

**Table 4.0****Inter-Regional Power Transmission Capacity (MW) at the end of 12<sup>th</sup> Plan**

Inter-Regional Transmission Capacity at the end of X Plan	14,050
Addition during XI Plan period	13,700
Inter-Regional Transmission Capacity at the end of XI Plan	27,150
Addition during XII Plan period	47,900
ER - NER	1600
ER - NR	8900
ER - WR	8400
ER - SR	4200
NER - NR	3000
NR - WR	11200
WR - SR	10600
Inter-Regional Transmission Capacity at the end of XII Plan	75,050

**Break up of Inter-Regional Transmission Capacity(MW)**

ER-NER	2,860
ER-NR	21,030
ER-WR	12,790
ER-SR	7,830
NER-NR	3,000
NR-WR	15,420
WR-SR	12,120
132kV (Inter Regional) link	600

**Note:** 600 MW of 132 kV Inter-Regional power transfer capacity is not added in the total.



## Inter-Regional Capacity - Existing

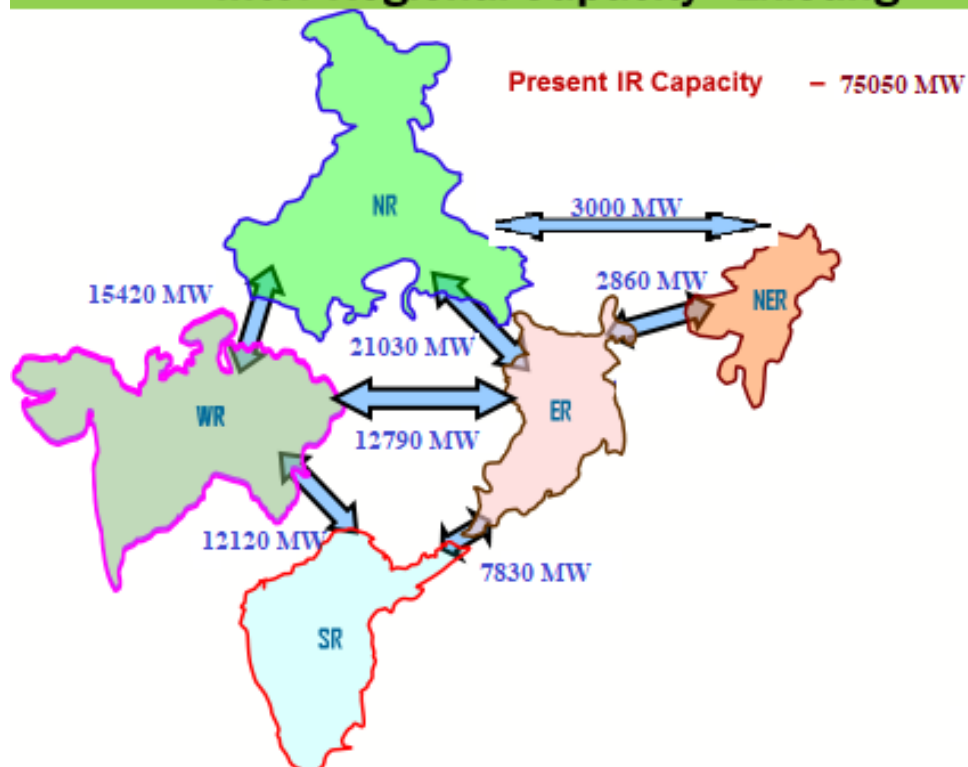


Table 4.1

### Details of inter-regional transmission lines commissioned during XII Plan

Name of the transmission line	Capacity(MW)
<b>ER – NR</b>	
765 kV S/C Sasaram – Fatehpur line –II	2,100
400 kV D/C Barh – II TPS – Gorakhpur line (Quad)	1,600
765 kV S/C Gaya – Varanasi line	2,100
Extension of one 400KV D/C Biharshariff – Sasaram line to Varanasi (Q)	1,600
LILO of Biswanath Chariali – Agra HVDC line at Alipurduar Bipole-I	1,500
<b>Total</b>	<b>8900</b>
<b>ER – SR</b>	
765 kV D/C Angul – Srikakulam Line	4200
<b>Total</b>	<b>4200</b>



<b><u>ER - NER</u></b>	
400 kV D/C Bongaigoan - Siliguri Line (ENICL)	1,600
<b>Total</b>	<b>1600</b>
<b><u>ER - WR</u></b>	
765 kV S/C Ranchi – WR (Bilaspur) Sipat Pooling Station	2,100
765 kV D/C Jharsuguda Pooling Station – Dharamjaygarh line	4,200
765 kV S/C Ranchi New – Dharamjaygarh (Near Korba) line	2,100
<b>Total</b>	<b>8400</b>
<b><u>NR – WR</u></b>	
765 kV S/C Agra – Gwalior line –I (earlier at 400 kV)	1,000
765 kV S/C Agra – Gwalior line –II (earlier at 400 kV)	1,000
± 500 kV HVDC Bipole between Mundra – Mohindergarh	2,500
765 kV S/C Gwalior – Jaipur (RVPN) line Ckt –I	2,100
765 kV S/C Gwalior – Jaipur line Ckt –II	2,100
400 kV RAPP C&D – Shujalpur	1,000
± 800 kV Champa – Kurukshetra HVDC Bipole-I	1,500
<b>Total</b>	<b>11200</b>
<b><u>NER – NR</u></b>	
± 800 kV Biswanath Chariyali – Agra HVDC Bipole-I&2	3,000
<b>Total</b>	<b>3000</b>
<b><u>WR – SR</u></b>	
765 kV D/C Narendra (New Kudgi) – Kolhapur line (initially charged at 400 kV)	2,200
765 kV S/C Raichur – Sholapur line Ckt –I	2,100
765 kV S/C Raichur – Sholapur line Ckt –II	2,100
Wardha – Nizamabad line (Part of Wardha – Hyderabad line)	4,200
<b>Total</b>	<b>10600</b>
<b>GRAND TOTAL</b>	<b>47,900</b>



## **CHAPTER – 5**

### **GENERATION PROJECTS AND ITS ASSOCIATED TRANSMISSION SYSTEM COMMISSIONED DURING 12<sup>TH</sup> PLAN**

A generation capacity of 88536.60 MW was added during 12<sup>th</sup> Plan and as far as evacuation of power from generation projects is concerned, no constraints was faced and planned transmission system associated with the respective generation projects was mostly completed matching with the generation projects but in some cases the associated transmission system of generation projects was delayed by few months and in such cases, an interim connectivity was made available till the completion of planned power evacuation system. Details of transmission system associated with generation projects commissioned during 12<sup>th</sup> Plan is given at **Annexure-5.0**.





## Annexure-2.1a

<b>Transmission Lines Commissioned/ ready for commission during 2016-2017 (as on 31.3.2017)</b>					
<b>Sl. No.</b>	<b>Name of Transmission Lines</b>	<b>Circuit Type</b>	<b>Executing Agency</b>	<b>Line Length (CKm)</b>	<b>Month of Completion</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>± 800 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Champa Pooling Station - Kurukshetra (HVDC) BIPOLE Line	BIPOLE	PGCIL	2574	SEP-16
2	LILO of Bishwanath Chariali - Agra at Alipurduar	HVDC	PGCIL	44	MAR-17
<b>Total of Central Sector</b>				<b>2618</b>	
<b>Total of +/-800 kV</b>				<b>2618</b>	
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
3	Gaya – Varanasi	S/C	PGCIL	273	APR-16
4	Kanpur – Jhatikara	S/C	PGCIL	466	JUN-16
5	Varanasi – Kanpur	D/C	PGCIL	652	JUN-16
6	Jaipur (RVPNL) - Bhiwani (IInd Ckt) line	S/C	PGCIL	277	SEP-16
7	Srikakulam PP - Vemagiri - II PS (PVTL-TBCB)	D/C	PGCIL	668	SEP-16
8	Nagapattinam PS - Salem (PNMTL-TBCB)	D/C	PGCIL	406	OCT-16
9	Tuticorin Pooling Station - Salem Pooling Station	D/C	PGCIL	731	NOV-16
10	Srikakulam Pooling Station - Angul line	D/C	PGCIL	552	DEC-16
11	LILO of existing Seoni-Bina at Gadarwara STPP	D/C	PGCIL	16	JAN-17
12	Raipur Pooling station - Wardha line -II	D/C	PGCIL	714	MAR-17
13	Wardha - Nizamabad line (Part of Wardha - Hyderabad line)	D/C	PGCIL	576	MAR-17
<b>Total of Central Sector</b>				<b>5331</b>	
<b>PRIVATE SECTOR</b>					
14	LILO of Agra - Meerut line at Greater Noida	2xS/C	WUPPTCL	11	APR-16
15	Mainpuri-Greater Noida	S/C	WUPPTCL	181	AUG-16
16	Narendra (New) - Madhugiri (KTL - TBCB)	D/C	KTCL	758	SEP-16
17	Mainpuri - Bara Ckt-II	S/C	SEUPPTCL	377	DEC-16
<b>Total of Pvt. Sector</b>				<b>1327</b>	
<b>STATE SECTOR</b>					
18	Lalitpur TPS - Agra (UP) Ckt-I	S/C	UPPTCL	337	SEP-16
<b>Total of State Sector</b>				<b>337</b>	
<b>Total of 765 kV</b>				<b>6995</b>	



400 kV					
CENTRAL SECTOR					
26	LILO of Kadapa (Cuddapah) - Kolar at N.P. Kunta Pooling Station	D/C	PGCIL	21	APR-16
27	LILO of Pune - Aurangabad at Pune (GIS)	2xD/C	PGCIL	58	APR-16
28	Lara STPS - Raigarh (Kotra) line	D/C	PGCIL	36	APR-16
29	Panchkula - Patiala	D/C	PGCIL	131	APR-16
30	LILO of Meerut - Kaithal at Bagpat (Ckt-II)	D/C	PGCIL	61	MAY-16
31	Roorkee - Saharanpur line (Quad) (Ckt-I)	D/C	PGCIL	37	MAY-16
32	Jharkhand Pool (Chandwa) - Gaya (Quad) line	D/C	PGCIL	234	JUN-16
33	Kanpur (new) - Kanpur (exit)	D/C	PGCIL	41	JUN-16
34	LILO of 400 kV D/C Baripada - Mendhasal at Pindiabil	2xD/C	PGCIL	112	JUN-16
35	Ranchi - Jharkhand Pool line (Chandwa)	D/C	PGCIL	138	JUN-16
36	Roorkee - Saharanpur line (Ckt-II)	D/C	PGCIL	37	JUN-16
37	LILO IN of Both Ckt Teesta-III - Kishanganj at Rangpo	MC+D/C	PGCIL	21	JUL-16
38	Line for swapping of Purnea bay with Sasaram bay at Biharshariff s/s	D/C	PGCIL	10	JUL-16
39	Betul - Khandwa (Quad) line	D/C	PGCIL	338	AUG-16
40	Khandwa - Indore line	D/C	PGCIL	344	AUG-16
41	Meja - Allahabad line	D/C	PGCIL	56	AUG-16
42	Sasaram - Allahabad line (1 ckt shifted from NR bus to ER bus) Addition	D/C	PGCIL	6	AUG-16
43	Essar Gujarat TPS - Bachau (Tripal)	D/C	PGCIL	446	SEP-16
44	LILO of One ckt RAPP - Kankroli at Chittorgarh	D/C	PGCIL	28	SEP-16
45	Unchahar - Fatehpur line (PUTL-TBCB)	D/C	PGCIL	107	SEP-16
46	Varanasi - Sarnath (Q)	D/C	PGCIL	213	OCT-16
47	LILO of Gazuwaka - Vijayawada 400KV S/C line at Vemagiri PS	D/C	PGCIL	38	DEC-16
48	Navsari - Boisor line (Balance portion )	D/C	PGCIL	161	DEC-16
49	Dehradun - Bagpat line (Q)	D/C	PGCIL	330	JAN-17
50	Sikar - Jaipur line	D/C	PGCIL	339	JAN-17
51	LILO of One Ckt Parbati Pooling Station - Amritsar at Jalandhar	D/C	PGCIL	34	FEB-17
52	Farakka-Gokarna Portion of Raharhat-Purnea Lin, alongwith LILO at Farakka & Gokarna to form Farakka - Gokarna line	D/C	PGCIL	238	MAR-17
53	LILO of Bongaigaon - Siliguri at Alipurduar	D/C	PGCIL	13	MAR-17
54	LILO of Dadri - Malerkotla at Kaithal	D/C	PGCIL	50	MAR-17
55	Nizamabad – Dichpalli line -Ckt-I	D/C	PGCIL	9	MAR-17
<b>Total of Central Sector</b>				<b>3687</b>	
PRIVATE SECTOR					
56	Greater Noida-Sikandrabad	D/C	WUPPTCL	34	APR-16
57	Athena Singhitarai - Raigarh Pooling Station (near Kotra)	D/C	ACPL	50	MAY-16



58	LILO of both ckt of Patiala - Kaithal at Patran (PTL - TBCB)	D/C	PATRANTCL	1	JUN-16
59	Jullandhar - Samba line (NRSS-XXIX - TBCB)	D/C	SGL	270	JUN-16
60	Kharagpur (WBSETCL) - Chaibasa (PG) (P&KTCL - TBCB)	D/C	SGL	323	JUN-16
61	RAPP - Shujalpur line (RAPPTCL - TBCB)	D/C	SGL	402	JUN-16
62	Cuddalore - Naggapattinam	D/C	ITPCL	95	AUG-16
63	Madhugiri - Bidadi (KTL - TBCB)	D/C	KTCL	185	AUG-16
64	LILO of Moradabad-Muzzafarnagar at Hapur	D/C	WUPPTCL	2	AUG-16
65	Mutiara TPP(Coastal Energen Gen. Switchyard) - Tuticorin Pooling Station (Balance portion)	D/C	CEPL	24	OCT-16
66	Uchpinda (RKM Powergen Private Ltd.) - Kotra s/s (Raigarh) line	D/C	RKMPPL	53	OCT-16
67	Balco - Dharamjaygar Pooling Station	D/C	BALCO	46	DEC-16
68	Avantha Bhandar TPS (Korba West) - Raigarh (Kotra)	D/C	KWPCL	37	DEC-16
69	LILO of Orai - Mainpuri line at Mainpuri	2xD/C	SEUPPTCL	93	DEC-16
70	Mainpuri - Aligarh	D/C	SEUPPTCL	186	DEC-16
71	Kurukshetra - Malerkotla line (NRSSXXXITL - TBCB)	D/C	ESSEL	278	JAN-17
72	Purulia - Ranchi (PG) (P&KTCL - TBCB)	D/C	SGL	223	JAN-17
73	Dgen TPS- Navsari line	D/C	TOR. POW. (UNOSUGEN)	210	JAN-17
74	Ajmer - Deedwana	S/C	APL	111	FEB-17
75	Bikaner - Deedwana	S/C	APL	129	FEB-17
76	Hindaun - Alwar	S/C	APL	97	FEB-17
77	JP Nigri TPP - Satna (PG)	D/C	JAL	322	FEB-17
<b>Total of Pvt. Sector</b>				<b>3171</b>	
<b>STATE SECTOR</b>					
78	Interconnection of one ckt of Jhanor - Navsari line with one ckt of Ukai - Kosamba line	D/C	GETCO	1	APR-16
79	LILO of Chabra TPS - Anta line at Supercritical Chhabta TPS	D/C	RVPNL	3	APR-16
80	LILO of one ckt Raj west -Jodhpur at Jodhpur (New)	D/C	RVPNL	102	APR-16
81	400 kV Aurangabad II (Thaptitanda) - 765 kV Aurangabad III (Ektuni) (Ckt 3 & 4)	D/C	MSETCL	10	MAY-16
82	Jammalamadugu - Uravakonda	D/C	APTRANSCO	255	JUN-16
83	LILO of Jodhpur - Merta line at Jodhpur (New)	D/C	RVPNL	99	JUN-16
84	Rasipalayam - Anaikadavu	D/C	TANTRANSCO	77	JUN-16
85	Thappakundu - Anaikadavu	D/C	TANTRANSCO	358	JUN-16
86	Srinagar HEP - Sringar 400 kV S/S.	D/C	PTCUL	28	JUL-16
87	LILO of both ckt of MTPS stage III - Arasur (PGCIL) at Karamadai	M/C	TANTRANSCO	124	AUG-16



88	Suryapet - Nandiwanaparathi (part of Suryapet- Shankarpally line)	D/C	TSTRANSCO	240	AUG-16
89	LILO of Kayathar - Karaikudi line at 400 kV Kamudhi s/s	D/C	TANTRANSCO	223	SEP-16
90	Anpara B - Anpara D (2nd ckt)	D/C	UPPTCL	5	SEP-16
91	LILO of 400 kV Agra (UP) - Muradnagar 400 kV S/C line at Agra (UP) 765/400 kV S/S	D/C	UPPTCL	156	SEP-16
92	LILO of one ckt of 400 kV Agra (UP) - Agra (PG) 400 kV D/C line at Agra (UP) 765/400 kV S/S	D/C	UPPTCL	73	SEP-16
93	Kamavarapukota - Suryapet (Kamavarrapukota - Chinnakorukondi)	D/C	APTRANSCO	179	OCT-16
94	Kamavarapukota - Suryapet (Chinnakorukondi - Suryapet)	D/C	TSTRANSCO	170	OCT-16
95	Tungabhadra river - Yemmiganur	D/C	APTRANSCO	43	NOV-16
96	Veltoor - Thungabhadra River (Q) line	D/C	TSTRANSCO	147	NOV-16
97	Raita - Jagadapur line	D/C	CSPTCL	657	DEC-16
98	Koradi-II - Koradi-III (Ckt-I)	D/C	MSETCL	38	DEC-16
99	Phagi GSS (Jaipur) - Heerpura line	D/C	RVPNL	104	DEC-16
100	Karaikudi - Kamudhi	D/C	TANTRANSCO	220	DEC-16
101	Tirunelveli (Abishekapatty) - Kanarpatty	S/C	TANTRANSCO	15	DEC-16
102	LILO of Vizag - Khammam (Ckt-I) at Asupaka	D/C	TSTRANSCO	34	DEC-16
103	Naranoor - Ghani line	D/C	APTRANSCO	33	JAN-17
104	LILO of 400 kV Solapur - Kolhapur PGCIL line for 400 kV Alkud S/S	D/C	MSETCL	25	JAN-17
105	Koradi II to Koradi -III line (ckt.II)	D/C	MSETCL	38	FEB-17
106	LILO of Jeerat - KTPS 400 kV S/C at N. Chanditala	D/C+S/C	WBSETCL	7	FEB-17
107	Charanka - Veloda Line	D/C	GETCO	199	MAR-17
108	Kirori - Jind line (Ckt-II)	D/C	HVPNL	50	MAR-17
109	LILO of Chandrapur-Parli S/C line for 400KV Nanded (Khumbhargaon)	D/C	MSETCL	80	MAR-17
110	LILO of 400kV Gajwel - Yeddumailaram (Shankarpally) ckt-I at 400 kV Narsapur SS.	D/C	TSTRANSCO	6	MAR-17
<b>Total of State Sector</b>				<b>3799</b>	
<b>Total of 400 kV</b>				<b>10657</b>	
<b>220 kV</b>					
<b>CENTRAL SECTOR</b>					
111	LILO of Gladni - Hiranagar at Samba (PG)	D/C	PGCIL	28	JUN-16
112	LILO of Birpara - Salakati line at Alipurduar (New Pooling Station)	D/C	PGCIL	5	MAR-17
<b>Total of Central Sector</b>				<b>33</b>	
<b>PVT SECTOR</b>					
113	Jorethang HEP - New Melli	D/C	DEPL	20	NOV-16



114	Sujargarh - Deedwana	D/C	APL	60	FEB-17
<b>Total of Pvt. Sector</b>				<b>80</b>	
<b>STATE SECTOR</b>					
115	N P Kunta PS - 400 kV N P Kunta (PGCIL) S/S	D/C	APTRANSCO	4	APR-16
116	LILO of Kasor-Botad at Dhuvaran CCPP-III	D/C	GETCO	81	APR-16
117	Kashang - Bhaba (2nd Ckt)	D/C	HPPTCL	39	APR-16
118	LILO of 220 kV Katni - Satna at PGCIL Satna	D/C	MPPTCL	1	APR-16
119	Aau - Badisid	D/C	RVPNL	118	APR-16
120	LILO of Jodhpur (GSS) - Jodhpur at Barli	D/C	RVPNL	1	APR-16
121	LILO of Kota (PG) -Bhilwara at Mandalgarh	D/C	RVPNL	40	APR-16
122	LILO of Gummidipoondi - M/s Michelin Tyres line at Theruvoykandigai 400 kV S/S	D/C	TANTRANSCO	2	APR-16
123	Parigi 220 kV S/S - Shankarpally 400 kV S/S	D/C	TSTRANSCO	90	APR-16
124	Ramagundam - Mandamarri (Bellampally) (2nd Ckt)	D/C	TSTRANSCO	34	APR-16
125	LILO of 2nd Ckt Shahbad - Pehowa at Durala	D/C	HVPNL	6	MAY-16
126	LILO of Ranasan - Karamsad at Barejadi S/S	D/C	GETCO	15	MAY-16
127	LILO of Kolhapur - Sawantwadi at Mudhaltitta (Bidri)S/S (Tap line, Ckt-II)	D/C	MSETCL	13	MAY-16
128	Tap on Babhaleshwar - Chalisgaon for Kopergaon S/S (Ckt-II)	D/C	MSETCL	11	MAY-16
129	LILO of Ferozepur - Talwandi Bhai line at Sadiq	D/C	PSTCL	48	MAY-16
130	Baghpat - Baghpat (PG)	S/C	UPPTCL	15	MAY-16
131	Sahupuri-Bhelupur	D/C	UPPTCL	29	MAY-16
132	Kharagpur - Egra	D/C	WBSETCL	107	MAY-16
133	RTPP (Muddanur) - Chinakampalli	D/C	APTRANSCO	121	JUN-16
134	Uravakonda - Vajrakarur	D/C	APTRANSCO	32	JUN-16
135	LILO of Both ckt of 220 KV Jamanwada - Varsana at Bhachunda (AL-59) M/C	2xD/C	GETCO	83	JUN-16
136	A5(Faridabad) - A4(Faridabad) (Ckt-I)	D/C	HVPNL	8	JUN-16
137	LILO of Pithampur - Indore line at 220kV Pithampur-II s/s	D/C	MPPTCL	15	JUN-16
138	LILO of one ckt of 220kV Bhopal - Ashta line at Mungaliyachhap s/s	D/C	MPPTCL	52	JUN-16
139	LILO on 220 kV Kandalgaon Topworth for M/s Pioneer Gas Power Ltd.	D/C	MSETCL	1	JUN-16
140	Kanjali - Science city line (Jalandhar)	D/C	PSTCL	30	JUN-16
141	LILO of GGSSTP - Jamsher at Jadla	D/C	PSTCL	21	JUN-16
142	LILO of Ganguwal - Mohali at Majra	D/C	PSTCL	21	JUN-16
143	LILO of Malout - GNDTP Bhatinda at Badal	D/C	PSTCL	50	JUN-16
144	Rajpura - Lalru	D/C	PSTCL	59	JUN-16
145	Bhadla-Kanasar	D/C	RVPNL	63	JUN-16



146	LILO of Deviakurichy - Pudhansanthai at Valayapatty	D/C	TANTRANSCO	52	JUN-16
147	LILO of Existing SP Koil - Thiruvalem at Kanchipuram S/S	D/C	TANTRANSCO	1	JUN-16
148	LILO of Existing Sunguvarchatram - Arni at Kanchipuram S/S	D/C	TANTRANSCO	16	JUN-16
149	LILO of Kalpakkam - Arani at Purisai	D/C	TANTRANSCO	24	JUN-16
150	LILO of Siruseri - Taramani (Kids park) line at 400 kV Ottiyambakkam S/S	D/C	TANTRANSCO	5	JUN-16
151	LILO of Tuticorin Sipcot - Checkanurani line at Savasapuram S/s	D/C	TANTRANSCO	13	JUN-16
152	400 kV Gonda - 220 kV Gonda Interconnector (one ckt)	D/C	UPPTCL	14	JUN-16
153	Bhraich - 400 kv Gonda line (one ckt.)	D/C	UPPTCL	74	JUN-16
154	LILO of 220 kV Parichha - Banda line at Mahoba	D/C	UPPTCL	10	JUN-16
155	LILO of Harduaganj - Mainpuri S/C line at Sikandra Rau	D/C	UPPTCL	3	JUN-16
156	400 KV Karamadai S/S - 230 KV Thudiyalur S/S (Part of line from Loc. 1 to 81)	S/C on D/C	APTRANSCO	21	JUL-16
157	Gaya (PG) - Sonenagar (New)	D/C	BSEB	183	JUL-16
158	Bawana-Rohini -II (Sec -29) line	D/C	DTL	12	JUL-16
159	GPPC (Pipavav)- Dhokadva	D/C	GETCO	94	JUL-16
160	Bhinmal - Sayla line	D/C	RVPNL	78	JUL-16
161	Garividi - Tekkali (2nd Ckt) line	S/C	APTRANSCO	92	AUG-16
162	Kasor - Herang (DFCC) line	D/C	GETCO	39	AUG-16
163	LILO of Radhanpur - Mehsana at Sankhari	D/C	GETCO	62	AUG-16
164	Visavadar - Timbdi	D/C	GETCO	180	AUG-16
165	Palwal (Meghpur) - Meerpur Kurali	D/C	HVPNL	53	AUG-16
166	Boisar II-Borivali	M/C	MSETCL	331	AUG-16
167	LILO of Bhugaon - Pusad at Wardha (PG)	D/C	MSETCL	14	AUG-16
168	Bajakhana - Bagha Purana	D/C	PSTCL	71	AUG-16
169	LILO of Patiala - Mandi Gobindgarh at Rajpura	D/C	PSTCL	68	AUG-16
170	LILO of one ckt of Ganguwal - Gobindgarh-II at Bhari	D/C	PSTCL	6	AUG-16
171	Chatrail-Ramgarh	D/C	RVPNL	90	AUG-16
172	Chittorgarh - Sawa	D/C	RVPNL	53	AUG-16
173	LILO of 220 kV Jodhpur (220 kV GSS) - Pali at 400 kV GSS Jodhpur (New)	D/C	RVPNL	10	AUG-16
174	LILO of Kankroli (PG) -Debari at Amberi	D/C	RVPNL	30	AUG-16
175	Budidampadu - Bhongiri (2nd Ckt)	D/C	TSTRANSCO	14	AUG-16
176	Lower Jurala HEP - Upper Jurala	D/C	TSTRANSCO	21	AUG-16
177	Parigi - Kosigi line	D/C	TSTRANSCO	40	AUG-16
178	Hardoi - Shahjahanpur (PG) line	D/C	UPPTCL	60	AUG-16



179	Lucknow PG (400) - Kursi Road	D/C	UPPTCL	30	AUG-16
180	Roza - Dohna	D/C	UPPTCL	216	AUG-16
181	Chandrapur MIDC - Ballarshah (Ckt- I )	D/C	MSETCL	21	SEP-16
182	LILO of 230 kV Chekkanurani - TTPS (feeder-I) at 230 kV Kinnimangalam	D/C	TANTRANSCO	1	SEP-16
183	LILO 220 kV of Muradnagar - Shamli at Baghat	S/C	UPPTCL	1	SEP-16
184	LILO of 220 kV Mainpuri (PG) - Mainpuri line at Sirsaganj	D/C	UPPTCL	68	SEP-16
185	LILO of 220 kV Orai - Mainpuri line at Bah S/S	D/C	UPPTCL	157	SEP-16
186	Kishanganj (PG) - Kishanganj (New)	2xD/C	BSEB	16	OCT-16
187	LILO of Begusarai - Kanti at Samastipur	2xD/C	BSEB	24	OCT-16
188	Bhandup - Borivali line on M/C tower (from loc. no. 20 to 48)	S/C on M/C	MSETCL	9	OCT-16
189	Kalwa - Borivali line M/C tower (from loc no. 20 to 48)	S/C on M/C	MSETCL	9	OCT-16
190	LILO on 220kV Shivajinagar-Satana line (From loc.No.211) at 220kV Gangapur S/s	D/C	MSETCL	96	OCT-16
191	LILO of one ckt Jaipur (South) to Chaksu at Goner	D/C	RVPNL	58	OCT-16
192	Samatipur (New) s/s - Samastipur s/s (initially charged at 132 KV)	D/C	BSEB	25	NOV-16
193	Thallak - M/s BARC	D/C	KPTCL	22	NOV-16
194	LILO on 220 KV Pandharpur - Malinagar line for M/s Vittal SSK Co-generation Plant	D/C	MSETCL	2	NOV-16
195	Bidanasi -Cuttack	D/C	OPTCL	20	NOV-16
196	Pulichintala HEP - Huzurnagar line	D/C	TSTRANSCO	74	NOV-16
197	Gaddamvaripalli- Goddumari	D/C	APTRANSCO	9	DEC-16
198	LILO of Darbhanga - Kanti at Musahari	D/C	BSEB	90	DEC-16
199	Deepalpur - Sonipat (Sector- 6)	D/C	HVPNL	11	DEC-16
200	Deepalpur-Sonepat HSIIDC Rai ( terminated at Rajiv Gandhi s/s)	M/C	HVPNL	41	DEC-16
201	LILO of both Ckt of Cheeka - Durala at Sonta s/s	D/C	HVPNL	78	DEC-16
202	Bina s/s - M/s Bharat Oman Refineries Ltd. Agasod, Bina	D/C	MPPTCL	36	DEC-16
203	ACC Limited - LMEL Ghugus	S/C	MSETCL	2	DEC-16
204	Kalwa - Borivali (under Mumbai Strengthening)	S/C on M/C	MSETCL	3	DEC-16
205	LILO of (Existing) Budhipadar-Burla at Lapanga	D/C	OPTCL	7	DEC-16
206	LILO of Rengali - Tarkera at Bonai	D/C	OPTCL	6	DEC-16
207	Extension of Bikaner- Barsinghsar at Barsinghsar TPS	S/C	RVPNL	3	DEC-16
208	LILO of 220KV Jodhpur -400KV Jodhpur interconnector at 220KV Jhalamand	D/C	RVPNL	1	DEC-16
209	LILO of both ckts Ramgarh GTPS -Dechu at Ramgarh	D/C	RVPNL	1	DEC-16



210	Sitapura- Sitapura (Existing) (Upgradation)	D/C	RVPNL	1	DEC-16
211	Karamadai - Common Point	S/C	TANTRANSCO	21	DEC-16
212	LILO of Existing Ingur - Palladam at Kurukathi S/S	D/C	TANTRANSCO	62	DEC-16
213	LILO of Existing Trichy - Perambalur at Jambunathapuram S/S	D/C	TANTRANSCO	54	DEC-16
214	LILO of Korattur - Koyembedu at Ambattur (3rd Main Road)	D/C	TANTRANSCO	1	DEC-16
215	LILO of Siruseri - Tharamani at Sholinganallur	D/C	TANTRANSCO	5	DEC-16
216	Neyveli - Eachengadu S/S	S/C	TANTRANSCO	34	DEC-16
217	Thudiyalur s/s - Common point at loc. 81 to 148 (Associated line of Karamadai 400 KV s/s -single ckt only)	S/C	TANTRANSCO	19	DEC-16
218	Ghanapur - Marripally - Nagole (Uppal)	D/C	TSTRANSCO	36	DEC-16
219	Moulali - Osmania University	DC UG cable	TSTRANSCO	9	DEC-16
220	Mulund - Bhandup line	S/C on M/C	MSETCL	3	JAN-17
221	Hathras-Gokul line	S/C	UPPTCL	41	JAN-17
222	LILO of 220kV Orai - Bhauti at Orai	D/C	UPPTCL	8	JAN-17
223	Harsh Vihar - Patparganj line (U/G cable link)	D/C	DTL	29	FEB-17
224	Becharji - Maruti Suzuki line	D/C	GETCO	2	FEB-17
225	Interconnection of one ckt. of GSEG - Kosamba line with Essar - Ichhapore line	D/C	GETCO	1	FEB-17
226	Mitha - Becharji	D/C	GETCO	59	FEB-17
227	HSR Layout - Nimhans S/S (UG Cable)	UG Cable	KPTCL	11	FEB-17
228	LILO on one ckt of Nelamangala - Anchepalya line at Magadi	D/C	KPTCL	31	FEB-17
229	Karad - Koyna (Loc. 8 - 144) line	S/C on D/C	MSETCL	44	FEB-17
230	LILO of one ckt of Ramgarh GTPS - Dechu at Amarasagar	D/C	RVPNL	33	FEB-17
231	Kamudhi s/s - Tiruchulis/s (Muthuramlingapuram) - Ckt-I	D/C	TANTRANSCO	69	FEB-17
232	Chandrayanagutta - 220KV Imlibun GIS (UG Cable)	D/C	TSTRANSCO	10	FEB-17
233	Durshed - Siricilla line	D/C	TSTRANSCO	134	FEB-17
234	LILO of (Ckt-II) of Miryalaguda - Khammam at Suryapet S/S	D/C	TSTRANSCO	48	FEB-17
235	LILO of (Ckt-I) of Miryalaguda - Khammam at Suryapet S/S	D/C	TSTRANSCO	42	FEB-17
236	LILO of Ghanapur - Malkaram at Moulali	D/C	TSTRANSCO	9	FEB-17
237	LILO of Wanaparthy - Ragimanagadda at Singotam X Road SS	D/C	TSTRANSCO	10	FEB-17
238	LILO of one Ckt of Chilakallu - Narkatpally at Suryapet S/S	D/C	TSTRANSCO	24	FEB-17
239	RSS (Ramagundam TPS)- Nirmal line (2nd Ckt Stringing)	D/C	TSTRANSCO	140	FEB-17
240	LILO of Bakreswar - Gokarna at Sadaipur	D/C	WBSETCL	13	FEB-17





241	Botad - Parabadi (Ajmer) line (Ckt-1)	D/C	GETCO	64	MAR-17
242	Sadla - Maruti wind park line	S/C	GETCO	1	MAR-17
243	Visavadar - Amreli line	D/C	GETCO	132	MAR-17
244	LILo point to Phojal	D/C	HPPTCL	20	MAR-17
245	LILo of Somanahalli - Malur at Vikas Tech Park	D/C	KPTCL	16	MAR-17
246	Gwalior (Malanpur) - Morena line	D/C	MPPTCL	60	MAR-17
247	LILo of one ckt of 220KV Indore II(Jaitpura) to Indore 400KV at 220KV S/s NZ Indore	D/C	MPPTCL	20	MAR-17
248	Kharghar- Boriwali line	D/C	MSETCL	76	MAR-17
249	LILo of one ckt Bhigwan-Walchandnagar at Loni Deokar s/s (Ckt-1)	S/C on D/C	MSETCL	19	MAR-17
250	Lamboti -Vairag line (by making tap arrangement on 220kV Tuljapur- Vairag line for Vairag SS)	S/C on D/C	MSETCL	32	MAR-17
251	Balimela - Malkangiri line	S/C	OPTCL	22	MAR-17
252	Dehradun (PTCUL) - Dehradun (PGCIL) line	D/C	PTCUL	12	MAR-17
253	LILo of Jodhpur(400 kV)-Jodhpur 220 kV interconnector-II line for 220 kV GSS Barli	D/C	RVPNL	3	MAR-17
254	Morak - Bhawanimandi line	S/C	RVPNL	40	MAR-17
255	LILo of Eachangadu - Thatchankurichi at Poiyur 230 KV SS	D/C	TANTRANSCO	22	MAR-17
256	LILo of Korattur- Alamathy line at Ambattur 3rd Main Road 230 KV SS	D/C	TANTRANSCO	1	MAR-17
257	Palladam - Kurukathi Line	S/C	TANTRANSCO	78	MAR-17
258	LILo of 220 kV Sambhal-Badaun Line at Chandausi S/s	D/C	UPPTCL	33	MAR-17
259	LILo of I-Ckt. of Panki - Bhauti PG(400) line at Rania s/s	D/C	UPPTCL	33	MAR-17
260	Sohawal - Faizabad PG (400)	D/C	UPPTCL	47	MAR-17
261	LILo of Jeerat - Rishra 220 kV S/C Line at Dharampur	D/C	WBSETCL	2	MAR-17

**Total of State Sector 5917**

**Total of 220 kV 6030**

**GRAND TOTAL 26300**

**Transmission Lines Commissioned/ready for commission during – 2015-16  
(as on 31.3.2016)**

Sl. No.	Name of Transmission Lines	Circuit Type	Executing Agency	Line Length (CKm)	Month of Completion
1	2	3	4	5	6
<b>±800 kV</b>					
<b>CENTRAL SECTOR</b>					
1	+/- 800KV HVDC Biswanath Chariyali - Agra Bi-pole line	BIPOLE	PGCIL	3506	SEP-15
<b>Total of Central Sector</b>				<b>3506</b>	
<b>Total of ±800 kV</b>				<b>3506</b>	



<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
2	Sasan - Vindhyachal (PS)	S/C	PGCIL	6	APR-15
3	Meerut - Moga line	S/C	PGCIL	337	MAY-15
4	Raigarh Pooling Station (Near Kotra) - Champa Pooling Station line	S/C	PGCIL	96	MAY-15
5	Gwalior - Jaipur (Ckt 1)	S/C	PGCIL	305	AUG-15
6	Gwalior - Jaipur line (Ckt 2)	S/C	PGCIL	311	AUG-15
7	Jaipur - Bhiwani line	S/C	PGCIL	272	AUG-15
8	Rihand - Vindhyachal Pooling Station (2nd Ckt)	D/C	PGCIL	31	AUG-15
9	Vindhyachal Pooling Station - Satna Ckt-II	S/C	PGCIL	271	AUG-15
10	Aurangabad - Solapur line	D/C	PGCIL	556	SEP-15
11	Dharamjaygarh - Jabalpur Pooling Station line	D/C	PGCIL	848	SEP-15
12	Narendra (New, Kudgi) - Kolhapur (new)	D/C	PGCIL	374	NOV-15
13	Kurnool (New) - Raichur line	D/C	PGCIL	120	DEC-15
14	Ranchi (New) - Dharamjaygarh /Near Korba	S/C	PGCIL	341	DEC-15
15	Angul Pooling Station - Jharsuguda Pooling Station line-II	S/C	PGCIL	284	JAN-16
16	Balia - Varanasi	S/C	PGCIL	165	MAR-16
17	LILO of Gaya - Fatehpur at Varanasi line	S/C	PGCIL	7	MAR-16
<b>Total of Central Sector</b>				<b>4324</b>	
<b>PVT SECTOR</b>					
18	Jabalpur - Bhopal (BDTCL)	S/C	SGL	274	JUN-15
19	Jabalpur - Bina (JTCL)	S/C	SGL	245	JUN-15
20	Dhramjaygarh - Jabalpur (JTCL)	D/C	SGL	758	SEP-15
<b>Total of PVT Sector</b>				<b>1277</b>	
<b>Total of 765 kV</b>				<b>5601</b>	
<b>400 kV</b>					
<b>CENTRAL SECTOR</b>					
21	400 kV D/C trans. Line for swapping of Kahalgaon #1 bay with Sasaram# 1 bay at Biharshariff S/Stn.	D/C	PGCIL	20	APR-15
22	Bareilly - Kashipur line (Quad)	D/C	PGCIL	202	APR-15



23	Sholapur STPP - Sholapur line-I	D/C	PGCIL	22	APR-15
24	Barh-II - Gorakhpur	D/C	PGCIL	698	MAY-15
25	LILO of Moga - Bhiwani at Hissar line	D/C	PGCIL	4	JUN-15
26	LILO of One Ckt of Baripada - Mendhasal line at Dubri (OPTCL)	D/C	PGCIL	32	JUL-15
27	LILO of Dehar - Bhiwani at Rajpura (PSTCL)	S/C	PGCIL	29	JUL-15
28	Silchar - Purba Kanchan Bari line (charged at 132KV)	D/C	PGCIL	254	JUL-15
29	Vijayawada - Nellore line	D/C	PGCIL	661	JUL-15
30	LILO of 2nd ckt of Neyveli - Trichy at Nagapattnam	D/C	PGCIL	46	AUG-15
31	Salem Pooling Station - Salem	D/C	PGCIL	120	AUG-15
32	Balipara - Biswanath Chariyali	D/C	PGCIL	114	SEP-15
33	Mysore - Kozhikode	D/C	PGCIL	420	SEP-15
34	Bhiwani - Hissar line	D/C	PGCIL	113	OCT-15
35	LILO of Ranganadi - Balipara 400KV D/C line at Biswanath Chariyali (Pooling Point)	D/C	PGCIL	114	OCT-15
36	Gooty - Madhugiri	D/C	PGCIL	418	NOV-15
37	Kurukshetra - Jalandhar (Ckt-I)	D/C	PGCIL	266	NOV-15
38	LILO of Abdullapur - Sonapat at Kurukshetra (Tripal)	D/C	PGCIL	30	NOV-15
39	LILO of both ckt of Kolhapur - Mapusa at Kolhapur (new)	D/C	PGCIL	90	NOV-15
40	Narendra (New, Kudgi) - Narendra (Existing)	D/C	PGCIL	354	NOV-15
41	Kashipur - Roorkee line	S/C	PGCIL	302	DEC-15
42	Khamam - Nagarjunasagar line ( By Vizag Transmission Ltd.)	D/C	PGCIL	290	JAN-16
43	Kurukshetra - Jalandhar (Ckt-II)	D/C	PGCIL	265	JAN-16
44	Surjamaninagar (Tripura) - Indo-Bangladesh Border line (operated at 132 kV)	D/C	PGCIL	35	JAN-16
45	Ext. of one ckt Biharshariff - Sasaram at Varanasi (Q)	D/C	PGCIL	251	MAR-16
46	Kishanganj - Patna line (Quad)	D/C	PGCIL	692	MAR-16
47	LILO of Meerut - Kaithal at Bagpat (Ckt-I)	D/C	PGCIL	61	MAR-16



48	LILO of Sasaram - Allahabad at Varanasi (Q)	D/C	PGCIL	24	MAR-16
49	LILO of Siliguri (Existing) - Purnea at Kishanganj	D/C	PGCIL	16	MAR-16
50	NCC gen Sw Yd. - Nellore PS line (Q)	D/C	PGCIL	66	MAR-16
<b>Total of Central Sector</b>				<b>6009</b>	
<b>PVT SECTOR</b>					
51	LILO of both ckt, of Raigarh - Raipur at Akaltara TPP	2xD/C	KSK LTD.	71	APR-15
52	Jhabua Power TPS - Jabalpur Pooling Station.	D/C	JHAPL	131	MAY-15
53	Binjkote - Raigarh (Kotra) Pooling Station	D/C	SKS	55	MAY-15
54	KSK Mahanadi (Warda Power) - Champa Pooling Station	2xD/C	KSK LTD.	105	JUN-15
55	Raikheda (GMR) - Raipur Pooling Station	D/C	GMR ENERG	131	JUL-15
56	Rosa - Shahjehanpur (PG)	D/C	RPTL	16	JUL-15
57	Nasik - Bobleshwar (2nd Ckt)	D/C	IBPL	57	AUG-15
58	Kudgi STPS - Narendra	2xD/C	KTCL	36	AUG-15
59	LILO of one ckt Karcham wangto - Abdullapur at Sorang HEP	D/C	HSPPL	7	OCT-15
60	Rajgarh (PG) - Karamsad (GETCO)	D/C	RPTL	486	DEC-15
61	TRN (TPP) - Raigarh PS (Tamnar)	D/C	TRNE	30	JAN-16
<b>Total of PVT Sector</b>				<b>1125</b>	
<b>STATE SECTOR</b>					
62	LILO of One ckt of Korba (W) - Khedamara at Marwa	D/C	CSPTCL	116	MAY-15
63	Aurangabad (Ektuni - III) - Aurangabad -II (Thaptitanda) Ckt-II	S/C	MSETCL	5	MAY-15
64	LILO point of IEPL to LILO point of Warora-Wardha line	D/C	MSETCL	97	MAY-15
65	LILO of one ckt Palatana - Bongaigaon at Byrnihat line	D/C	MeECL	4	MAY-15
66	MTPS Stage-III - Thiruvalam (Ckt-II) (Balance)	D/C	TANTRANSCO	338	MAY-15
67	LILO of RTPS - Btps at YTPS	D/C	KPTCL	33	JUN-15
68	Karaikudi-Pugalur	D/C	TANTRANSCO	320	JUN-15
69	Krishnapatnam TPS- Chittoor(Balance)	D/C	APTRANSCO	180	JUL-15
70	Vizag TPP - Kalpaka	D/C	APTRANSCO	14	JUL-15



71	LILO of Moga-Hisar line at RGTPS Khedar	D/C	HVPNL	2	AUG-15
72	Meramundali-Duburi (1st Ckt)	D/C	OPTCL	192	AUG-15
73	Thiruvalem - Almathy	D/C	TANTRANSCO	143	AUG-15
74	Purushottapatnam (Nunna) - Jujjuru	D/C	APTRANSCO	112	OCT-15
75	Yemmiganur - Uravakonda	D/C	APTRANSCO	205	OCT-15
76	LILO of Kalpaka - Khammam at Asupaka	D/C	TSTRANSCO	34	OCT-15
77	Bikaner- Merta	S/C	RVPNL	172	NOV-15
78	LILO of Srisailam - Hyderabad (Ckt-I) at Yeddumailaram (Shankarapally)	D/C	TSTRANSCO	158	NOV-15
79	Singareni TPS (Jaipur TPP) - Gajwel	D/C	TSTRANSCO	325	NOV-15
80	Jammalamadugu - Narnur (Kurnool)	D/C	APTRANSCO	202	DEC-15
81	LILO of Bhiwani - Bahadurgarh (PGCIL) at Kaboolpur S/S	D/C	HVPNL	13	DEC-15
82	LILO of Koradi II- Wardh(PG) at Bela TPP	D/C	MSETCL	49	DEC-15
83	Ib-Meramundali (Loc No. 122/0 to Meramundali)	D/C	OPTCL	418	DEC-15
84	Koradi TPS - Wardha	D/C	MSETCL	144	JAN-16
85	Mundra (Adani) - Zerda line 2	D/C	GETCO	671	FEB-16
86	LILO of Chandrapur - Parli ckt-II at Kumbhargaoon (Nanded) S/S	D/C	MSETCL	88	FEB-16
87	LILO of VTS - Malkaram (Ckt-I) at Suryapet	D/C	TSTRANSCO	7	MAR-16
88	Anpara B-Anpara D (Ckt-I)	D/C	UPPTCL	5	MAR-16
<b>Total of State Sector</b>				<b>4047</b>	
<b>Total of 400 kV</b>				<b>11181</b>	
<b>220 kV</b>					
<b>CENTRAL SECTOR</b>					
89	Rangpo - New Melli line (Twin Moose) (20.5 D/C & 1.5 M/C)	MC+D/C	PGCIL	54	MAY-15
90	Mariani (New) - Mokikchung (PG)	D/C	PGCIL	97	JUN-15
91	Kodarma-Giridih	D/C	DVC	212	AUG-15
92	LILO of Siliguri - Dalkhola line at New Pooling Station Kishanganj	D/C	PGCIL	36	MAR-16
<b>Total of Central Sector</b>				<b>399</b>	



STATE SECTOR					
93	LILO of Korba - Vishrampur at Churri	D/C	CSPTCL	30	APR-15
94	Mundka -Peeragarhi U/G 200 mm, 250 MW	D/C	DTL	26	APR-15
95	LILO of Asoj - Karamsad at Mogar S/S	D/C	GETCO	15	APR-15
96	LILO of Shivilakha - Deodhar line at PS-2	D/C	GETCO	56	APR-15
97	Gurgaon Sector 72 (PGCIL) - Gurgaon Sector 72 (HVPNL)	D/C	HVPNL	1	APR-15
98	Gurgaon Sector 72 (PGCIL) - Gurgaon Sector 33 (HVPNL)	D/C	HVPNL	7	APR-15
99	LILO of Badshahpur - Bhiwadi - Mau line at Panchgaon	D/C	HVPNL	3	APR-15
100	LILO of Bina - Gwalior at Datia	D/C	MPPTCL	2	APR-15
101	Ahmednagar - Jeur (Kaudgaon)	S/C	MSETCL	53	APR-15
102	Babhaleshwar - Jeur (Kaudgaon)	S/C	MSETCL	87	APR-15
103	LILO of Waluj Bahaleshwar - Deogaon Rangari S/S	D/C	MSETCL	26	APR-15
104	Tapping on Lonand Kandalgaoon for Lonand MIDC	S/C	MSETCL	1	APR-15
105	LILO of Both Ckt Malerkotla - Barnala at Sandhaur	D/C	PSTCL	12	APR-15
106	LILO of Both Ckt Malerkotla - Pakhowal at Sandhaur	D/C	PSTCL	13	APR-15
107	Sanganer- Sitapura (Upgradation) Ckt-II	D/C	RVPNL	11	APR-15
108	Kadapperi - Guindy (UG Cable)	S/C	TANTRANSCO	14	APR-15
109	LILO of 1st ckt of Shapurnagar - Gachibowilly line at Miyapur	D/C	TSTRANSCO	2	APR-15
110	Mamidipally - Fab city	D/C	TSTRANSCO	6	APR-15
111	LILO of Muzaffarnagar - Nara II at Jansath Ckt-II	D/C	UPPTCL	20	APR-15
112	Lalitpur - Lalitpur TPS (Ckt-II)	D/C	UPPTCL	19	APR-15
113	Muzaffarnagar - Nara Ckt-II	D/C	UPPTCL	12	APR-15
114	Masudpur-Samain line	D/C	HVPNL	91	MAY-15
115	Bhatinda - Mukatsar (2nd CKt)	D/C	PSTCL	23	MAY-15
116	LILO of one ckt Kotputli -Manoharpur at Kotputli (PG)	D/C	RVPNL	12	MAY-15
117	LILO of one ckt Neemrana -Kotputli at Behror	D/C	RVPNL	31	MAY-15



118	LILLO of Shapur Nagar - Gachilbowli feeder at GIS Erragadda SS	DC UG cable	TSTRANSCO	19	MAY-15
119	Charanka - Jangral	D/C	GETCO	193	JUN-15
120	SSNNL PS-I - PS-2 (ACSR Zebra conductor)	D/C	GETCO	22	JUN-15
121	Dumka - Rupnarayanpur	D/C	JSEB	147	JUN-15
122	Damoh - Tikamgarh (2nd Ckt)	D/C	MPPTCL	158	JUN-15
123	LILLO of Rewa - Ton at Sirmour	D/C	MPPTCL	10	JUN-15
124	Chinchwad - Apta	M/C	MSETCL	30	JUN-15
125	LILLO (Tapping) of Dhule - Malegaon at Sayne	S/C	MSETCL	5	JUN-15
126	Shedyal - Jath line	D/C	MSETCL	37	JUN-15
127	Shivajinagar - Malegaon	S/C	MSETCL	114	JUN-15
128	Shivajinagar - Satana	S/C	MSETCL	96	JUN-15
129	Atri - Pandiabil	D/C	OPTCL	45	JUN-15
130	Talwandi - Dharamkot	D/C	PSTCL	63	JUN-15
131	LILLO of Ajmer -Kishangarh line at Ajmer	D/C	RVPNL	11	JUN-15
132	LILLO of Khetri - Heerapura line at Babai	D/C	RVPNL	5	JUN-15
133	LILLO of Kuchamancity -Dhod at Deedwana	D/C	RVPNL	88	JUN-15
134	Arasur 400 kV S/S - Karamadai 230 kV S/S	S/C	TANTRANSCO	39	JUN-15
135	LILLO of Kanjhawala - Najafgarh at Mundka 400 kV S/S	D/C	DTL	11	JUL-15
136	LILLO of AD Hydro-Nalagarh at Fozal	D/C	HPPTCL	13	JUL-15
137	Mau - Balwal	D/C	HVPNL	37	JUL-15
138	LILLO of Kandalgaon - Lonand at Lonand MIDC	D/C	MSETCL	8	JUL-15
139	Puri (Samangra) - Pandiabil	D/C	OPTCL	92	JUL-15
140	LILLO of Dhuri - Bangan at Chhajali (Loop in)	D/C	PSTCL	29	JUL-15
141	LILLO of Mandawar -Nadbai- Bharatpur at Chonkarwada	D/C	RVPNL	5	JUL-15
142	LILLO of Alamathy - Koyembedut Thiruverkkadu	D/C	TANTRANSCO	2	JUL-15
143	LILLO of Kalivanthapattu - Veerapuram at OMEGA	D/C	TANTRANSCO	39	JUL-15



144	LILo of Neyveli Zero unit - Neyveli - TS-II at Ulundurpet	S/C	TANTRANSCO	52	JUL-15
145	LILo of Shoologiri - Singarapet at Gurabarapally	D/C	TANTRANSCO	2	JUL-15
146	LILo of Ulundurpet - STCMS at Ulundurpet	D/C	TANTRANSCO	68	JUL-15
147	LILo of both ckt Dindi - Chandrayangutta at Bonguloor	D/C	TSTRANSCO	2	JUL-15
148	LILo of One Ckt Langpi - Sarusajai at Sonapur	D/C	AEGCL	2	AUG-15
149	LILo of Pusouli (PG) - Ara (PG) at Pusouli (New)	D/C	BSEB	5	AUG-15
150	LILo of Raigarh - Budipadar line at Raigarh (PG)	D/C	CSPTCL	18	AUG-15
151	LILo of Kangasiyali - Nyara at Hadala	D/C	GETCO	33	AUG-15
152	LILo of one ckt Halvad - Morbi line to Bhimasar (PG) at Charadava S/S	D/C	GETCO	2	AUG-15
153	Sikka - Moti Paneli line	D/C	GETCO	157	AUG-15
154	LILo of Chinchwad - Phursungi at Kondhwa	D/C	MSETCL	1	AUG-15
155	LILo of Mhaisal - Jath at Mendhegiri S/S (Ckt-I)	D/C	MSETCL	20	AUG-15
156	Nanded - Waghala	D/C	MSETCL	30	AUG-15
157	Mukatsar - Abohar	D/C	PSTCL	87	AUG-15
158	Kotputli (PG) - Bansur	D/C	RVPNL	84	AUG-15
159	LILo of KTPS - Sanganer line at Vatika	D/C	RVPNL	11	AUG-15
160	LILo of Korattur - Koyambedu at Alamathy	D/C	TANTRANSCO	6	AUG-15
161	LILo of Manali - Basin Bridge (BBGTP) at Vyasarpadi	D/C	TANTRANSCO	1	AUG-15
162	Thimmapuram- Yellanur	D/C	APTRANSCO	8	SEP-15
163	Gurgaon Sector 72 - Nuh - Rangla Raipur (Ckt-I & II)	D/C	HVPNL	146	SEP-15
164	Sawangi - Bhokardhan	D/C	MSETCL	134	SEP-15
165	Debari - Salumber (2nd Ckt)	D/C	RVPNL	64	SEP-15
166	LILo of Korattur - Koyambedu at Alamathy (Balance Portion)	D/C	TANTRANSCO	23	SEP-15
167	220 kV LOC 49 of Roza-Hardoi to 220 Shahjehanpur	D/C	UPPTCL	20	SEP-15
168	LILo of Harduaganj- Khair (Aligarh) line at Boner	D/C	UPPTCL	6	SEP-15
169	LILo of khurja-NAPP-I line at Debai	D/C	UPPTCL	1	SEP-15





170	Amreli - Sukhpar line	D/C	GETCO	80	OCT-15
171	Chharodi - Ford line	D/C	GETCO	38	OCT-15
172	LILO on one ckt of Jamanwada - Varsana line at Ukheda S/s	D/C	GETCO	10	OCT-15
173	Varsana - Jamanwada line	D/C	GETCO	348	OCT-15
174	Ghatodi - Hingoli line	S/C	MSETCL	86	OCT-15
175	Khanapur length tap to Vita - Lamboti line	D/C	MSETCL	47	OCT-15
176	Jalore - Sayla	S/C	RVPNL	54	OCT-15
177	Neemrana-(PG)-Behror	D/C	RVPNL	54	OCT-15
178	Tehandesar(proposed)-Badnu	S/C	RVPNL	32	OCT-15
179	LILo of Alamathy - CMRL Koyembedu at Thiruverkkadu	D/C	TANTRANSCO	9	OCT-15
180	Kharagpur - Vidyasagar Park	D/C	WBSETCL	92	OCT-15
181	Appannadorapalem - Bobbili (Ckt-I)	D/C	APTRANSCO	84	NOV-15
182	Chhuri - Mopka (Bilaspur)	D/C	CSPTCL	189	NOV-15
183	Bhadreshwar - Varsana line	D/C	GETCO	104	NOV-15
184	Varsana - Mokha	D/C	GETCO	109	NOV-15
185	LILo of Sawangi - Bhokardan at Phulambri	D/C	MSETCL	11	NOV-15
186	New Bhusawal - Chalisgaon	D/C	MSETCL	258	NOV-15
187	Hindaun -Chonkarwada	D/C	RVPNL	72	NOV-15
188	LILo of Alwar -Kotputli at Bansur	D/C	RVPNL	2	NOV-15
189	Sanganer-Chaksu (Upgradation)	D/C	RVPNL	66	NOV-15
190	Badaun - Sambhal	S/C	UPPTCL	86	NOV-15
191	Gokarna - Krishnanagar	D/C	WBSETCL	210	NOV-15
192	LILo of existing Kalikiri - C.K.Palli at Thimmapuram S/S	D/C	APTRANSCO	2	DEC-15
193	A5(Faridabad) - A4(Faridabad) (Ckt-II)	D/C	HVPNL	8	DEC-15
194	LILo of one ckt Badshahpur - Mau - Bhiwadi at HSIIDC Bawal	D/C	HVPNL	39	DEC-15
195	Bagalkot - Gadag	D/C	KPTCL	193	DEC-15



196	LILO of Arasikere -Kanthenahalli at Arasikere S/S	D/C	KPTCL	8	DEC-15
197	LILO of Hubli - Lingapur 2nd Ckt at Gadag	D/C on M/C	KPTCL	15	DEC-15
198	LILO of Peenya - Hoody at Chikkabettahalli	M/C	KPTCL	11	DEC-15
199	Hinjewadi -II (400 kV) - Hinjewadi-II (220 kV) S/S	D/C	MSETCL	8	DEC-15
200	LILO of Amravati - Badnera line at Nandgaon Peth.	D/C	MSETCL	62	DEC-15
201	Goindwal Sahib - Chola Sahib	D/C	PSTCL	55	DEC-15
202	LILO of Nagaur -Merta at Kuchera	D/C	RVPNL	17	DEC-15
203	MTPS Stage-III - Thingalur	S/C	TANTRANSCO	92	DEC-15
204	LILO of 220 kV of Shamshabad - Firozabad at Agra (400 kV)	D/C	UPPTCL	6	DEC-15
205	LILO of Sarnath (400) - Azamgarh at Harhua	S/C	UPPTCL	42	DEC-15
206	LILO of both ckt of Balipara (PG) Samaguri at Sonabil	2xD/C	AEGCL	6	JAN-16
207	Namrup - Mariani	S/C	AEGCL	145	JAN-16
208	Kasor - Herang line	D/C	GETCO	39	JAN-16
209	Chikkodi-Kudachi	D/C	KPTCL	70	JAN-16
210	Kapnoor - Humnabad line	D/C	KPTCL	106	JAN-16
211	LILO of 220 kV Lonikand - Kathapur line at Lonikand-II	D/C	MSETCL	2	JAN-16
212	LILO of RSS - Warangal at Manthani	D/C	TSTRANSCO	60	JAN-16
213	LILO of Sultanpur - Phoolpur at Pratapgarh	D/C	UPPTCL	46	JAN-16
214	Pulivendula-Hindupur	D/C	APTRANSCO	250	FEB-16
215	Peeragarhi-Wazirpur U/G 1000 mm, 200 MW	D/C	DTL	17	FEB-16
216	LILO of Narendrapur - Mendhasal at Attrri (Old Karadagadia)	D/C	OPTCL	5	FEB-16
217	Teesta LDP - IV - New Jalpaiguri (NJP)	D/C	WBSETCL	145	FEB-16
218	Kanti - Gopalganj (2nd Ckt.)	S/C	BSEB	101	MAR-16
219	Chaibasa - Chaibasa line	D/C	JSEB	1	MAR-16
220	Varahi -Khemar- Kavoor in the existing 110 kV corridor(balance portion)	D/C on M/C	KPTCL	245	MAR-16
221	LILO of One ckt of Bina - Guna at Ashoknagar	S/C	MPPTCL	8	MAR-16



222	Bhigwan - Walchandnagar	D/C	MSETCL	54	MAR-16
223	Bridgestone-II - Chakan-II	D/C	MSETCL	10	MAR-16
224	Diversion of Bhusawal - Chalisgaon along with existing Bhusawal - Chalisgaon line	D/C	MSETCL	1	MAR-16
225	Koradi TPS-New Khaparhkeda	D/C	MSETCL	28	MAR-16
226	Kumbhargaoon - Waghala	D/C	MSETCL	31	MAR-16
227	LILO of Beed - Patoda at Manjarsumbha	D/C	MSETCL	9	MAR-16
228	LILO of Chitegaon - Shendra at Chitepimpalgaon (PG)	D/C	MSETCL	2	MAR-16
229	LILO of Kanhan - Bhandara at M/s Ultratech cement	D/C	MSETCL	1	MAR-16
230	LILO of One Ckt of Kolhapur - Sawantwadi at Mudhaltitta (Bidri)	D/C	MSETCL	13	MAR-16
231	LILO of Vita - Pandharpur at Bhalwani	D/C	MSETCL	26	MAR-16
232	Lamboti - Tuljapur	D/C	MSETCL	77	MAR-16
233	Lonikand-I - Lonikand -II	D/C	MSETCL	3	MAR-16
234	Nanded - Bhokar	D/C	MSETCL	74	MAR-16
235	Balchak - Naraingarh	D/C	PSTCL	33	MAR-16
236	LILO of Heerapura - Babai at Niwana	D/C	RVPNL	1	MAR-16
237	Renwal -Danta Ramgarh	S/C	RVPNL	33	MAR-16
238	Avadi-Ayappakkam line	S/C	TANTRANSCO	3	MAR-16
239	LILO of Arasur (PG) - Karamadai at Karuvalur	D/C	TANTRANSCO	1	MAR-16
240	LILO of K.R. Thoppur - Ingur at Thingalur	D/C	TANTRANSCO	44	MAR-16
241	Gajokhar-Jaunpur	S/C on D/C	UPPTCL	37	MAR-16
242	LILO of Harduagani - Hathras at Aligarh	D/C	UPPTCL	43	MAR-16
243	Shahjahanpur - Nighasan	S/C	UPPTCL	155	MAR-16
244	LILO of one ckt of Jeerat - Rishra at Dharampur	S/C	WBSETCL	4	MAR-16



245	Subhasgram- Sainatala	D/C	WBSETCL	25	MAR-16
<b>Total of State Sector</b>				<b>7427</b>	
<b>Total of 220 kV</b>				<b>7826</b>	
<b>Grand Total</b>				<b>28114</b>	
<b>Transmission Lines Commissioned/ready for commission during - 2014-15 (as on 31.3.2015)</b>					
Sl. No.	Name of Transmission Lines	Circuit Type	Executing Agency	Line Length (cKM)	Month of Completion
1	2	3	4	5	6
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Bina - Gwalior line (3rd Ckt)	S/C	PGCIL	231	MAY-14
2	Champa Pooling Station - Dharamjaygarh / Near Korba Switching Station line	S/C	PGCIL	62	MAY-14
3	Champa Pooling Station - Raipur Pooling Station line	D/C	PGCIL	298	MAY-14
4	Indore - Vadodara	S/C	PGCIL	320	MAY-14
5	Kurnool - Raichur (IInd Ckt)	S/C	PGCIL	118	JUN-14
6	Rihand - Vindhyachal Pooling Station (1st Ckt)	S/C	PGCIL	31	JUN-14
7	Jharsuguda Pooling Station Dharamjaygarh line.	D/C	PGCIL	300	JUL-14
8	Wardha - Aurangabad-I	D/C	PGCIL	690	JUL-14
9	Satna - Gwalior line (60 Km D/C Portion) Ckt-II	D/C+S/C	PGCIL	300	AUG-14
10	Kurnool - Nellore	D/C	PGCIL	602	OCT-14
11	Kurnool - Thiruvalem line	D/C	PGCIL	710	NOV-14
12	Raipur Pooling Station - Wardha line	D/C	PGCIL	736	NOV-14
13	Sholapur - Pune	S/C	PGCIL	268	FEB-15
14	Angul Pooling Station - Jharsuguda Pooling Station line-I	S/C	PGCIL	274	MAR-15
15	Vindhyachal Pooling Station - Satna line (2 Km D/C Portion) Ckt-I	D/C+S/C	PGCIL	271	MAR-15
16	Wardha - Aurangabad -II	D/C	PGCIL	701	MAR-15
<b>Total of Central Sector</b>				<b>5912</b>	
<b>PVT SECTOR</b>					
17	Raichur - Sholapur line	S/C	RSTCL	208	JUN-14
18	Akola - Aurangabad line ckt-I	S/C	APL	219	AUG-14
19	Aurangabad - Dhule (BDTCL)	S/C	SGL	192	OCT-14
20	Bhopal - Indore (BDTCL)	S/C	SGL	176	OCT-14



21	Dhule - Vadodara (BDTCL)	S/C	SGL	263	FEB-15
22	Tiroda - Koradi - Akola - Aurangabad line ckt-II	S/C	APL	575	MAR-15
<b>Total of PVT Sector</b>				<b>1633</b>	
<b>STATE SECTOR</b>					
23	Anpara C - Anpara D	S/C	UPPTCL	3	JUN-14
<b>Total of State Sector</b>				<b>3</b>	
<b>Total of 765 kV</b>				<b>7548</b>	
<b>400 kV</b>					
<b>CENTRAL SECTOR</b>					
24	Aurangabad (PG)-Aurangabad (MSETCL)	D/C	PGCIL	118	APR-14
25	LILO of Teesta-V Siliguri line at Rangpo (1 D/C & 1.5 M/C)	D/C	PGCIL	7	APR-14
26	Nellor - Thiruvalem (Quad) line	D/C	PGCIL	352	APR-14
27	LILO of 2nd Ckt of Lucknow - Bareilly line (PG) at Shahjahanpur	D/C	PGCIL	25	JUN-14
28	LILO of Neyveli - Trichy at Nagapattanam Pooling station	S/C	PGCIL	46	JUN-14
29	Thiruvalem - Sholinganallur line	D/C	PGCIL	228	JUL-14
30	Anuppur (Moser Baer) - Jabalpur Pooling Station	D/C	PGCIL	492	AUG-14
31	Dadr-Loni (Harsh Vihar)	S/C	NTPC Ltd.	108	SEP-14
32	Koderma - Gaya (Balance part)	D/C	PGCIL	152	SEP-14
33	Maithon -Gaya line (Balance part)	D/C	PGCIL	130	SEP-14
34	Balipara - Bongaigaon	D/C	PGCIL	609	OCT-14
35	LILO of Both Ckt Jamshedpur - Rourkela line at Chaibasa	D/C	PGCIL	56	OCT-14
36	LILO of Nathpa Jhakri - Nalagarh at Rampur (2nd Ckt balance)	D/C	PGCIL	2	OCT-14
37	LILO of Teesta-V Siliguri line at Rangpo (2nd ckt balance)	D/C	PGCIL	5	OCT-14
38	LILO of Navsai - Boisar at Magarwada	D/C	PGCIL	16	NOV-14
39	Bokaro TPS Extn.- Koderma TPS	D/C	PGCIL	200	DEC-14
40	Sagardighi - Baharampur	D/C	PGCIL	52	DEC-14
41	Bachou - Varsana line	D/C	PGCIL	20	JAN-15
42	LILO of both ckts of Tuticorin JV - Maduri at Tuticorin Pooling station	D/C	PGCIL	9	JAN-15
43	Sikar - Ratnagarh line	D/C	PGCIL	156	JAN-15
44	LILO of Parli - Pune at Pune	D/C	PGCIL	39	FEB-15
45	LILO of Dehar - Panipat at Panchkula	D/C	PGCIL	18	MAR-15
46	Silchar - Imphal (New) line (to be charged at 132KV)	D/C	PGCIL	334	MAR-15



Total of Central Sector				3174	
<b>JOINT SECTOR</b>					
47	Koldam - Ludhinana (JV Portion)	D/C	PKTCL	301	SEP-14
48	Parbati -II- Koldam line -II	S/C	PKTCL	76	SEP-14
49	Parbati- II - Koldam line-I	S/C	PKTCL	81	OCT-14
Total of Joint Sector				458	
<b>PVT SECTOR</b>					
50	LILO of ACBIL-Baraari (Bilaspur) PS at Bandakhar (Maruti Clean Coal)	D/C	MCCPL	6	JUN-14
51	Byrnihat - Azara (2nd Ckt) (Part of Silchar - Azara)	S/C	NETC	42	JUL-14
52	Bhopal - Bhopal (BDTCL)	D/C	SGL	17	JUL-14
53	DB Power (Baradarha) - Raigarh (Kotra) Pooling Station	D/C	DBPCL	36	AUG-14
54	LILO of one ckt of Bhadravati (PG) - Parli at Dhariwal	D/C	DIPL	31	AUG-14
55	Derang - Angul Pooling Station	MC+D/C	JPL	154	AUG-14
56	Dhule (IPTC) - Dhule (MSETCL) (BDTCL)	D/C	SGL	35	SEP-14
57	Bongaigoan - Siliguri Line (ENICL)	D/C	SGL	443	NOV-14
58	Kamalanga (GMR) - Angul pooling station	D/C	GMR ENERG	60	DEC-14
59	Haldia - Subhasgram line	D/C	CESC	178	JAN-15
60	Dhariwal TPS -Channdrapur II (2nd Ckt)	S/C	DIPL	10	JAN-15
61	Tamnar TPP - Raigarh (Tamnar) Pooling Station	2xD/C	JPL	44	JAN-15
62	Bina TPS - Suitable location (along Bina (PG) - Bina (MPPTCL)	D/C	JV(PG&JP)	40	JAN-15
63	Termination of Ckt of above at Bina (PG) & otuer ckt at Bina (MPTCL)	D/C	JV(PG&JP)		JAN-15
64	Azara - Bongaigaon (2nd Ckt)	D/C	NETC	159	JAN-15
65	Amravati - Akola (Bableswhar) - I	D/C	IBPL	207	MAR-15
66	Satpura - Ashta	D/C	KPTL	482	MAR-15
67	Azara - Bongaigaon	D/C	NETC	201	MAR-15
Total of PVT Sector				2145	
<b>STATE SECTOR</b>					
68	Moga- Nakodar	D/C	PSTCL	128	APR-14
69	LILO of Waluj - Bhusawal at Thaptitanda	D/C	MSETCL	154	MAY-14
70	Thaptitanda (Aurangabad -II) - Ektuni	D/C	MSETCL	9	MAY-14
71	Nakodar - Makhu line	D/C	PSTCL	105	MAY-14
72	Rajpura Thermal - Nakodar	D/C	PSTCL	279	MAY-14
73	Babhaleshwar - Aurangabad II	D/C	MSETCL	254	JUL-14
74	Mukatsar -Makhu	D/C	PSTCL	191	JUL-14
75	Karaikudi - Kayathar	D/C	TANTRANSCO	390	JUL-14
76	Pugalur - Ottiyambakkam - Kalivanthapattu (Melakottaiyur)	D/C	TANTRANSCO	727	JUL-14



77	Kosamba-Chorania line	D/C	GETCO	460	AUG-14
78	Talwandi Sabo-Mukatsar	D/C	PSTCL	201	SEP-14
79	Chhegaon - Julwania	D/C	MPPTCL	225	NOV-14
80	LILO of Muzaffarnagar -Vishnuprayag at Srinagar	D/C	UPPTCL	7	NOV-14
81	LILO of Palatana - Bongaigaon at Azara S/S	D/C	AEGCL	7	JAN-15
82	Chhabra TPS - Anta (Baran)	D/C	RVPNL	179	JAN-15
83	MTPS Stage-III - Thiruvalam	D/C	TANTRANSCO	204	JAN-15
84	LILo of Panki - Muradnagar at Aligarh	D/C	UPPTCL	66	JAN-15
85	Bonapally - Chittoor (Quad)	D/C	APTRANSCO	196	FEB-15
86	LILo of Mundra - Chorania at Halvad S/S	D/C	GETCO	4	FEB-15
87	a) Jujjuru - Sattenapalli (b) LILo of VTS - Srisaillam line at Sattenapalli	D/C	APTRANSCO	134	MAR-15
88	Mundra - Zerda line (Terminated at Varsana)	D/C	GETCO	161	MAR-15
89	Bara - Meza line	D/C	UPPTCL	65	MAR-15
90	LILo of Panki - Obra at Rewa Road	D/C	UPPTCL	1	MAR-15
91	Rewa Road - Meza line	D/C	UPPTCL	68	MAR-15
<b>Total of State Sector</b>				<b>4215</b>	
<b>Total of 400 kV</b>				<b>9992</b>	
<b>220 kV</b>					
<b>CENTRAL SECTOR</b>					
92	Gola - Ramgarh	D/C	DVC	74	MAY-14
93	LILo of Ckt-II Jullandhur - Hamirpur at Hamirpur (PG)	D/C	PGCIL	19	FEB-15
<b>Total of Central Sector</b>				<b>93</b>	
<b>PVT SECTOR</b>					
94	GEPL -MIDC S/S	D/C	GEPL	20	SEP-14
<b>Total of Pvt. Sector</b>				<b>20</b>	
<b>STATE SECTOR</b>					
95	LILo of Moga - Ferozepur at Talwandi Bhai	D/C	PSTCL	4	APR-14
96	LILo of Debari - Banswara at Madri (Udaipur)	D/C	RVPNL	34	APR-14
97	LILo of Arasur-Ingur at Karamadai S/S	D/C	TANTRANSCO	5	APR-14
98	LILo of Muradnagar - Modipuram at Faridnagar	S/C	UPPTCL	31	APR-14
99	Dhuri (Bhalwan) - Dhanaula	D/C	PSTCL	75	MAY-14
100	LILo of Dhuri - Bangan at Chhajali (Loop out)	S/C	PSTCL	27	MAY-14
101	Nakodar - Nurmehal	D/C	PSTCL	30	MAY-14
102	Ajari - Bhadla line	D/C	RVPNL	48	MAY-14
103	Bap-Ajari line	D/C	RVPNL	57	MAY-14



104	LILO of Ratangarh -Bikaner at Bandnu	D/C	RVPNL	42	MAY-14
105	Narasaraopet - Parchur	D/C	APTRANSCO	106	JUN-14
106	Makhu - Dharam kot	D/C	PSTCL	42	JUN-14
107	Patti - Algon (2nd Ckt)	S/C	PSTCL	20	JUN-14
108	LILO of Khodri - Rishikesh at Dehradun	D/C	PTCUL	5	JUN-14
109	Lalitpur TPS - Jhansi	D/C	UPPTCL	185	JUN-14
110	Terminating tower point - HSR Layout (Cable work)	UG Cable	KPTCL	3	JUL-14
111	LILO of Baja khana - Mukatsar at Kotkapura	D/C	PSTCL	3	JUL-14
112	Kashipur - Mahuakheraganj	D/C	PTCUL	34	JUL-14
113	LILO of Kayathar - Anuppankulam at Kayathar	D/C	TANTRANSCO	4	JUL-14
114	LILO of Kayathar - Pasumalai at Kayathar	D/C	TANTRANSCO	4	JUL-14
115	LILO of Thudiyalur - Othakalmandapam at Coimbatore	D/C	TANTRANSCO	10	JUL-14
116	Korba -Vishrampur	S/C	CSPTCL	153	AUG-14
117	LILO of Raigarh - Jindal (Tamnar) at Girwani	D/C	CSPTCL	15	AUG-14
118	Shalimar bagh - Wazirpur, U/G,1000 mm, 200 MW	D/C	DTL	8	AUG-14
119	LILO of GAVASAD - SLPP at Karjan	D/C	GETCO	23	AUG-14
120	LILO of Karamsad-Vartej at Dhuvaran CCPP-III	D/C	GETCO	78	AUG-14
121	LILO of Dausa -Alwar at Alwar	D/C	RVPNL	9	AUG-14
122	LILO of Mandawar-Alwar (MIA) at Alwar	D/C	RVPNL	1	AUG-14
123	LILO of Thiruvalam - Kanchipuram SP Koil at Thiruvalam	D/C	TANTRANSCO	10	AUG-14
124	LILO of Harduagani - Hathras at Khair	D/C	UPPTCL	75	AUG-14
125	LILO of Rewan Road - Fatehpur at Sirathu	S/C	UPPTCL	6	AUG-14
126	Hura - Raghunathpur	D/C	WBSETCL	67	AUG-14
127	BTPS-Agia-Sarusajai (2nd Circuit, Balance portion)	S/C	AEGCL	65	SEP-14
128	LILO of Budidampad - Bhongiri at Weddekothapally	D/C	APTRANSCO	14	SEP-14
129	Kanti - Darbhanga (2nd Ckt)	S/C	BSEB	68	SEP-14
130	LILO of Bawana-Najafgarh at Kanjhawla	D/C	DTL	6	SEP-14
131	Maharani Bagh- Gazipur (0.5kM cable on Maharani Bagh side & 8.5kM OH line)	D/C	DTL	19	SEP-14
132	LILO of New Pallom- Kayamkulam at Punnapra	D/C	KSEB	36	SEP-14
133	Khaperkheda - Butibori -I	D/C	MSETCL	126	SEP-14
134	Purti - Butibori - III	D/C	MSETCL	78	SEP-14
135	Bhawad - Bhopalgarh	D/C	RVPNL	93	SEP-14
136	Ghazipur - Rasra	S/C	UPPTCL	59	SEP-14





137	LILO of Obra - Allahabad II Ckt at Mizrapur	D/C	UPPTCL	8	SEP-14
138	LILO of Thiruvalem - Singarapet at Thiruvalem	D/C	TANTRANSO	20	OCT-14
139	LILO of Moradabad - CB Ganj at Rampur	D/C	UPPTCL	24	OCT-14
140	LILO of Muzaffarngr - Nara -II ckt at Jansath	D/C	UPPTCL	20	OCT-14
141	Puricha - Jhansi	D/C	UPPTCL	14	OCT-14
142	Manubolu - Sullurpeta	D/C	APTRANSO	136	NOV-14
143	LILO of one ckt of Badshahpur - Bhiwadi at HSIIDC Bawal	D/C	HVPNL	36	NOV-14
144	Daloda - Mandsaur	D/C	MPPTCL	14	NOV-14
145	LILO of Jabalpur (Sukha) - Birsinghpur / Amarkantak at Panagar	D/C	MPPTCL	7	NOV-14
146	LILO of Jeur - Karkambh at Shinde SKS	D/C	MSETCL	5	NOV-14
147	Aau-Baithwasia	D/C	RVPNL	93	NOV-14
148	Bhawad-Baithwasia	D/C	RVPNL	66	NOV-14
149	Jaipur (South -PG) - Vatika line	D/C	RVPNL	56	NOV-14
150	LILO of Ajmer -Beawer line at Ajmer	D/C	RVPNL	38	NOV-14
151	LILO of Bhilwara -Bali at Bamantukda	D/C	RVPNL	26	NOV-14
152	LILO of Duni - SEZ(220 KV GSS) line at Jaipur (south)(PG)	D/C	RVPNL	55	NOV-14
153	Ramgarh (GTPP) - Chandan	D/C	RVPNL	194	NOV-14
154	Harduaganj - Jahangirabad	D/C	UPPTCL	99	NOV-14
155	LILO of Tanda - Sultanpur at Tanda(New)	D/C	UPPTCL	8	NOV-14
156	LILO of Morbi - Lalpar at Sartanpar	D/C on M/C	GETCO	17	DEC-14
157	LILO of Tappar - Nani Khakhar at Mokha	D/C	GETCO	21	DEC-14
158	220 kV Apta - Kalwa line at Loc. No 647& 652 & 220 kV Kalwa - Taloja at Loc. No. 652 to 654 for Metra Rail Depot	S/C	MSETCL	4	DEC-14
159	Khadaki (VSNL - Dighi) - Theur-II line from Lonikand -I to Lonikand-II S/S	S/C	MSETCL	1	DEC-14
160	LILO of Hinjewadi - Infosys line at Pegasus	D/C	MSETCL	6	DEC-14
161	LILO of Kolhapur II - Mumewadi at Ghorpade	D/C	MSETCL	7	DEC-14
162	Shifting & height raising of 220 kV Kalwa - Taloja & 220 kV Kalwa - Apta line Loc. 652-653-654 for Metro Rail Depot and Loc. No 647 to 652 metro rail at Panchananda	S/C	MSETCL	4	DEC-14
163	Tap on 220 kV Bhigwan-Kurkumbh at 220 kV Shirsuphal	S/C	MSETCL	5	DEC-14
164	Tarapur - Boisar line	S/C	MSETCL	1	DEC-14
165	Tarapur - Borivali line	S/C	MSETCL	1	DEC-14
166	Mendhasal-Bidanasi	D/C	OPTCL	62	DEC-14



167	LILO of 2nd Ckt of Patiala - Patran at Rajla	D/C	PSTCL	12	DEC-14
168	Sarna - Sujampur line	D/C	PSTCL	9	DEC-14
169	Chandan - Dechu	D/C	RVPNL	202	DEC-14
170	LILO of Both ckt Viramgam - Bhat at Sanand	D/C	GETCO	22	JAN-15
171	Gurgaon Sector-72- Gurgaon Sector-20	D/C	HVPNL	24	JAN-15
172	LILO of Badod - Kota line & Badod - Modak line at Bhanpura	D/C	MPPTCL	4	JAN-15
173	LILO of Bina - Bhopal line at Ganjbasoda	D/C	MPPTCL	11	JAN-15
174	LILO of Narsinghpur - Itarsi at Pipariya	D/C	MPPTCL	9	JAN-15
175	Kadaperi - Kalivanthapattu line	S/C	TANTRANSCO	38	JAN-15
176	LILO of K.R.Thoppur-Deviakurichi at Singapuram	D/C	TANTRANSCO	14	JAN-15
177	Gonda - Basti	S/C	UPPTCL	105	JAN-15
178	LILO of Botad - Vartej at Vallabhipur	D/C	GETCO	2	FEB-15
179	Gurgaon Sector-72- Gurgaon Sector-20 (2nd Ckt)	D/C	HVPNL	24	FEB-15
180	Ashta - Berchha (2nd Ckt)	D/C	MPPTCL	45	FEB-15
181	Ashta - Indore - II (Jetpura)	S/C on D/C	MPPTCL	199	FEB-15
182	Berchha - Shajapur -I	D/C	MPPTCL	20	FEB-15
183	LILO of Pandharpur - Malinagar at karkambh	D/C	MSETCL	3	FEB-15
184	LILO of Ras - Merta line at Jethana	D/C	RVPNL	39	FEB-15
185	CBE - Mandapam	D/C	TANTRANSCO	10	FEB-15
186	LILO of Kundha PH III - PUSHEP at Karamadai	D/C	TANTRANSCO	1	FEB-15
187	LILO of Dhanki - Veramgam at Dhanki	D/C	GETCO	1	MAR-15
188	LILO of Halvad - Bhimasar at Chardava	D/C	GETCO	2	MAR-15
189	LILO of Kadana - Dhansura at Modasa	2xD/C	GETCO	22	MAR-15
190	LILO of Navsari -Bhilad at Atul S/s	D/C	GETCO	9	MAR-15
191	LILO of one ckt Kosamba-Mobha line at Suva	D/C	GETCO	115	MAR-15
192	Hiriyur - Gowribidanur	D/C	KPTCL	241	MAR-15
193	Berchha - Shajapur -II	D/C	MPPTCL	20	MAR-15
194	Gwalior (PGCIL) - Gwalior-II	D/C	MPPTCL	3	MAR-15
195	Amravati - Badnera line (2 Ckt)	S/C	MSETCL	30	MAR-15
196	LILO of Gangapur - Malegaon (Satana) at Sakri (Shivajinagar)	D/C	MSETCL	55	MAR-15
197	LILO of Monga - Jagron at Himatpura	D/C	PSTCL	56	MAR-15
198	Mukatsar - Ghubaya	D/C	PSTCL	81	MAR-15
199	Nakodar - Kartarpur	D/C	PSTCL	55	MAR-15
200	Barmer - M/s Carins	S/C	RVPNL	23	MAR-15
201	Heerapura -Nala Power House (Upgradation)	D/C	RVPNL	12	MAR-15
202	LILO of one ckt of Bapp - Bhadla at Badisid	D/C	RVPNL	29	MAR-15
203	Sujargarh - Tehendesar (GSS)	S/C	RVPNL	53	MAR-15



204	LILO of Lucknow - Sitapur at BKT	D/C	UPPTCL	3	MAR-15
205	Lalitpur TPS - Lalitpur TPS S/S (Ckt-I)	D/C	UPPTCL	19	MAR-15
<b>Total of State Sector</b>				<b>4448</b>	
<b>Total of 220 kV</b>				<b>4561</b>	
<b>Grand Total</b>				<b>22101</b>	
<b>Transmission Lines Commissioned/ready for commission during 2013-14 (as on 31.3.2014)</b>					
Sl. No.	Name of Transmission Lines	Circuit Type	Executing Agency	Line Length (cKM)	Month of Completion
1	2	3	4	5	6
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Agra - Jhatikara	S/C	PGCIL	252	APR-13
2	Sasan - Satna line -II	S/C	PGCIL	242	APR-13
3	Meerut - Agra	S/C	PGCIL	268	MAY-13
4	Sasaram - Fatehpur line-II	S/C	PGCIL	355	MAY-13
5	Fatehpur- Agra line-II	S/C	PGCIL	334	SEP-13
6	Raigarh Pooling Station (Near Kotra) - Raigarh Pooling Station ( Near Tammar) line	D/C	PGCIL	98	OCT-13
7	Jabalpur Pooling Station - Bina line	D/C	PGCIL	459	DEC-13
8	Raichur - Sholapur	S/C	PGCIL	208	DEC-13
9	Meerut - Bhiwani line	S/C	PGCIL	174	JAN-14
10	Raigarh Pooling Station (Near Kotra) - Raipur Pooling Station line	D/C	PGCIL	480	JAN-14
11	Satna - Gwalior line (Ckt-I)	S/C	PGCIL	337	FEB-14
12	LILO of Ranchi - WR Pooling Station at Dharamjaygarh / near Korba.	D/C	PGCIL	10	MAR-14
13	Lucknow - Bareilly line	S/C	PGCIL	252	MAR-14
14	Ranchi - WR Pooling Station	S/C	PGCIL	381	MAR-14
<b>Total of Central Sector</b>				<b>3850</b>	
<b>PVT SECTOR</b>					
15	Tiroda - Akola-II	S/C	APL	361	FEB-14
<b>Total of Pvt. Sector</b>				<b>361</b>	
<b>STATE SECTOR</b>					
16	Anta - Phagi (Jaipur South Ckt-2)(Charged at 400 kV)	S/C	RVPNL	214	JAN-14



17	Anta - Phagi (Jaipur South Ckt-1)	S/C	RVPNL	212	MAR-14
<b>Total of State Sector</b>				<b>426</b>	
<b>Total of 765 kV</b>				<b>4637</b>	
<b>400 kV</b>					
<b>CENTRAL SECTOR</b>					
18	Raigarh Pooling Station (Near Kotra) - Raigarh line	D/C	PGCIL	13	APR-13
19	Jamshedpur - Baripada (Balance Portion)	D/C	PGCIL	62	MAY-13
20	LILO of Rourkela - Raigarh at Jharsuguda Pooling Stn. Ckt-II	D/C	PGCIL	44	MAY-13
21	Indore - Indore Ckt-II	D/C	PGCIL	50	JUN-13
22	Durgapur STPS - Raghunathpur	D/C	DVC	138	JUL-13
23	LILO of Parbati -II - Koldam at Parbati Pooling Point.	D/C	PGCIL	1	JUL-13
24	LILO of Parbati -II - Parbati Pooling Point at Parbati -III	D/C	PGCIL	4	JUL-13
25	Parbati Pooling Point - Amritsar	D/C	PGCIL	501	JUL-13
26	Baharampur (India)-Bheramerar (Bangladesh) line - India Portion	D/C	PGCIL	143	AUG-13
27	LILO of Farakka - Jeerat line at Baharampur (India)	S/C	PGCIL	5	AUG-13
28	Thermal Powertech - Nellore Pooling Station	D/C	PGCIL	65	AUG-13
29	LILO of Both Ckt of Kishenpur - Wagoora line at Wanpoo	D/C	PGCIL	9	SEP-13
30	Agra - Sikar line	D/C	PGCIL	775	DEC-13
31	Bassi (PG)- Jaipur (RVPN) 765 KV line (Q)	D/C	PGCIL	97	DEC-13
32	Jabalpur Pooling Station - Jabalpur (High Capacity) line	D/C	PGCIL	31	DEC-13
33	LILO of Raichur (existing)- Gooty at Raichur (New)	D/C	PGCIL	21	DEC-13
34	LILO of One Ckt of Parbati Pooling Stn. - Amritsar line at Hamirpur	D/C	PGCIL	7	DEC-13
35	LILO of Bangalore - Salam at Hosur	D/C	PGCIL	25	JAN-14
36	Ranchi (New) -Ranchi line -I	D/C	PGCIL	162	JAN-14
37	Shifting of Ankola -Aurangabad (MSETCL) to Aurangabad (PG)	D/C	PGCIL	102	JAN-14
38	LILO of Nathpa Jhakri - Nalagarh at Rampur (Loop in portion)	D/C	PGCIL	5	FEB-14
39	Bareilly (New) - Bareilly (Exist) line (Quad)	D/C	PGCIL	2	MAR-14
40	Kurnool (new) - Kurnool line	D/C	PGCIL	20	MAR-14
41	LILO of Bhiwadi - Bassi at Kotputli	D/C	PGCIL	17	MAR-14
42	LILO of Kahalgaon - Biharshariff line (Ist line) at Lakhisarai	D/C	PGCIL	56	MAR-14
43	LILO of Kolar - Sriperumbdure at Thiruvalem	D/C	PGCIL	42	MAR-14
44	LILO of Nagarjunsagar - Gooty at Kurnool	D/C	PGCIL	70	MAR-14



45	LILO of One Ckt of Talchar - Meramundali at Angul Pooling Station	D/C	PGCIL	34	MAR-14
46	LILO of Vapi - Navi Mumbai at Kala	D/C	PGCIL	18	MAR-14
47	Ranchi (New) -Ranchi line -II	D/C	PGCIL	158	MAR-14
48	Tiruvelam (PG) - Chittoor	D/C	PGCIL	42	MAR-14
49	Vadodara - Pirana (Quad)	D/C	PGCIL	274	MAR-14
50	Vadodra - Asoj line	D/C	PGCIL	24	MAR-14
51	Vapi - Kala (Part of Vapi-Navimumbai)	D/C	PGCIL	61	MAR-14
<b>Total of Central Sector</b>				<b>3078</b>	
<b>PVT SECTOR</b>					
52	Dhariwal TPS -Channdrapur II (1st Ckt)	S/C	DIPL	10	SEP-13
53	Prunia - Biharsharif Line (ENICL)	D/C	SGL	464	SEP-13
54	Parli (PG) - Pune (PG)	MC+D/C	RPTL	668	NOV-13
55	Pune (PG) - Aurangabad (MSETCL)	MC+D/C	RPTL	476	JAN-14
56	Akola- I - Akola-II	D/C	APL	61	FEB-14
57	Nasik-Bableshtar (1st Ckt)	D/C	IBPL	57	MAR-14
58	LILO of Rourkela - Raigarh at Sterlite TPP ( 2nd LILO)	D/C	SEL	60	MAR-14
<b>Total of Pvt Sector</b>				<b>1796</b>	
<b>STATE SECTOR</b>					
59	LILO of Chandrapur - Parli at Chandrapur II	D/C	MSETCL	3	APR-13
60	Rajpura - Dhuri	D/C	PSTCL	171	MAY-13
61	Rajpura Thermal - Rajpura	D/C	PSTCL	18	MAY-13
62	Marwa - Raipur (Raitha)	D/C	CSPTCL	281	JUN-13
63	Daultabad - Gurgaon (PGCIL) Sector - 72	D/C	HVPNL	42	JUN-13
64	Chandrapur-II - Warora	D/C	MSETCL	91	JUN-13
65	Makhu (PGCIL) - Amritsar line	D/C	PSTCL	128	AUG-13
66	Bhoopalapally (Kakatiya) - Gajwel	D/C	APTRANSCO	262	SEP-13
67	LILO of Karadi I - India Bulls at Koradi II	D/C	MSETCL	7	SEP-13
68	Malwa TPP - Pithampur	D/C	MPPTCL	272	NOV-13
69	Parichha - Mainpuri (1st Ckt.)	D/C	UPPTCL	259	DEC-13
70	Raigarh - Saraipalli	D/C	CSPTCL	222	JAN-14
71	Vadinar - Amreli (Part line)	D/C	GETCO	117	JAN-14
72	Kawai - Anta (Baran)	D/C	RVPNL	101	JAN-14
73	Alamathy -Sunguvarchatram (1st Ckt)	D/C	TANTRANSCO	98	JAN-14
74	Paricha - Mainpuri 2nd Ckt.)	D/C	UPPTCL	259	JAN-14
75	Khedamara - Raipur	D/C	CSPTCL	90	FEB-14
76	Kolaghat TPS - Kharagpur	S/C	WBSETCL	91	FEB-14
77	Pithampur-Indore	D/C	MPPTCL	128	MAR-14
78	Chandrapur switching Stn. - Chandrapur II S/S	S/C	MSETCL	4	MAR-14
79	Kalisndh TPS - Anta (Baran) Pooling Station (Quad)	D/C	RVPNL	159	MAR-14



80	Alamathy -Sunguvarchatram (2nd Ckt)	D/C	TANTRANSCO	100	MAR-14
<b>Total of State Sector</b>				<b>2903</b>	
<b>Total of 400 kV</b>				<b>7777</b>	
<b>220 kV</b>					
<b>CENTRAL SECTOR</b>					
81	LILO of Ckt-I Jullandhur - Hamirpur at Hamirpur (PG)	D/C	PGCIL	15	DEC-13
<b>Total of Central Sector</b>				<b>15</b>	
<b>PVT SECTOR</b>					
82	Subhasgram (PGCIL) - CESC 220 KV S/S	D/C	CESC	48	MAR-14
<b>Total of Pvt. Sector</b>				<b>48</b>	
<b>STATE SECTOR</b>					
83	Jalna -Chikhali line ( Ckt I)	S/C	MSETCL	90	APR-13
84	Ramnathpuram-Thondamanatham-I	S/C on D/C	PED	4	APR-13
85	Ramnathpuram-Thondamanatham-II	S/C on D/C	PED	3	APR-13
86	Thudiyalur-O.K. Mandapam (2nd Ckt Strng.)	S/C	TANTRANSCO	26	APR-13
87	LILO of one Ckt of STPS - N. Bishnupur line at Hura	D/C	WBSETCL	32	APR-13
88	Bemetara - Mungeli	S/C	CSPTCL	40	MAY-13
89	Deepalpur-Barhi	D/C	HVPNL	25	MAY-13
90	Chogawan Mazra - Nabha (2nd Ckt)	S/C	PSTCL	33	MAY-13
91	LILO of Khasa - Civil line at Amritsar	D/C	PSTCL	12	MAY-13
92	LILO of Savarkundla - Vartej at BECL (Padva)	D/C	GETCO	56	JUN-13
93	Nakhatrana-Varsana line	D/C	GETCO	214	JUN-13
94	Otha (Mahuva) - Sagapara (Palitana)	D/C	GETCO	96	JUN-13
95	Ahmadnagar - Bhose (Belwandi)	D/C	MSETCL	94	JUN-13
96	Dhule Chalisgaon Dondaicha - Kundane Dhule (Extn. of line)	S/C	MSETCL	1	JUN-13
97	Dhule Dondaicha - Kundane Dhule (Extn. of line)	S/C	MSETCL	1	JUN-13
98	Kharghar - Kalwa	M/C	MSETCL	89	JUN-13
99	LILO of Deepnagar - Amalner at Bhamburi	D/C	MSETCL	16	JUN-13
100	Mhaisal - Jath line	D/C	MSETCL	134	JUN-13
101	Parli - Parli (interconnection)	S/C	MSETCL	1	JUN-13
102	Phaltan MIDC - Bothe - Lonad Bothe	S/C	MSETCL	32	JUN-13
103	Urse - Talegaon line 2ckt	S/C	MSETCL	9	JUN-13
104	LILO of Gobi- MTPS at Anthiyur	D/C	TANTRANSCO	2	JUN-13



105	Khedamara - Rajnandgaon(2nd Ckt)	S/C	CSPTCL	50	JUL-13
106	LILO of GCR - Gadchandur at M/s Grace Industries	D/C	MSETCL	2	JUL-13
107	LILO of Patiala - Patran at Passiana.	D/C	PSTCL	2	JUL-13
108	LILO of one ckt Patran - Sunam at Bangan	D/C	PSTCL	24	JUL-13
109	Arasur - Palladam	S/C on D/C	TANTRANSCO	55	JUL-13
110	Purnea (PG)-Madhepura Line	D/C	BSEB	200	AUG-13
111	LILO of one ckt Patran - Rajla at Kakrala	D/C	PSTCL	6	AUG-13
112	LILO of one ckt Rajpura - Mohali-I line at Banur	D/C	PSTCL	29	AUG-13
113	LILO of one ckt of GHTP-Mansa line at Talwandi Sabo	D/C	PSTCL	59	AUG-13
114	LILO of Heerapura - Khetri line (Second Ckt.) to LILO of one Ckt. of Neemrana - Kotputli line	D/C	RVPNL	124	AUG-13
115	LILO of Barsinghar (LTPS) - Phalodi at Baap	D/C	RVPNL	51	AUG-13
116	LILO of Chittorgarh - Debari at Chittorgarh	D/C	RVPNL	3	AUG-13
117	LILO of one ckt Sarusajai -Samaguri at Jawaharnagar S/S	D/C	AEGCL	1	SEP-13
118	Raipur- Urla - Siltara line	D/C	CSPTCL	26	SEP-13
119	Baddi - Nalagarh	D/C	HPPTCL	24	SEP-13
120	Kabalpur - Badhan	D/C	HVPNL	46	SEP-13
121	LILO of Narwana - Safidon at Mundh	D/C	HVPNL	8	SEP-13
122	Zainkote-Amargarh	D/C	JKPDD	85	SEP-13
123	Lohardagga-Latehar	D/C	JSEB	112	SEP-13
124	LILO of both ckts of Nimrani-Julwania at Julwania	D/C	MPPTCL	6	SEP-13
125	Sadawaghapur - Karad line - sadawaghapur	S/C	MSETCL	30	SEP-13
126	Talegaon (MSETCL) - Talegaon (PG)	D/C	MSETCL	3	SEP-13
127	Vita - Ghatnande line - Wayphale	S/C	MSETCL	25	SEP-13
128	LILO of one ckt of GGSSTP - Gobindgarh line at Bassi Pathana	D/C	PSTCL	12	SEP-13
129	Heerapur - Mansarovar (GIS)	S/C	RVPNL	2	SEP-13
130	LILO of Kankroli -Bali at Baman ka tukda	D/C	RVPNL	4	SEP-13
131	Sanganer-Mansarovar (Upgradation)	D/C	RVPNL	2	SEP-13
132	Extension of NCTPS - Gummudipoondi feeder to M/s Michellin Tyres.	S/C	TANTRANSCO	18	SEP-13
133	Oglapur 400kV S/S- Durshed	D/C	APTRANSCO	142	OCT-13
134	Bidadi 400kV(PG) -Bidadi 220kV S/S	D/C	KPTCL	7	OCT-13
135	Ghataprabha - Chikkodi	D/C	KPTCL	75	OCT-13
136	400 kV GSS PGCIL, Jaipur South (Chaksu) - Chaksu GSS	D/C	RVPNL	16	OCT-13



137	LILO of Khetri - Reengus at 400 kV GSS Babai	D/C	RVPNL	2	OCT-13
138	Elephantgate - Mylapore (UG cable)	S/C	TANTRANSCO	12	OCT-13
139	LILO of Tharamani - Veerapuram at 400 kV Kalivanthapattu	S/C	TANTRANSCO	16	OCT-13
140	Sambhal - Gajraula	S/C	UPPTCL	43	OCT-13
141	Xeldem-Cuncolim	D/C	ED- GOA	20	NOV-13
142	LLIO of Bahadurgarh- Rohtak at Kabulpur	D/C	HVPNL	47	NOV-13
143	LILLO of Itarsi - Narsinghpur at Chichali	D/C	MPPTCL	4	NOV-13
144	LILLO of Nagdha - Neemuch at Daloda	D/C	MPPTCL	9	NOV-13
145	LILLO of Dausa -Anta at Lalsot	D/C	RVPNL	21	NOV-13
146	LILLO of K.R. Thoppur - Gobi at Pallakkapalayam	D/C	TANTRANSCO	10	NOV-13
147	LILLO of Khara - Saharanpur at Behat	D/C	UPPTCL	5	NOV-13
148	Paricha-Jhansi	D/C	UPPTCL	28	NOV-13
149	Dalkhola(PG)- Dalkhola	D/C	WBSETCL	2	NOV-13
150	Jeerat-Rishra	D/C	WBSETCL	140	NOV-13
151	LILLO of Veltoor -Jurala at Lower Jurala HEP	D/C	APTRANSCO	9	DEC-13
152	Bahadurgarh - Devigarh	D/C	PSTCL	56	DEC-13
153	Hindaun - Gangapurcity	D/C	RVPNL	107	DEC-13
154	Kharagpur - Midnapur	D/C	WBSETCL	92	DEC-13
155	LILLO of Manubolu - Renigunta at Ranchagunneri S/S	D/C	APTRANSCO	2	JAN-14
156	LILLO of Tadikanda - Ongole at Podili (Lot I & II)	D/C	APTRANSCO	143	JAN-14
157	LILLO of 2nd Ckt of GHTP - Mansa at Dhanaula	D/C	PSTCL	78	JAN-14
158	LILLO of GGSSTP - Sahnewal at Ghulal	D/C	PSTCL	11	JAN-14
159	LILLO of one ckt of Jamsher - Sultanpur at Badshahpur	D/C	PSTCL	14	JAN-14
160	Churk - Robertsganj	D/C	UPPTCL	13	JAN-14
161	Latehar- Daltonganj	D/C	JSEB	130	FEB-14
162	Kotputli - Manoharpur	D/C	RVPNL	99	FEB-14
163	LILLO of Gachibowli - Thandur at Yeddumailaram	D/C	APTRANSCO	20	MAR-14
164	Sattenapalli (Narsaraopet) - Narsaraopet	D/C	APTRANSCO	40	MAR-14
165	Yeddumailaram - Sadasivpet	D/C	APTRANSCO	74	MAR-14
166	Extn. of Hajipur - Muzaffarpur (Kanti) to Muzaffarpur (PG)	D/C	BSEB	14	MAR-14
167	LILLO of Korba- Amarkantak I & II at Churri	D/C	CSPTCL	2	MAR-14
168	Ridge Valley - Trauma Centre/ AIIMS	D/C	DTL	12	MAR-14
169	BECL (Padva)- Sagapara line	D/C	GETCO	83	MAR-14
170	LILLO of Chorania-Gondal at Sadla	D/C	GETCO	59	MAR-14
171	LILLO of Halvad - Bhimasar at Halvad	D/C	GETCO	18	MAR-14
172	LILLO of Navsari - Vav line at Popada	D/C	GETCO	18	MAR-14
173	LILLO of Tappar - Shivilakha at PS 3 (Bhachau)	D/C	GETCO	3	MAR-14





174	LILO of both ckts of Hadala - Halvad at Sartanpar	D/C	GETCO	51	MAR-14
175	LILO of one ckt Wanakbori-Asoj line at Jarod	D/C	GETCO	28	MAR-14
176	Diversion of Sarni - Pandhurna	D/C	MPPTCL	4	MAR-14
177	Modification / Shifting of Sukha - Birsinghpur / Amarkantak	D/C	MPPTCL	13	MAR-14
178	Modification/Shifting of Jabalpur - Amarkantak	D/C	MPPTCL	16	MAR-14
179	Ratlam - Daloda line	D/C	MPPTCL	74	MAR-14
180	Diversion of Koradi - Kalwa Ckt-I (Bhusawal - Aurangabad ) at Jalgaon	S/C	MSETCL	2	MAR-14
181	Diversion of Koradi - Kalwa Ckt-I (Bhusawal - BBLR ) at Jalgaon	S/C	MSETCL	2	MAR-14
182	LILO of 2nd Ckt Vita -Pandhrapur line at Hiwarwadi S/S	D/C	MSETCL	6	MAR-14
183	LILO of Khaparkheda - Wardha at New Buttibori-III	D/C	MSETCL	3	MAR-14
184	LILO of Pusad - Nanded at Ghatodi	D/C	MSETCL	33	MAR-14
185	LILO of Waluj Bahaleshwar at Deogaon Rangari S/S	D/C	MSETCL	26	MAR-14
186	Tap on Babhaleshwar - Chalisgaon at Kopergaon	D/C	MSETCL	11	MAR-14
187	Tap on Vita - Comboti at Mahali S/S	D/C	MSETCL	2	MAR-14
188	Dhuri-Bangan	D/C	PSTCL	101	MAR-14
189	BAAP - Bhadla	D/C	RVPNL	104	MAR-14
190	LILO of Ratangarh - Reengus at Laxmangarh	D/C	RVPNL	6	MAR-14
192	LILO of Bharthana - Manipuri at Saifai	D/C	UPPTCL	2	MAR-14
	LILO of Tanda – Sultanpur at Tanda (New)	D/C	UPPTCL	8	MAR-14
193	LILO of Domjur - Howrah at Foundry Park	D/C	WBSETCL	60	MAR-14
194	LILO of Jeerat - KLC at NTAA-III	D/C	WBSETCL	4	MAR-14
<b>Total of State Sector</b>				<b>4271</b>	
<b>Total of 220 kV</b>				<b>4334</b>	
<b>Grand Total</b>				<b>16748</b>	

**Transmission Lines Commissioned/ready for commission during 2012-13  
(as on 31.3.2013)**

Sl. No.	Name of Transmission Lines	Circuit Type	Executing Agency	Line Length (cKM)	Month of Completion
	2	3	4	5	6
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Bhiwani - Moga	S/C	PGCIL	273	MAY-12
2	Fatehpur- Agra Line I	S/C	PGCIL	334	MAY-12



3	Satna - Bina line -II	S/C	PGCIL	276	JUN-12
4	Jhatikara - Bhiwani	S/C	PGCIL	85	SEP-12
5	Sasan - Satna line -I	S/C	PGCIL	241	DEC-12
<b>Total of Central Sector</b>				<b>1209</b>	
<b>Total of 765 kV</b>				<b>1209</b>	
<b>400 kV</b>					
<b>CENTRAL SECTOR</b>					
6	Durgapur-Jamshedpur (Part Line)	D/C	PGCIL	276	APR-12
7	Jamshedpur - Baripada (Part Line)	D/C	PGCIL	220	APR-12
8	Manesar - Neemrana	D/C	PGCIL	134	MAY-12
9	Mauda - Wardha (2nd Ckt)	S/C	PGCIL	124	MAY-12
10	Nabinagar - Sasaram line (Twin lapwing)	D/C	PGCIL	164	MAY-12
11	LILO of Agra - Jaipur line at Jaipur (Part Line)	D/C	PGCIL	75	JUN-12
12	LILO of one ckt Balia - Lucknow at Sohawal	D/C	PGCIL	12	JUN-12
13	Palatana - Surajmaninagar line (Charged at 132 KV)	D/C	PGCIL	74	JUN-12
14	Gandhar - Navsari	D/C	PGCIL	204	JUL-12
15	LILO of both Ckt of Allahabad - Mainpuri at Fatehpur	2xD/C	PGCIL	73	JUL-12
16	Gurgaon -Manesar(Q)	D/C	PGCIL	34	AUG-12
17	LILO of Both Ckt of Agra - Jaipur line at Jaipur (Ckt-II)	D/C	PGCIL	75	AUG-12
18	LILO of Both ckt Bahadurgarh - Hissar at Bhiwani	D/C	PGCIL	33	AUG-12
19	LILO of Meramundli - Jeypore line at Bolangir	S/C	PGCIL	42	AUG-12
20	LILO of both ckt of Udumalpet - Madakathara at Chulliar (Ckt-II)	D/C	PGCIL	49	AUG-12
21	Mundra - Jetpur (Part line)	S/C	PGCIL	314	AUG-12
22	LILO of both ckt of Mundka/Bawana - Bannouli at Jhatikara (Q)	D/C	PGCIL	26	SEP-12
23	LILO of One Ckt of Bareilly - Mandola line at Meerut	D/C	PGCIL	110	SEP-12
24	LILO of Barh - Balia at Patna	D/C	PGCIL	16	NOV-12
25	LILO of Kahalgaon - Biharshariff line (2nd line) at Banka	D/C	PGCIL	56	NOV-12
26	Bongaigaon TPS - Bongaigaon	D/C	PGCIL	6	DEC-12
27	Mundra - Jetpur (Balance portion)	S/C	PGCIL	358	DEC-12
28	Raipur(PG) - Wardha(PG)	D/C	PGCIL	741	DEC-12
29	Sasan - Vindhyachal Pooling station	D/C	PGCIL	12	DEC-12
30	Vindhyachal-IV - Vindhyachal Pooling Station line (Q)	D/C	PGCIL	58	DEC-12
31	Bina - Bina (MPPTCL)	D/C	PGCIL	1	JAN-13
32	LILO of Both Ckt-II Balia - Lucknow line at Sohawal	D/C	PGCIL	12	JAN-13



33	LILO of Rengali - Baripada line at Keonihar	S/C	PGCIL	18	JAN-13
34	Maithon - Koderma line (Contingency combining M-G and K-G and by passing common MC portion &Gaya S/S)	D/C	PGCIL	526	JAN-13
35	Bhiwani - Jind line	D/C	PGCIL	165	MAR-13
36	Chamera-II HEP - Jullundur line	D/C	PGCIL	324	MAR-13
37	Kishanpur - Samba line	D/C	PGCIL	70	MAR-13
38	LILO of 2nd Ckt Bareilly - Mandola line at Meerut	S/C	PGCIL	112	MAR-13
39	LILO of Kaithalguri - Misa line at Mariani (New) (Charged at 220KV)	D/C	PGCIL	1	MAR-13
40	LILO of Both Ckt SEPL/MEPL - Nellore at Nellor Pooling Station	D/C	PGCIL	15	MAR-13
41	LILO of Meramundli -Jeypore at Angul Pooling Station	D/C	PGCIL	9	MAR-13
42	LILO of Rourkela - Raigarh at Jharsuguda Pooling Stn.	D/C	PGCIL	44	MAR-13
43	Nellore - Gooty line	D/C	PGCIL	578	MAR-13
44	Raipur Pooling Station - Raipur line	D/C	PGCIL	43	MAR-13
45	Vallure TPS - Melakottaiyur line	D/C	PGCIL	71	MAR-13
46	Vapi - Navsari line	D/C	PGCIL	236	MAR-13
<b>Total of Central Sector</b>				<b>5511</b>	
<b>PVT SECTOR</b>					
47	LILO of Lonikhand - Kalwa at Pune (2n Ckt)	S/C	RPTL	3	MAY-12
48	Kasaipalli TPP -Bharai (Sipat) Pooling station	D/C	ACB	112	JUL-12
49	Adhunik - Jamshedupur (PG) (Padampur)	D/C	ADHUNIK	1	JUL-12
50	Mohindergarh HVDC - Bhiwani	D/C	APL	100	JUL-12
51	Mohindergarh HVDC- Mohindergarh HVPNI (Dhanonda)	D/C	APL	10	JUL-12
52	Karcham Wangtoo-Abdullapur	D/C	JV(PG&JP)	432	JUL-12
53	Solapur (PG) - Kolhapur (MSETCL)	D/C	RPTL	440	JUL-12
54	LILO of one ckt Korba- Birsinghpur at Vandana	D/C	VVL	6	JUL-12
55	Tiroda TPP - Warora (2nd ckt)	D/C	APL	218	AUG-12
56	Palatana -Silchar	D/C	NETC	495	AUG-12
57	LILO of Koradi -Akola at Amravati	D/C	IBPL	14	OCT-12
58	EMCO - Bhadravathi (PG)	D/C	GMR ENERG	80	JAN-13
59	Silchar - Byrnihat	D/C	NETC	428	FEB-13
60	Tiroda TPP -Warora (1st ckt)	S/C	APL	218	MAR-13
61	Gandhar-Hazira	D/C	EPTCL	208	MAR-13
<b>Total of PVT Sector</b>				<b>2765</b>	
<b>STATE SECTOR</b>					
62	Lonikand -I -Lonikand II	S/C	MSETCL	1	MAY-12



63	Warora - Wardha (1st Ckt)	S/C	MSETCL	78	MAY-12
64	LILO of Kolaghat TPS - Baripada at Kharagpur	D/C	WBSETCL	8	JUN-12
65	Nandikur (UTPS) - Shantigrama (Hassan)	D/C	KPTCL	358	AUG-12
66	Koradi (Old)- New Khaperkheda	S/C on D/C	MSETCL	4	AUG-12
67	Vallur JV Project-NCTPS St.II	D/C	TANTRANSCO	7	AUG-12
68	LILO Korba (West)-Bhilai at Raipur (CSPTCL)	D/C	CSPTCL	47	SEP-12
69	Krishnapatnam TPS - Nellore.	D/C	APTRANSCO	72	NOV-12
70	Yddumaiaram - Gajwel	D/C	APTRANSCO	210	NOV-12
71	LILO of samayapur-Greate Noida at Nawada	D/C	HVPNL	1	NOV-12
72	Korba (W)-Bhilai (khedamara)	D/C	CSPTCL	447	DEC-12
73	Chhabra TPS-Kawai SCTPS	S/C	RVPNL	16	DEC-12
74	Daultabad -Dhanonda	D/C	HVPNL	146	JAN-13
75	Warora-Wardha(2nd Ckt)	S/C	MSETCL	76	JAN-13
76	Talwandi Sabo - Dhuri	D/C	PSTCL	175	JAN-13
77	Jodhpur - Merta (2nd Ckt) line	D/C	RVPNL	98	JAN-13
78	MTPS St.III - Arasur	D/C	TANTRANSCO	220	JAN-13
79	NCTPS St.II- Alamathy 400 kV S/S	M/C	TANTRANSCO	136	JAN-13
80	Malkaram-Narsapur	D/C	APTRANSCO	147	FEB-13
81	Narsapur-Suryapet	D/C	APTRANSCO	149	FEB-13
82	Vijayawada TPS-Suryapeta	D/C	APTRANSCO	226	FEB-13
83	Malwa TPP - Chhegaon	D/C	MPPTCL	105	FEB-13
84	UKai-Kosamba	D/C	GETCO	145	MAR-13
85	LILO of Palatana - Bongaigaon at Killing (Byrnihat)	D/C	MeECL	9	MAR-13
86	Talwandi Sabo - Moga	D/C	PSTCL	204	MAR-13
<b>Total of State Sector</b>				<b>3085</b>	
<b>Total of 400 kV</b>				<b>11361</b>	
<b>220 kV</b>					
<b>CENTRAL SECTOR</b>					
87	LILO of Sikar (RVPN)-RAtnagarh at Sikar (2nd LILO)	D/C	PGCIL	6	APR-12
88	LILO of both ckts of Kawas-Navsari at Navsari.	D/C	PGCIL	82	JUL-12
89	Kalpakkam PFBR-Kancheppurram	D/C	PGCIL	160	AUG-12
90	Dhanbad-Giridih	D/C	DVC	86	MAR-13
<b>Total of Central Sector</b>				<b>334</b>	
<b>STATE SECTOR</b>					
91	Madhavanahally S/S - Chamarajanagar S/S	D/C	KPTCL	83	APR-12



92	Mannukkad (Chulliar) - Kanjikode (Palakkad) 2nd D/C	M/C	KSEB	12	APR-12
93	LILO of Padghe-Boisar (PG) at Vasai S/S	D/C	MSETCL	5	APR-12
94	LILO one ckt of Lalton Kalan-Sahnewal at Ludhiana (PG)	D/C	PSTCL	7	APR-12
95	Kalisindh-Jhalawar line	D/C	RVPNL	19	APR-12
96	LILO of Halvad-Morbi I at Bhachau	D/C	GETCO	217	MAY-12
97	LILO of Halvad-Morbi II at Bhachau	D/C	GETCO	216	MAY-12
98	East Div Compound - Nimhans Station	UG Cable	KPTCL	5	MAY-12
99	Pakhawal - Mehal Kalan	S/C	PSTCL	58	MAY-12
100	Sarnath-Gajokhar	S/C on D/C	UPPTCL	30	MAY-12
101	LILO of Ramagundam - Dichpally at Medaram	D/C	APTRANSCO	10	JUN-12
102	LILO of Ramagundam - Nirmal at Vemnur	D/C	APTRANSCO	2	JUN-12
103	Tharad-Thavar line	D/C	GETCO	98	JUN-12
104	Gurgaon Sector - 72 - Gurgaon Sector - 56	D/C	HVPNL	21	JUN-12
105	Gurgaon Sector-72- Gurgaon Sector-52 A	D/C	HVPNL	23	JUN-12
106	Khaperkheda (New) - Khaperkheda	M/C	MSETCL	12	JUN-12
107	LILO of Kalwa - Ghatghar at Bapgaon	D/C	MSETCL	4	JUN-12
108	LILO of Osmanabad - Barshi at Paranda	D/C	MSETCL	74	JUN-12
109	Loc 13 of Butibori I -Butibori II - Butibori TPS	S/C	MSETCL	1	JUN-12
110	Old Butibori I-Buttibori -III	D/C on M/C	MSETCL	2	JUN-12
111	Kapurthala - 400 kV Jalandhar line	S/C on D/C	PSTCL	24	JUN-12
112	Khushkhera-Neemrana line	S/C	RVPNL	53	JUN-12
113	LILO of RTPP - ATP at Thimmapuram	D/C	APTRANSCO	5	JUL-12
114	Kochin East (Pallikara) - Marakkala line	M/C	KSEB	9	JUL-12
115	LILO of Sultanpur - Patti at Chola Sahib.	D/C	PSTCL	10	JUL-12
116	Bhilwara - M/s. Jindal Saw	S/C	RVPNL	2	JUL-12
117	LILO of Sanganer -Heerapura line at Mansarovar	D/C	RVPNL	5	JUL-12
118	LILO of one ckt Khushkhera -Neemrana line at Neemrana (Pg)	D/C	RVPNL	5	JUL-12
119	LILO of one ckt of KTPS - Gulabpura at Bundi	D/C	RVPNL	8	JUL-12
120	LILO of Allahabad (Ald)(PG) - Phoolpur at Jhusi	D/C	UPPTCL	13	JUL-12
121	LILO of Savarkundla - Mahva (otha) at Pipavav (GPPC) (line-2)	D/C	GETCO	81	AUG-12
122	LILO of both ckt Mayyar (PGCIL) - Isherwal at Sagwan	D/C	HVPNL	68	AUG-12
123	Beed-Patoda	D/C	MSETCL	86	AUG-12



124	LILO of Vita -Pandhrapur line at Hiwarwadi S/S	D/C	MSETCL	12	AUG-12
125	Bottianwala-Masterwala line	S/C on D/C	PSTCL	24	AUG-12
126	Dhuri - Nabha	S/C	PSTCL	20	AUG-12
127	Goindwal Sahib - Sultanpur Lodhi	D/C	PSTCL	38	AUG-12
128	Suratgarh - Padampur	S/C	RVPNL	57	AUG-12
129	Kavanur - Karaikudi	S/C on D/C	TANTRANSCO	82	AUG-12
130	LILO of NCTPS - Mosur at Athipattu	D/C	TANTRANSCO	4	AUG-12
131	LILO of TTPS - Tuticorin at Tuticorin JV	D/C	TANTRANSCO	1	AUG-12
132	Charla - Section of (Muzaffarnagar - Modipuram II)	S/C	UPPTCL	12	AUG-12
133	Kondapuram- Thimmapuram	D/C	APTRANSCO	19	SEP-12
134	LILO of Agia - Sarusajai line at Kukurmara S/S	D/C	AEGCL	4	SEP-12
135	LILO of Fatwa- Khagaul at Sipara (2nd Ckt)	D/C	BSEB	19	SEP-12
136	LILO of DCRTTP - Abdullapur at Rampur Kamboan	D/C	HVPNL	38	SEP-12
137	LILO of Tepla - Madanpur at Raiwali	D/C	HVPNL	8	SEP-12
138	Kanhan - Umred (2nd Ckt)	S/C	MSETCL	50	SEP-12
139	Dechu - Phalodi	D/C	RVPNL	71	SEP-12
140	LILO of Hindaun - Dausa at Sikrai (GSS)	S/C	RVPNL	19	SEP-12
141	Udyogvihar - Hanumangarh	S/C	RVPNL	48	SEP-12
142	LILO of Renigunta - Chittoor at Nagari	D/C	APTRANSCO	75	OCT-12
143	LILO of Pithampur-Indore & Pithampur-Badnagar line at Pithampur 400 KV S/S	D/C	MPPTCL	65	OCT-12
144	Jalna-Chikhali (2nd Ckt)	S/C	MSETCL	75	OCT-12
145	Parli TPS-Nanded (waghala)	M/C	MSETCL	181	OCT-12
146	LILO of Wadala Granthian - Verpal at Udhoke	D/C	PSTCL	6	OCT-12
147	Sahnewal - Doraha	D/C	PSTCL	16	OCT-12
148	LILO of 2nd ckt of Mechal - Minpur at Gajwel	D/C	APTRANSCO	81	NOV-12
149	Hadala - Halvad line	D/C	GETCO	170	NOV-12
150	Tharad-Deodar line	D/C	GETCO	77	NOV-12
151	Nawada - A5	S/C	HVPNL	6	NOV-12
152	Rangala Raipur-Palwal line	D/C	HVPNL	102	NOV-12
153	LILO of Hoody - Somanahalli at HSR layout	D/C	KPTCL	4	NOV-12
154	LILO of Amarkantak - Korba at Anoopur	D/C	MPPTCL	16	NOV-12
155	LILO of Karad Pedambe at Dasgaon	D/C	MSETCL	8	NOV-12
156	LILO of Satara MIDC - Vankuswade at Ajinkyatara SSk ltd.	D/C	MSETCL	8	NOV-12



157	Mhindra - Brldestone	D/C	MSETCL	12	NOV-12
158	LILo of Mandawar - Bharatpur at Nadbai (GSS)	D/C	RVPNL	11	NOV-12
159	Muzaffarnagar - Modipuram (II Ckt)	S/C	UPPTCL	36	NOV-12
160	Jodhpur - Karwad / Bhawad	D/C	RVPNL	78	DEC-12
161	Marwa - Banari (Start up power)	D/C	CSPTCL	28	JAN-13
162	Naggal (PGCIL) - Raiwali	D/C	HVPNL	25	JAN-13
163	Satpura - Pandhurma line (2 Ckt)	S/C	MPPTCL	83	JAN-13
164	Sidhi - Mahan (M/s. Hindalco.) line	S/C	MPPTCL	79	JAN-13
165	New Bhusaval S/S - existing 400 kV Khadka	D/C on M/C	MSETCL	18	JAN-13
166	South Solarpur (PG) - South Solarpur (2nd ckt)	S/C	MSETCL	5	JAN-13
167	Talegaon - M/s. General Motors line	S/C	MSETCL	1	JAN-13
168	Urse - Talegaon line	S/C	MSETCL	9	JAN-13
169	LILo of Gobingarh - Malerkotla line at Ikolaha	D/C	PSTCL	13	JAN-13
170	LILo of both ckts Sunam - Dhuri at Dhuri	D/C	PSTCL	52	JAN-13
171	Bikaner - Gajner	D/C	RVPNL	117	JAN-13
172	Teesta LD III-New Jalpaiguri	S/C	WBSETCL	81	JAN-13
173	LILo of Gachibowli - Yeddumialaram at Yeddumialaram	D/C	APTRANSCO	12	FEB-13
174	Jurala Hydel Plant - Raichur	D/C	KPTCL	98	FEB-13
175	LILo of Khaperkheda - Kanhan II at M/s Suryalaxmi cotton Mills	D/C	MSETCL	6	FEB-13
176	Mandawar -Alwar MIA line	S/C	RVPNL	57	FEB-13
177	Kosamba-Mobha line	D/C	GETCO	178	MAR-13
178	Tharad-Kintech	D/C	GETCO	175	MAR-13
179	LILo Kishenpur-Pampore at Ramban	D/C	JKPDD	4	MAR-13
180	Miran Sahib - Bishnah	D/C	JKPDD	19	MAR-13
181	LILo of Guttur - Ittagi at Neelagunda S/s.	D/C	KPTCL	7	MAR-13
182	Marakkala - Brahmapuram line	M/C	KSEB	17	MAR-13
183	Raigarh - Common Point near Pithampur (Diversion)	D/C	MPPTCL	3	MAR-13
184	Kolhapur-Sawantwadi (2nd Ckt)	S/C	MSETCL	122	MAR-13
185	LILo of Chichwad - Theur at Khadakwasla (Nanded city)	D/C	MSETCL	5	MAR-13
186	Lonand - Bothe (Ckt-II)	S/C	MSETCL	41	MAR-13
187	Paras - Balapur	D/C on M/C	MSETCL	24	MAR-13
188	LILo of GGSSTP - Kohara at Gaunagarh.	D/C	PSTCL	33	MAR-13
189	LILo of Khassa - Civil lines ASR at Chogawan	D/C	PSTCL	20	MAR-13



190	Barheni-Patnagar (2nd Ckt)	S/C	PTCUL	35	MAR-13
191	LILO of Bhilwara - Chittorgarh at Hamirgarh	D/C	RVPNL	15	MAR-13
<b>Total of State Sector</b>				<b>4203</b>	
<b>Total of 220 kV</b>				<b>4537</b>	
<b>Grand Total</b>				<b>17107</b>	





## Annexure-2.1b

Substation commissioned/ready for commission during 2016-17 (as on 31.03.2017)					
Sl. No.	Name of Sub-Station	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1	2	3	4	5	6
<b>±800 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Biswanath Chariyali & Agra HVDC terminal (Pole-II)	800	PGCIL	1500	AUG-16
2	Alipurduar & Agra (Extn.) HVDC s/s (Pole-3)	800	PGCIL	1500	MAR-17
3	Champa & Kurukshetra HVDC s/s (Pole-1)	800	PGCIL	1500	MAR-17
<b>Total of Central Sector</b>				<b>4500</b>	
<b>Total of 800 kV</b>				<b>4500</b>	
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
4	Pune (GIS) S/S	765/400	PGCIL	3000	JUN-16
5	Kanpur (GIS) S/S	765/400	PGCIL	3000	JUL-16
6	Champa Pooling Station (ICT-III & IV)	765/400	PGCIL	3000	SEP-16
7	Champa Pooling Station (ICT-V & VI)	765/400	PGCIL	3000	DEC-16
8	Vemagiri Pooling Station (ICT-1)	765/400	PGCIL	1500	JAN-17
9	Extn. Raigarh S/S	765/400	PGCIL	1500	MAR-17
10	Nizamabad Sub station (ICT-I)	765/400	PGCIL	1500	MAR-17
11	Raipur (Extn.)	765/400	PGCIL	1500	MAR-17
12	Vemagiri PS (ICT-II)	765/400	PGCIL	1500	MAR-17
<b>Total of Central Sector</b>				<b>19500</b>	
<b>PVT SECTOR</b>					
13	Greater Noida AIS (ICT-2)	765/400	WUPPTCL	1500	APR-16
14	Mainpuri S/S (ICT-1)	765/400	SEUPPTCL	1000	JAN-17
<b>Total of PVT Sector</b>				<b>2500</b>	
<b>STATE SECTOR</b>					
15	Aurangabad III (Ektuni) S/S (ICT-I)	765/400	MSETCL	1500	MAY-16
16	Agra (UP) S/S (ICT-I) (Fatehabad)	765/400	UPPTCL	1500	SEP-16
17	Agra (UP) S/S (ICT-II) (Fatehabad)	765/400	UPPTCL	1500	FEB-17
<b>Total of State Sector</b>				<b>4500</b>	
<b>Total of 765 kV</b>				<b>26500</b>	



400 kV					
CENTRAL SECTOR					
18	Mandola S/s (Aug.) ICT-II (Replacing 315 MVA with 500 MVA ICT)	400/220	PGCIL	185	APR-16
19	N.P. Kunta Pooling Station S/S (ICT-I)	400/220	PGCIL	500	APR-16
20	Mandola S/s (Aug.) ICT-III (Replacement of 315 MVA by 500 MVA)	400/220	PGCIL	185	MAY-16
21	Balipara (2nd ICT)	400/220	PGCIL	315	MAY-16
22	Saharanpur S/S	400/220	PGCIL	630	MAY-16
23	Bagpat (ICT-II) S/S	400/220	PGCIL	500	JUN-16
24	Jalandhar (Extn.)	400/220	PGCIL	500	JUN-16
25	Pandiabil S/S (ICT-I & II)	400/220	PGCIL	1000	JUN-16
26	Jharkhand Pool (Chandwa) Switching GIS	400	PGCIL	0	JUL-16
27	N.P. Kunta Pooling Station S/S (ICT-II & III)	400/220	PGCIL	1000	JUL-16
28	Somanahalli S/S	400/220	PGCIL	500	AUG-16
29	Ballabgarh S/S (Replacement of ICT-I & ICT-II) ((500-315)	400/220	PGCIL	370	SEP-16
30	Baripada (Addl.)	400/220	PGCIL	500	SEP-16
31	Extn. at Mysore S/S	400/220	PGCIL	500	SEP-16
32	Kishanganj S/S (ICT-II)	400/220/33	PGCIL	500	SEP-16
33	Maithon S/S (Replacement of ICT-I) (500-315)	400/220	PGCIL	185	SEP-16
34	Patna (Replacement of ICT-I) (500-315)	400/220	PGCIL	185	SEP-16
35	Purnea S/S (Replacement of ICT-II) (500-315)	400/220	PGCIL	185	SEP-16
36	Mandola s/s (Aug.) ICT-IV (Replacing 315 MVA with 500 MVA ICT)	400/220	PGCIL	185	OCT-16
37	Samba (Extn.) S/S	400/220	PGCIL	315	OCT-16
38	Extn. at 400/220 KV Damoh s/s	400/220	PGCIL	500	NOV-16
39	Extn. at Madurai s/s	400/220	PGCIL	500	DEC-16
40	Dehar s/s (Replacement)	400/220	PGCIL	65	JAN-17
41	Dehradun	400/220	PGCIL	630	JAN-17
42	Extn. at Hyderabad S/s	400/220	PGCIL	500	FEB-17
43	Aug. Vijayawada s/s	400/220	PGCIL	500	MAR-17
44	Aug. at Pugalur s/s	400/220	PGCIL	500	MAR-17
<b>Total of Central Sector</b>				<b>11435</b>	



<b>PVT SECTOR</b>					
45	Sikandrabad AIS (ICT-2)	400/220	WUPPTCL	500	APR-16
46	Patran S/S (ICT I & II) (PTL - TBCB)	400/220	PATRANTCL	1000	JUN-16
47	Sikandrabad AIS (ICT-1)	400/220	WUPPTCL	500	JUN-16
48	Alwar S/S	400/220	APL	630	FEB-17
49	Deedwana S/S	400/220/132	APL	630	FEB-17
<b>Total of PVT Sector</b>				<b>3260</b>	
<b>STATE SECTOR</b>					
50	Nanded (Kumbhargaoon)S/S (ICT-II)	400/220	MSETCL	500	JUN-16
51	Rajpura (New) (2x500) (ICT-I)	400/220	PSTCL	500	JUN-16
52	Uravakonda S/S	400/220	APTRANSCO	630	JUL-16
53	Srinagar S/S	400/220	PTCUL	630	JUL-16
54	Kasor (Aug.)	400/220/33	GETCO	315	AUG-16
55	Karamadai S/S	400/230	TANTRANSCO	945	AUG-16
56	Sattenapally	400/220	APTRANSCO	630	SEP-16
57	Koradi-II (ICT-II)	400/220	MSETCL	500	SEP-16
58	Kamudhi S/S	400/230-110	TANTRANSCO	1030	SEP-16
59	Babhaleshwar (Additional ICT-4)	400/220	MSETCL	500	NOV-16
60	Aligarh (Aug.)	400/220	UPPTCL	500	NOV-16
61	Orai S/S (new) (ICT-I)	400/220	UPPTCL	315	NOV-16
62	Jammalamadugu s/s (ICT-I)	400/220	APTRANSCO	315	DEC-16
63	Chittorgarh (ICT-II) S/S	400/220	RVPNL	315	DEC-16
64	Kamudhi (Addl.)	400/110	TANTRANSCO	200	DEC-16
65	Alkud S/S	400/220	MSETCL	500	JAN-17
66	Kanarapatty S/S	400/230-110	TANTRANSCO	1600	JAN-17
67	Kamavarapukota s/s (ICT-1)	400/220	APTRANSCO	315	FEB-17
68	Kosamba (ICT addition)	400/220	GETCO	500	FEB-17
69	Gr. Noida (Aug.) (500-315)	400/220	UPPTCL	185	FEB-17
70	Ghani s/s (PTR-I)	400/220	APTRANSCO	500	MAR-17



71	Kamavarapukota s/s (ICT-2)	400/220	APTRANSCO	315	MAR-17
72	Amreli s/s(Aug.)	400/220	GETCO	500	MAR-17
73	Veloda s/s	400/220	GETCO	1000	MAR-17
74	Akola (Addl.)	400/220	MSETCL	315	MAR-17
75	Thaptitanda S/s (Aurangabad - II) (ICT-II)	400/220	MSETCL	500	MAR-17
76	Rajpura (New) (2x500) (ICT-II)	400/220	PSTCL	500	MAR-17
77	Dharmapuri (Palavadi)	400/230	TANTRANSCO	515	MAR-17
78	400/220/132kV SS at Narsapur(ICT-I)	400/220	TSTRANSCO	315	MAR-17
79	Augmentation at 400/220kV Dichpally (3rd PTR)	400/220	TSTRANSCO	315	MAR-17
80	Gokarna S/S	400/220	WBSETCL	630	MAR-17
81	Kharagpur s/s	400/220	WBSETCL	315	MAR-17
<b>Total of State Sector</b>				<b>16645</b>	
<b>Total of 400 kV</b>				<b>31340</b>	
<b>220 kV</b>					
<b>PVT SECTOR</b>					
82	400 KV Gonda S/s	220/132	SEUPPTCL	200	FEB-17
<b>Total of PVT Sector</b>				<b>200</b>	
<b>STATE SECTOR</b>					
83	N.P. Kunta Poling Station	220/33	APTRANSCO	160	APR-16
84	DSIIDC Bawana (Addl.)	220/66	DTL	160	APR-16
85	Kanjhawala (Addl.)	220/66	DTL	160	APR-16
86	Pappankalan-II (Addl.)	220/66	DTL	160	APR-16
87	Replacement of 100 MVA by 160 MVA at Pappankalan-I	220/66	DTL	60	APR-16
88	Sarita Vihar (Addl.)	220/66	DTL	100	APR-16
89	Pithampur-II S/S (Upgradation of 132 kV S/S)	220/132	MPPTCL	160	APR-16
90	Shajapur (Addl. 2nd Unit)	220/132	MPPTCL	160	APR-16
91	Sarna (Addl.)	220/132	PSTCL	100	APR-16
92	Bansur (Distt. Alwar) S/S	220/132	RVPNL	160	APR-16
93	KIDS Park (3r Auto Trf.)	220/110	TANTRANSCO	100	APR-16



94	Parigi (ICT-I) S/S	220/132	TSTRANSCO	100	APR-16
95	Kaul S/S	220/132	HVPNL	100	MAY-16
96	Sonta S/S (ICT-I)	220/66	HVPNL	100	MAY-16
97	Gurubarapally S/S (2nd Auto Tr.)	220/110	TANTRANSCO	100	MAY-16
98	Singapuram S/S (ICT-I)	220/110	TANTRANSCO	100	MAY-16
99	Azamgarh (Aug.) (160-100)	220/132	UPPTCL	60	MAY-16
100	Baghpat S/S	220/132	UPPTCL	100	MAY-16
101	Bhelupur	220/132	UPPTCL	60	MAY-16
102	Moradabad (Aug.) (160-100)	220/132	UPPTCL	60	MAY-16
103	Nighasan S/S	220/132	UPPTCL	200	MAY-16
104	Egra S/S	220/132	WBSETCL	160	MAY-16
105	Mugaliachhap (New S/s) Bhopal	220/132	MPPTCL	160	JUN-16
106	Badal (New) S/S	220/66	PSTCL	100	JUN-16
107	Jadla S/S	220/66	PSTCL	160	JUN-16
108	Majra S/S	220/66	PSTCL	160	JUN-16
109	Kanasar S/S	220/132	RVPNL	160	JUN-16
110	Bahraich S/S	220/132	UPPTCL	200	JUN-16
111	Mahoba S/S	220/132	UPPTCL	100	JUN-16
112	Sikandra Rau S/S	220/132	UPPTCL	160	JUN-16
113	Vajrakarur	220/132	APTRANSCO	100	JUL-16
114	Hukmawali S/S	220/132	HVPNL	200	JUL-16
115	Egra (ICT-II) S/S	220/132	WBSETCL	160	JUL-16
116	Vidyasagar Park (ICT-I & II)	220/132	WBSETCL	320	JUL-16
117	Agthala (Aug.)	220/66	GETCO	100	AUG-16
118	Chhatral (Aug.)	220/66	GETCO	100	AUG-16
119	Kansari (Aug.)	220/66	GETCO	60	AUG-16
120	Kim (Aug.)	220/66	GETCO	100	AUG-16
121	Mehsana (Aug.)	220/132	GETCO	50	AUG-16
122	Mota (Aug.)	220/66	GETCO	110	AUG-16



123	Rajkot (Nyara) (Aug.)	220/66	GETCO	60	AUG-16
124	Salejada (Aug.)	220/66	GETCO	100	AUG-16
125	Atri (Karadagadia ) 2nd ICT S/S	220/132/33	OPTCL	160	AUG-16
126	Puri (Samangara) ICT-II S/S	220/132	OPTCL	160	AUG-16
127	Abohar (Addl.)	220/66	PSTCL	100	AUG-16
128	Echur (Purisai) (JICA) S/S	230/110	TANTRANSCO	200	AUG-16
129	Mosur S/S (4th Addl. Auto tr)	220/110	TANTRANSCO	100	AUG-16
130	Barahua S/S	220/132	UPPTCL	100	AUG-16
131	Dhanaula (Addl.)	220/66	PSTCL	100	SEP-16
132	Nurmehal (Addl.)	220/66	PSTCL	100	SEP-16
133	Science city (Jalandhar)	220/132	PSTCL	100	SEP-16
134	Bah (New) S/S ICT-I	220/132	UPPTCL	100	SEP-16
135	Hardoi (Aug.)	220/132	UPPTCL	100	SEP-16
136	Sikandra Rau (New) (ICT-II)	220/132	UPPTCL	160	SEP-16
137	Sirsaganj (new) S/S	220/132	UPPTCL	280	SEP-16
138	Kishanganj S/S	220/132/33	BSEB	320	OCT-16
139	Samastipur S/S (ICT-I)	220/132/33	BSEB	160	OCT-16
140	Bastara s/s (Addl.)	220/132	HVPNL	100	OCT-16
141	Chhatarpur (Addl. X-mer)	220/132	MPPTCL	160	OCT-16
142	Rajpura (Addl.)	220/66	PSTCL	100	OCT-16
143	Mahoba s/s (ICT-II)	220/132	UPPTCL	100	OCT-16
144	Morti (New) S/S	220/132	UPPTCL	160	OCT-16
145	Rewari (Aug.)	220/132	HVPNL	100	NOV-16
146	Kanakapura (Aug.)	220/66	KPTCL	100	NOV-16
147	Handia	220/132	MPPTCL	160	NOV-16
148	Kotar (Aug.)	220/132	MPPTCL	160	NOV-16
149	Mandideep S/S	220/132	MPPTCL	160	NOV-16
150	Amalner (Replacement) (200-100)	220/132	MSETCL	100	NOV-16
151	Dondaicha (Additional)	220/33	MSETCL	50	NOV-16



152	Halkarni-1 (Replacement)(50-25)	220/33	MSETCL	25	NOV-16
153	Karkambh (Additional)	220/33	MSETCL	50	NOV-16
154	Mumewadi (Replacement) (50-25)	220/33	MSETCL	25	NOV-16
155	Cuddalore s/s (3rd Auto Tr.)	220/110	TANTRANSCO	100	NOV-16
156	Hayathnagar	220/33	TSTRANSCO	100	NOV-16
157	Gwalior-II(ICT-2))	220/132	MPPTCL	160	DEC-16
158	Julwaniya (Distt.Badwani) (ICT-2)	220/132	MPPTCL	160	DEC-16
159	Nagra Switching S/s	220/132	MPPTCL	0	DEC-16
160	Badshahpur s/s (Addl.)	220/66	PSTCL	100	DEC-16
161	Goner (Jaipur) S/s	220/132/33	RVPNL	100	DEC-16
162	Mandelgarh (Distt. Bhilwara) S/S	220/132	RVPNL	100	DEC-16
163	Nagole (Uppal) S/S	220/132/33	TSTRANSCO	200	DEC-16
164	Charla (ICT-II)	220/132	UPPTCL	160	DEC-16
165	Debai (ICT-II) S/S	220/132	UPPTCL	100	DEC-16
166	Sahibabad (Aug.)	220/132	UPPTCL	40	DEC-16
167	Simbhaoli (Aug.)	220/132	UPPTCL	40	DEC-16
168	chinhat (Aug.)	220/132	UPPTCL	40	DEC-16
169	Chhegaon s/s (Addl.)	220/132	MPPTCL	160	JAN-17
170	Sidhi S/S	220/132	MPPTCL	160	JAN-17
171	Ballarshah S/S	220/33	MSETCL	25	JAN-17
172	Beed s/s (Addl.)	220/33	MSETCL	50	JAN-17
173	Manjarsumbha S/s (Addl.)	220/33	MSETCL	25	JAN-17
174	Partur S/S	220/132-33	MSETCL	150	JAN-17
175	Phulambri S/S (Addl.)	220/33	MSETCL	50	JAN-17
176	Tilawani s/s (Replacement) (100-50)	220/33	MSETCL	50	JAN-17
177	Vile Bhagad S/S	220/22	MSETCL	25	JAN-17
178	Ajitwal s/s (Addl.)	220/66	PSTCL	100	JAN-17
179	Mastewal (Addl.)	220/66	PSTCL	100	JAN-17
180	Aliyar (2nd Auto Tr.)	230/110	TANTRANSCO	100	JAN-17



181	Kinnimangalam (JICA) S/S	230/110	TANTRANSCO	300	JAN-17
182	Nallamanaickenpartty s/s (2nd Auto Tr.)	230/110	TANTRANSCO	80	JAN-17
183	Palladam s/s (4th Auto tr.)	230/110	TANTRANSCO	100	JAN-17
184	Thiruvalem (4th Auto Tr.)	230/110	TANTRANSCO	100	JAN-17
185	Bah (New) S/S ICT-II	220/132	UPPTCL	100	JAN-17
186	Kursi Road, Lucknow (Aug.) (200-100)	220/132	UPPTCL	100	JAN-17
187	Moradabad s/s (Aug.) (200-100)	220/132	UPPTCL	40	JAN-17
188	Sahupuri, Chandauli (Aug.) (200-160)	220/132	UPPTCL	40	JAN-17
189	Preet Vihar GIS (ICT-I)	220/33	DTL	100	FEB-17
190	Botad (Aug.)	220/132	GETCO	150	FEB-17
191	Gondal (Aug.)	220/132	GETCO	50	FEB-17
192	Haldarwa (Aug.)	220/66	GETCO	100	FEB-17
193	Khanpur (Aug.)	220/66	GETCO	100	FEB-17
194	Kheralu (Aug.)	220/66	GETCO	60	FEB-17
195	Panandhro (KLTPS) (Aug.)	220/66	GETCO	50	FEB-17
196	Ranasan (Aug.)	220/132	GETCO	50	FEB-17
197	Wagra (Aug.)	220/66	GETCO	50	FEB-17
198	Magadi S/S	220/66	KPTCL	200	FEB-17
199	Himmatpura S/s (Trf. Replacement) (160-100)	220/132	PSTCL	60	FEB-17
200	Amberi S/S	220/132	RVPNL	160	FEB-17
201	Sawaimadhopur S/s (Aug.) (160-100)	220/132	RVPNL	60	FEB-17
202	Tiruchuli (Near Muthuramalingapuram)	230/110	TANTRANSCO	100	FEB-17
203	Chilakalaguda GIS (Osmania University) (ICT-II)	220/132	TSTRANSCO	160	FEB-17
204	Imlibun (GIS)	220/132	TSTRANSCO	320	FEB-17
205	Singotam X Roads S/s	220/33	TSTRANSCO	40	FEB-17
206	Sircilla S/s (Karimnagar Distt.)	220/132	TSTRANSCO	300	FEB-17
207	Badaun (Aug.) ICT-II (200-150)	220/132	UPPTCL	50	FEB-17
208	Dohna, Bareilly (Aug.) ICT -I (160 -100)	220/132	UPPTCL	60	FEB-17





209	Shamli (Aug.) ICT -II (200-160)	220/132	UPPTCL	40	FEB-17
210	Sultanpur (Aug.) ICT-I (200-160)	220/132	UPPTCL	40	FEB-17
211	Preet Vihar GIS (ICT-II)	220/33	DTL	100	MAR-17
212	Bhatia (Aug.)	220/132	GETCO	100	MAR-17
213	Gotri s/s (Aug.)	220/66	GETCO	160	MAR-17
214	Jamnagar ICT- II	220/132	GETCO	50	MAR-17
215	Sartanpar (Aug.)	220/132	GETCO	100	MAR-17
216	Bhoktoo S/S	220/66	HPPTCL	31	MAR-17
217	Phojal GIS	220/33	HPPTCL	100	MAR-17
218	Gowribidanur (Aug.)	220/66	KPTCL	100	MAR-17
219	Vikas Tech Park	220/66	KPTCL	300	MAR-17
220	Daloda 220 KV S/s (Addl.) (1x160 MVA)	220/132	MPPTCL	160	MAR-17
221	Sarni (Aug.) (160-100)	220/132	MPPTCL	60	MAR-17
222	Amalner (200-100) 2nd ICT	220/132	MSETCL	100	MAR-17
223	Anjangaon S/S	220/132	MSETCL	100	MAR-17
224	Ballarshah s/s (2nd ICT)	220/33	MSETCL	25	MAR-17
225	Bhugaon (Aug.) 2 x (50- 25)	220/33	MSETCL	50	MAR-17
226	Chakan s/s (ICT - II)	220/132	MSETCL	100	MAR-17
227	Kandalgaon (Aug.) (100 - 50)	220/132	MSETCL	50	MAR-17
228	Loni Deokar S/S (2x100 MVA ICT- I&II)	220/132	MSETCL	200	MAR-17
229	Lote s/s (Aug.) (50-25)	220/33	MSETCL	25	MAR-17
230	Partur S/S (2x100+2x50)	220/132	MSETCL	150	MAR-17
231	Ranjangaon (Addl.)	220/22	MSETCL	50	MAR-17
232	Vairag s/s (2x25)	220/33	MSETCL	50	MAR-17
233	Viraj Profile S/S	220/33	MSETCL	100	MAR-17
234	Wathar (Addl.)	220/33	MSETCL	50	MAR-17
235	Chandaka - B GIS S/S	220/132	OPTCL	320	MAR-17
236	Cuttack s/s (Poporada)	220/132	OPTCL	160	MAR-17
237	Infocity-II GIS	220/33	OPTCL	80	MAR-17
238	Malkangiri S/S	220/33	OPTCL	40	MAR-17
239	Ablowal (Patoala) s/s (Addl.)	220/66	PSTCL	160	MAR-17



240	Bhari s/s	220/66	PSTCL	160	MAR-17
241	Bhateri s/s (Aug.) (160-100)	220/66	PSTCL	60	MAR-17
242	Bhawanimandi s/s	220/132	RVPNL	160	MAR-17
243	Jhalamand s/s	220/132	RVPNL	160	MAR-17
244	Ambattur 3dr Main Road	230/110	TANTRANSCO	200	MAR-17
245	Kurukathi	230/110	TANTRANSCO	80	MAR-17
246	Poiyur	230/110	TANTRANSCO	200	MAR-17
247	Chandausi, Shambhal (2x160 MVA)	220/132	UPPTCL	160	MAR-17
248	Gr. Noida (400) (Aug) (200-160)	220/132	UPPTCL	40	MAR-17
249	Rania s/s	220/132	UPPTCL	200	MAR-17
250	Domjur s/s	220/132	WBSETCL	160	MAR-17
<b>Total of State Sector</b>				<b>19276</b>	
<b>Total of 220 kV</b>				<b>19476</b>	
<b>GRAND TOTAL</b>				<b>81816</b>	
<b>Substation commissioned/ready for commission during 2015-16 (as on 31.03.2016)</b>					
<b>Sl. No.</b>	<b>Name of Sub-Station</b>	<b>Voltage Ratio (kV/kV)</b>	<b>Executing Agency</b>	<b>Capacity (MW/MVA)</b>	<b>Month of Completion</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>±800 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Biswanath Chariyali & Agra HVDC terminal (Pole-I)	±800	PGCIL	1500	NOV-15
<b>Total of Central Sector</b>				<b>1500</b>	
<b>Total of ±800 kV</b>				<b>1500</b>	
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
2	Angul (ICT-II)	765/400	PGCIL	1500	APR-15
3	Bareilly (ICT-I)	765/400	PGCIL	1500	APR-15
4	Thiruvalam S/S	765/400	PGCIL	1500	APR-15
5	Angul (ICT-III)	765/400	PGCIL	1500	MAY-15
6	Champa Pooling Station(ICT-I)	765/400	PGCIL	1500	JUN-15
7	Vadodara S/S	765/400	PGCIL	3000	JUN-15



8	Vindhyachal Pooling Station (ICT-II)	765/400	PGCIL	1500	AUG-15
9	Angul S/S (ICT-IV)	765/400	PGCIL	1500	JAN-16
10	Champa Pooling Station ICT-II	765/400	PGCIL	1500	MAR-16
11	Varanasi (GIS) S/S	765/400	PGCIL	3000	MAR-16
<b>Total of Central Sector</b>				<b>18000</b>	
<b>STATE SECTOR</b>					
12	Aurangabad - III (Ektuni) S/S	765/400	MSETCL	1500	MAR-16
<b>Total of State Sector</b>				<b>1500</b>	
<b>Total of 765 kV</b>				<b>19500</b>	
<b>400 kV</b>					
<b>CENTRAL SECTOR</b>					
13	Purnea (Aug.) (500-315)	400/220	PGCIL	160	JUN-15
14	Biswanath Chariyali S/S	400/132	PGCIL	200	SEP-15
15	Kozhikode S/Stn. (2x315)	400/220	PGCIL	630	OCT-15
16	Madhugiri S/S	400/220	PGCIL	1000	NOV-15
17	Muzaffarpur (ICT)	400/220	PGCIL	500	DEC-15
18	Agra S/S (Aug.)	400/220	PGCIL	315	JAN-16
19	Biswanath Chariyali S/S (ICT-II)	400/132	PGCIL	200	JAN-16
20	Bagpat (GIS) ICT-I S/S	400/220	PGCIL	500	MAR-16
21	Kishanganj ICT-I	400/220	PGCIL	500	MAR-16
22	Malekuttaiayur (Extn.)	400/220	PGCIL	500	MAR-16
23	Mandola (Aug.)ICT-I (4x500-4x315)	400/220	PGCIL	185	MAR-16
24	Panchkula	400/220	PGCIL	500	MAR-16
25	Purnea (Replacement) (500-315)	400/220	PGCIL	185	MAR-16
26	Sasaram (Pusali) (Replacement ) ICT-I (500-315)	400/220	PGCIL	185	MAR-16
<b>Total of Central Sector</b>				<b>5560</b>	
<b>PVT SECTOR</b>					
27	Hazira S/S	400/220	EPTCL	1000	JUL-15
28	Rewa Road (GIS)	400/220	SEUPPTCL	630	NOV-15
<b>Total of PVT Sector</b>				<b>1630</b>	



STATE SECTOR					
29	Sarnath (Aug)	400/220	UPPTCL	500	APR-15
30	Sarojini Nagar (Aug.)	400/220	UPPTCL	75	APR-15
31	Kukurmara (Azara) S/S	400/220	AEGCL	630	MAY-15
32	Bareilly (Aug) (2x315) S/S	400/220	UPPTCL	315	MAY-15
33	Kharghar S/S	400/220	MSETCL	315	JUN-15
34	Nagda (Addl.)	400/220	MPPTCL	315	AUG-15
35	Duburi S/S	400/220	OPTCL	630	AUG-15
36	Muradnagar II (ICT-I)	400/220	UPPTCL	240	SEP-15
37	Aligarh S/s	400/220	UPPTCL	500	OCT-15
38	Katni (Addl.)	400/220	MPPTCL	315	NOV-15
39	Koradi -II (ICT-I)	400/220	MSETCL	500	NOV-15
40	Muradnagar - II (ICT-II) S/S	400/220	UPPTCL	240	DEC-15
41	Manubolu (Nellore) S/S	400/220	APTRANSCO	315	JAN-16
42	Chorania (Aug.) S/S	400/220	GETCO	500	JAN-16
43	Vadavi (Aug.) S/S	400/220	GETCO	315	JAN-16
44	Ajmer S/S	400/220	RVPNL	315	JAN-16
45	Mamidipalli S/S	400/220	TSTRANSCO	315	JAN-16
46	Mundka s/s(3rd 400/220 kV ICT)	400/220	DTL	315	FEB-16
47	Nanded (Kumbhargaoon)S/S (ICT-I)	400/220	MSETCL	500	FEB-16
48	Raipur S/S (ICT I & II.)	400/220	CSPTCL	630	MAR-16
49	Bamnoli (ICT Replacement )	400/220	DTL	370	MAR-16
50	Asoj S/S	400/220/33	GETCO	500	MAR-16
51	Soja S/S	400/220/33	GETCO	500	MAR-16
52	Rishikesh (Aug.)	400/220	PTCUL	75	MAR-16
53	Suryapet S/S	400/220	TSTRANSCO	630	MAR-16
<b>Total of State Sector</b>				<b>9855</b>	
<b>Total of 400 kV</b>				<b>17045</b>	
<b>220 kV</b>					
CENTRAL SECTOR					
54	Mokokchung (New)	220/132	PGCIL	30	JUL-15
55	Mokokchung (ICT-II)	220/132	PGCIL	30	AUG-15



56	Ara (ICT)	220/132	PGCIL	160	DEC-15
57	Birpara (160-100) (Aug.)	220/132	PGCIL	60	DEC-15
58	Siliguri (160 - 100) (Aug.)	220/132	PGCIL	60	JAN-16
59	Girdih (2nd Trf.) S/S	220/132	DVC	150	MAR-16
60	Kalyaneswari S/S	220/132	DVC	160	MAR-16
61	Purnea (Replacements ) (160-100)	220/132	PGCIL	60	MAR-16
62	Purnea ICT-II S/S	220/132	PGCIL	160	MAR-16
<b>Total of Central Sector</b>				<b>870</b>	
<b>STATE SECTOR</b>					
63	Hindupur (Aug.)	220/66	APTRANSCO	60	APR-15
64	Manubolu (Aug.)	220/66	APTRANSCO	100	APR-15
65	Peera Garhi (2x100)	220/33	DTL	200	APR-15
66	Daultabad	220/66	HVPNL	100	APR-15
67	Nawada (Addl.)	220/66	HVPNL	100	APR-15
68	Ambewadi (Aug.)	220/110	KPTCL	45	APR-15
69	Kemar (Aug.)	230/110	KPTCL	100	APR-15
70	Datia S/S	220/132	MPPTCL	160	APR-15
71	Gwalior-II (Banmore) S/S	220/132	MPPTCL	160	APR-15
72	Boisar S/S	220/33	MSETCL	50	APR-15
73	Butibori S/S	220/132	MSETCL	100	APR-15
74	Chinchwad S/S	220/22	MSETCL	50	APR-15
75	Coiorchem S/S	220/22	MSETCL	50	APR-15
76	Dhule S/S	220/33	MSETCL	25	APR-15
77	Kamba S/S	220/22	MSETCL	50	APR-15
78	Magarpatta S/S	220/132	MSETCL	100	APR-15
79	Nalasopara (Aug.)	220/22	MSETCL	100	APR-15
80	Pegasus S/S	220/22	MSETCL	25	APR-15
81	Raymond S/S	220/33	MSETCL	50	APR-15
82	Satana S/S	220/132	MSETCL	200	APR-15



83	Serum S/S	220/22	MSETCL	50	APR-15
84	Duburi S/S	220/33	OPTCL	40	APR-15
85	Banur (Aug.)	220/66	PSTCL	100	APR-15
86	Devigarh (Aug.) (2nd Addl.)	220/66	PSTCL	160	APR-15
87	Haridwar (Aug.) S/S	220/33	PTCUL	120	APR-15
88	Sitapura S/S	220/132	RVPNL	160	APR-15
89	Tehendesar S/S	220/132	RVPNL	100	APR-15
90	Anthiyur (Addl.)	230/110	TANTRANSCO	100	APR-15
91	Guindy (GIS ) (New) S/S	230/110	TANTRANSCO	200	APR-15
92	Thondayarpeta (Addl)	230/110	TANTRANSCO	100	APR-15
93	Fabcity S/S	220/132	TSTRANSCO	150	APR-15
94	Miyapur S/S	220/132	TSTRANSCO	160	APR-15
95	B.K.T Lucknow (Now)	220/132	UPPTCL	120	APR-15
96	Chibramau (Aug.)	220/132	UPPTCL	60	APR-15
97	Jansath, Muzaffarnagar (New)	220/132	UPPTCL	200	APR-15
98	sarojini Nagar (Aug.)	220/132	UPPTCL	60	APR-15
99	Kudus -II (Addl.) S/S	220/33	MSETCL	100	MAY-15
100	Abohar S/S	220/66	PSTCL	100	MAY-15
101	Aau S/S	220/132	RVPNL	160	MAY-15
102	Alandur (GIS) S/S	220/110	TANTRANSCO	100	MAY-15
103	Erragadda (3x160)	220/132	TSTRANSCO	160	MAY-15
104	B.K.T. (Aug) -II	220/132	UPPTCL	60	MAY-15
105	Mirzapur (Aug.) - II	220/132	UPPTCL	100	MAY-15
106	RPH (Aug.) S/S	220/132	UPPTCL	60	MAY-15
107	Sahibabad (Aug.)	220/132	UPPTCL	40	MAY-15
108	Shamli (Aug.) S/S	220/132	UPPTCL	40	MAY-15
109	Agiyol (Aug.)	220/66	GETCO	50	JUN-15
110	Asoj (Aug.)	220/132	GETCO	150	JUN-15
111	Dhangadhra (Aug.)	220/66	GETCO	60	JUN-15



112	Dhasa (Aug.)	220/66	GETCO	60	JUN-15
113	Jamnagar (Aug.)	220/66	GETCO	60	JUN-15
114	Jangral (Aug.)	220/66	GETCO	60	JUN-15
115	Manjuvas S/S	220/11	GETCO	50	JUN-15
116	Radhanpur (Aug.)	220/66	GETCO	50	JUN-15
117	Rajkot (Nyara) (Aug.)	220/66	GETCO	60	JUN-15
118	Wagra (Aug.)	220/66	GETCO	50	JUN-15
119	Dumka S/S	220/132	JSEB	300	JUN-15
120	Pithampur S/S	220/132	MPPTCL	160	JUN-15
121	Sayane S/S	220/33	MSETCL	25	JUN-15
122	Chhajali (Aug.) (Addl.) S/S	220/66	PSTCL	100	JUN-15
123	Ghobaya S/S	220/66	PSTCL	50	JUN-15
124	Tanda (New) S/S	220/132	UPPTCL	320	JUN-15
125	Bakreswar S/S	220/33	WBSETCL	50	JUN-15
126	Khoday Glass Factory	220/66	KPTCL	300	JUL-15
127	Mendhasal S/S	220/33	OPTCL	100	JUL-15
128	Puri (Samangara) S/S	220/132	OPTCL	160	JUL-15
129	Rengali S/S	220/33	OPTCL	20	JUL-15
130	GNDTP Bathinda (Aug.)	220/66	PSTCL	100	JUL-15
131	Mahilpur (Aug.)	220/66	PSTCL	100	JUL-15
132	S.P.Koil (3rd Auto) (Aug.)	230/110	TANTRANSCO	20	JUL-15
133	Erragadda (2nd) S/S	220/132	TSTRANSCO	160	JUL-15
134	Sirathu S/S	220/132	UPPTCL	160	JUL-15
135	Bina S/S	220/132	MPPTCL	160	AUG-15
136	Julwania S/S	220/132	MPPTCL	160	AUG-15
137	Mendhegiri S/S	220/33	MSETCL	100	AUG-15
138	Mulund S/S	220/22	MSETCL	50	AUG-15
139	Shedyal S/S	220/33	MSETCL	100	AUG-15
140	Tilwani S/S	220/33	MSETCL	50	AUG-15



141	Alandur (CMRL)	220/110	TANTRANSCO	100	AUG-15
142	Bhelupur (New). S/S	220/33	UPPTCL	60	AUG-15
143	Lalitpur S/S	220/132	UPPTCL	200	AUG-15
144	Rampur -II (Extn.)	220/132	UPPTCL	100	AUG-15
145	Indore (Aug.) S/S	220/132	MPPTCL	40	SEP-15
146	Colourchem ICT - II S/S	220/22	MSETCL	50	SEP-15
147	Shedyal ICT-II S/S	220/33	MSETCL	100	SEP-15
148	Vatika S/S	220/132/33	RVPNL	160	SEP-15
149	Boner (New) ICT-I	220/132	UPPTCL	100	SEP-15
150	Debai (ICT-I) S/S	220/132	UPPTCL	100	SEP-15
151	Dewas S/S	220/132	MPPTCL	160	OCT-15
152	Kudus-II (2nd T/F)	220/33	MSETCL	100	OCT-15
153	Sayla S/S	220/132/33	RVPNL	160	OCT-15
154	Thiruverkkadu	230/110	TANTRANSCO	200	OCT-15
155	Modipuram (Aug) (200-160)	220/132	UPPTCL	40	OCT-15
156	New Jalpaiguri (NJP) (Aug.) S/S	220/132	WBSETCL	160	OCT-15
157	Bobbili (Vizianagaram)	220/132	APTRANSCO	100	NOV-15
158	Atul (Navera) S/S	220/66	GETCO	320	NOV-15
159	Modasa S/S	220/66	GETCO	260	NOV-15
160	Fozal S/S	220/33	HPPTCL	126	NOV-15
161	Anuppur (Addl.) S/S	220/132	MPPTCL	160	NOV-15
162	Chhindwara (Addl.) S/S	220/132	MPPTCL	160	NOV-15
163	Sirmour S/S	220/132	MPPTCL	160	NOV-15
164	Shirsuphal S/S	220/22	MSETCL	50	NOV-15
165	Kharar (Aug.)	220/66	PSTCL	60	NOV-15
166	Salem (Aug.)	220/110	TANTRANSCO	20	NOV-15
167	Osmania University	220/132	TSTRANSCO	160	NOV-15
168	Azamgarh -II (Aug.)	220/132	UPPTCL	100	NOV-15
169	Baraut (Aug.)	220/132	UPPTCL	40	NOV-15





170	Muradnagar (Aug.)	220/132	UPPTCL	100	NOV-15
171	Thimmapuram S/S	220/132	APTRANSCO	100	DEC-15
172	Charadava S/S	220/66	GETCO	200	DEC-15
173	A-4, Faridabad S/s	220/66	HVPNL	200	DEC-15
174	Sampla (Aug.)	220/132	HVPNL	100	DEC-15
175	Arasikere S/S	220/110	KPTCL	200	DEC-15
176	DG Plant Yelahanka	220/66	KPTCL	300	DEC-15
177	Khanapur S/S	220/33	MSETCL	100	DEC-15
178	Nandgaon Peth S/S	220/33	MSETCL	100	DEC-15
179	Phulambri S/S	220/132	MSETCL	100	DEC-15
180	Sayne (Addl.) S/S	220/33	MSETCL	25	DEC-15
181	Tembhurni (Addl.)	220/33	MSETCL	50	DEC-15
182	Bassi Pathana (Aug.) (2nd Addl.)	220/66	PSTCL	100	DEC-15
183	Behror S/S	220/132	RVPNL	160	DEC-15
184	Kuchera S/S	220/132	RVPNL	160	DEC-15
185	Thingalur S/S	230/110	TANTRANSCO	200	DEC-15
186	Chatta (New) (2x160+2x40)	220/132	UPPTCL	400	DEC-15
187	Firozabad (Aug) (160-60)	220/132	UPPTCL	60	DEC-15
188	Harhua (New) (60) S/S	220/33	UPPTCL	60	DEC-15
189	Loni (Aug) (200-150)	220/132	UPPTCL	50	DEC-15
190	Mainpuri (Aug.II) (160-100)	220/132	UPPTCL	50	DEC-15
191	Sarojini Nagar (Aug.) (200-100)	220/132	UPPTCL	100	DEC-15
192	Sonabil (2x100)	220/132	AEGCL	200	JAN-16
193	Hinganghat S/S	220/33	MSETCL	50	JAN-16
194	GHTP Lehra Mohabbaton (Aug.) (160-100)	220/66	PSTCL	60	JAN-16
195	Omega S/S	230/110	TANTRANSCO	100	JAN-16
196	Ulundurpet S/S	230/110	TANTRANSCO	100	JAN-16
197	Lalitpur (Aug.) (160-100)	220/132	UPPTCL	60	JAN-16
198	Orai (Aug.) -II (160-100)	220/132	UPPTCL	60	JAN-16



199	Sambhal (Aug.) III (100)	220/132	UPPTCL	100	JAN-16
200	Dharampur S/S	220/132	WBSETCL	320	JAN-16
201	Pattiseema S/S	220/11	APTRANSCO	60	FEB-16
202	Rachagunneri S/S (in Chitoor distt.)	220/132	APTRANSCO	100	FEB-16
203	Wazirpur (GIS)	220/33	DTL	200	FEB-16
204	Atri (Karadagadia) 1st ICT S/S	220/132	OPTCL	160	FEB-16
205	Chonkarwada S/S (Bharatpur Distt.)	220/132	RVPNL	160	FEB-16
206	NPH (Jaipur) (GSS) (AUG.)	220/132	RVPNL	160	FEB-16
207	Ramgarh (GSS) (AUG)	220/132	RVPNL	160	FEB-16
208	Gurubarapally S/S	230/110	TANTRANSCO	100	FEB-16
209	Vyasarpadi	230/110	TANTRANSCO	200	FEB-16
210	Boko (Add.Trf)	220/132	AEGCL	100	MAR-16
211	Tinsukia (Aug.) (2x50 by 2x100)	220/132	AEGCL	100	MAR-16
212	Gangavaram port	220/33	APTRANSCO	100	MAR-16
213	Sonenagar S/S	220/132/33	BSEB	100	MAR-16
214	Girwani S/S	220/132	CSPTCL	160	MAR-16
215	Charanka S/S	220/66	GETCO	200	MAR-16
216	Dhangadhra ICT-II	220/66	GETCO	60	MAR-16
217	Dhansura S/S	220/66	GETCO	50	MAR-16
218	Hadala ICT-II	220/66	GETCO	110	MAR-16
219	Jamnagar S/S	220/132	GETCO	50	MAR-16
220	Kheralu S/S	220/66	GETCO	160	MAR-16
221	Lalpar S/S	220/66	GETCO	60	MAR-16
222	Moti Paneli S/S	220/66	GETCO	50	MAR-16
223	Navsari S/S	220/66	GETCO	50	MAR-16
224	Palanpur S/S	220/66	GETCO	160	MAR-16
225	Ranasan S/S	220/132	GETCO	50	MAR-16
226	Sagapara S/S	220/66	GETCO	50	MAR-16
227	Sardargadh S/S	220/66	GETCO	50	MAR-16
228	Tharad S/S	220/66	GETCO	100	MAR-16
229	Vallabhipur S/S ( Upgradation from 132 kV)	220/132	GETCO	200	MAR-16
230	Vapi (Addl.) S/S	220/66	GETCO	60	MAR-16
231	Veloda (Sankhari) S/S	220/66	GETCO	320	MAR-16
232	Waghodia S/S	220/66	GETCO	50	MAR-16



233	Chaibasa	220/132	JSEB	300	MAR-16
234	Ashoknagar S/S (upgradation)	220/132	MPPTCL	160	MAR-16
235	Shivpuri (addl) S/S	220/132	MPPTCL	160	MAR-16
236	Akurdi (3x50)	220/22	MSETCL	150	MAR-16
237	Bhalwani S/S	220/33	MSETCL	50	MAR-16
238	Bhokar S/S (addl.)	220/132/33	MSETCL	200	MAR-16
239	Bridestone (addl.)	220/33	MSETCL	50	MAR-16
240	Chakan-II	220/132	MSETCL	200	MAR-16
241	Gadchandur (50-25)	220/33	MSETCL	25	MAR-16
242	Kondhwa S/S	220/22	MSETCL	100	MAR-16
243	MIDC Lonand S/S	220/132/33	MSETCL	150	MAR-16
244	Magarpatta S/S (ICT-I)	220/132	MSETCL	100	MAR-16
245	Mahape (addl.)	220/22	MSETCL	50	MAR-16
246	Manjarsumbha S/S	220/33	MSETCL	25	MAR-16
247	Pal Dombivali S/S	220/22	MSETCL	100	MAR-16
248	Walchandnagar	220/132	MSETCL	200	MAR-16
249	Nangalbibra S/S (at Agia in Assam for Meghalaya)	220/132	MeECL	100	MAR-16
250	Naraingarh S/S (Upgraded from 132 kV)	220/66	PSTCL	160	MAR-16
251	Badnu (2nd ICT addl.)	220/132	RVPNL	160	MAR-16
252	Barli (Distt. Jodhpur ) S/S	220/132	RVPNL	160	MAR-16
253	Danta Ramgarh	220/132	RVPNL	160	MAR-16
254	Jethana S/S	220/132	RVPNL	160	MAR-16
255	Niawana S/S	220/132	RVPNL	160	MAR-16
256	Phalodi (2nd ICT addl.)	220/132	RVPNL	160	MAR-16
257	Alandur (Addl.) S/S	230/33	TANTRANSCO	200	MAR-16
258	Anupankulam (3rd auto transformer)	230/110	TANTRANSCO	100	MAR-16
259	Guindy (3rd auto tx.)	230/110	TANTRANSCO	100	MAR-16
260	Karuvalur (JICA) S/S	230/110	TANTRANSCO	200	MAR-16
261	Manthani S/S	220/132	TSTRANSCO	200	MAR-16
262	Salivagu Lift Irrigation	220/11	TSTRANSCO	63	MAR-16
263	Boner, Aligarh (New)	220/132	UPPTCL	160	MAR-16
264	Dadri (Aug)(160-100)	220/132	UPPTCL	60	MAR-16
265	Firozabad (Aug.)	220/132	UPPTCL	50	MAR-16
266	Gajraula (Aug.)	220/132	UPPTCL	60	MAR-16



267	Noida Sector - 129 (Aug.)	220/132	UPPTCL	160	MAR-16
268	Sikandara (Agra) (Aug) (2x60-1x60)	220/33	UPPTCL	60	MAR-16
269	moradabad (Aug.) (160-100)	220/132	UPPTCL	60	MAR-16
<b>Total of State Sector</b>				<b>23934</b>	
<b>Total of 220 kV</b>				<b>24804</b>	
<b>Grand Total</b>				<b>62849</b>	

**Substation commissioned/ready for commission during 2014-15  
(as on 31.03.2015)**

Sl. No.	Name of Sub-Station	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1	2	3	4	5	6
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Dharamjaygarh/ Korba Pooling station	765/400	PGCIL	1500	JUN-14
2	Kurnool S/S	765/400	PGCIL	3000	JUN-14
3	Aurangabad ICT-II	765/400	PGCIL	1500	JUL-14
4	Dharamjaygarh/ Korba Pooling station ICT - II	765/400	PGCIL	1500	JUL-14
5	Jharsuguda Pooling Station	765/400	PGCIL	1500	JUL-14
6	Jharsuguda (2nd ICT)	765/400	PGCIL	1500	OCT-14
7	Nellore I & II - ICT	765/400	PGCIL	3000	OCT-14
8	Sholapur (GIS) S/S	765/400	PGCIL	3000	FEB-15
9	Angul Pooling Station. S/S (4x1500)	765/400	PGCIL	1500	MAR-15
10	Bareilly (ICT-II)	765/400	PGCIL	1500	MAR-15
11	Thiruvalem S/S (2x1500)	765/400	PGCIL	1500	MAR-15
12	Vindhyachal Pooling Station (ICT-I)	765/400	PGCIL	1500	MAR-15
<b>Total of Central Sector</b>				<b>22500</b>	
<b>PVT SECTOR</b>					
13	Agaria (Bhopal) (2x1500)	765/400	SGL	3000	JUL-14
14	Dhule S/S (BDTCL) (2x1500)	765/400	SGL	3000	SEP-14
15	Koradi - III S/S	765/400	APL	3000	MAR-15
<b>Total of PVT Sector</b>				<b>9000</b>	
<b>STATE SECTOR</b>					
16	Anpara D. S/S	765/400	UPPTCL	1000	JUN-14
17	Anta (Distt. Banra) Pooling Station	765/400	RVPNL	3000	FEB-15



18	Phagi (jaipur South ) (2x1500 ) S/S	765/400	RVPNL	3000	FEB-15
<b>Total of State Sector</b>				7000	
<b>Toatl of 765 kV</b>				<b>38500</b>	
<b>400 kV</b>					
<b>CENTRAL SECTOR</b>					
19	Rangpoo (GIS)	400/220	PGCIL	315	APR-14
20	Lakhisarai S/S (2nd Trf)	400/132	PGCIL	200	MAY-14
21	Rangpo (2nd ICT) S/S	400/220	PGCIL	315	MAY-14
22	Rangpo 3rd & 4th ICT	400/220	PGCIL	630	JUN-14
23	Shahajanpur	400/220	PGCIL	315	JUN-14
24	Navsari S/S	400/220	PGCIL	500	JUL-14
25	Rangpo ICT - V	400/220	PGCIL	315	JUL-14
26	Wanpoo ICT-II	400/220	PGCIL	315	JUL-14
27	Sahajahanpur (ICT-II) S/S	400/220	PGCIL	500	SEP-14
28	Allahabad (Aug.) S/S	400/220	PGCIL	315	OCT-14
29	Bassi (Aug.) S/S	400/220	PGCIL	500	OCT-14
30	Meerut (Aug.) S/S	400/220	PGCIL	500	OCT-14
31	Chaibasa S/S	400/220	PGCIL	315	NOV-14
32	Magarwada S/S	400/220	PGCIL	630	NOV-14
33	Boisor (Aug.) S/S	400/220	PGCIL	500	DEC-14
34	Chaibasa (ICT-II ) S/S	400/220	PGCIL	315	JAN-15
35	Subhashgram (ICT) S/S	400/220	PGCIL	500	JAN-15
36	Wagoora S/Stn. 4th ICT (3x105) (Spare)	400/220	PGCIL	105	JAN-15
37	Bhadrawati (Aug.)	400/220	PGCIL	315	MAR-15
<b>Total of Central Sector</b>				<b>7400</b>	
<b>STATE SECTOR</b>					
38	Neelmangla (Addl. 3rd Trf.)	400/220	KPTCL	500	APR-14
39	Nakodar (1st Trf.)	400/220	PSTCL	315	APR-14
40	Nakodar(2nd Trf.)	400/220	PSTCL	315	MAY-14
41	Almathy (3rd ICT)	400/230	TANTRANSO	315	MAY-14



42	Sungavarchatram 4th ICT	400/110	TANTRANSCO	200	JUN-14
43	Kayathar S/S	400/230	TANTRANSCO	315	JUL-14
44	Thiruvalem S/S	400/230	TANTRANSCO	315	JUL-14
45	Kayathar (Addl.) S/S	400/110	TANTRANSCO	200	AUG-14
46	Galwel S/S	400/220	APTRANSCO	315	SEP-14
47	Harsh Vihar (Loni) GIS (2x315)	400/220	DTL	630	SEP-14
48	Mukatsar (2x315)	400/220	PSTCL	630	SEP-14
49	Kayathar (2nd ICT)	400/220	TANTRANSCO	315	SEP-14
50	Greater Noida (Extn.)	400/132	UPPTCL	185	OCT-14
51	Hoody (3rd Trf) S/S	400/220	KPTCL	500	NOV-14
52	Julwania S/S	400/220	MPPTCL	630	NOV-14
53	Barmer (Aug) S/S	400/220	RVPNL	315	NOV-14
54	Chitorgarh S/S	400/220	RVPNL	315	NOV-14
55	Thiruvalem (2nd ICT)	400/230	TANTRANSCO	315	NOV-14
56	Thappakundu S/S	400/110	TANTRANSCO	0	DEC-14
57	Anaikadavu S/S	400/230-110	TANTRANSCO	0	DEC-14
58	Madakkathara (3rd Trf.)S/S	400/220	KSEB	315	JAN-15
59	Ashta New (2nd Trf.)	400/220	MPPTCL	315	JAN-15
60	Vadavi S/S	400/220	GETCO	315	FEB-15
<b>Total of State Sector</b>				<b>7570</b>	
<b>Toatl of 400 kV</b>				<b>14970</b>	
<b>220 kV</b>					
<b>CENTRAL SECTOR</b>					
61	Rangpoo (GIS)	220/132	PGCIL	100	APR-14
62	Rangpo (2nd ICT) S/S	220/132	PGCIL	100	MAY-14
63	Rangpo 3rd ICT)	220/132	PGCIL	100	JUN-14
64	Purnea S/S	220/132	PGCIL	160	SEP-14
<b>Total of Central Sector</b>				<b>460</b>	
<b>STATE SECTOR</b>					
65	Ghulal (Addl.) S/S	220/66	PSTCL	100	APR-14



66	Madri (Udaipur)	220/132	RVPNL	100	APR-14
67	Karamdai (New)	230/110	TANTRANSCO	100	APR-14
68	Faridnagar (New) S/S	220/132/33	UPPTCL	160	APR-14
69	Badnu (Upgradation)	220/132	RVPNL	160	MAY-14
70	Bundi (Addl.) S/S	220/132	RVPNL	100	MAY-14
71	Arasur 400KV S/S (4th ICT)	230/110	TANTRANSCO	100	MAY-14
72	Phursungi S/S	220/33	MSETCL	50	JUN-14
73	Dharamkot S/S	220/66	PSTCL	160	JUN-14
74	Kakrala (Addl.)	220/66	PSTCL	100	JUN-14
75	Rehana Jattan (Addl.)	220/66	PSTCL	100	JUN-14
76	Dehradun S/S	220/132	PTCUL	320	JUN-14
77	Podili S/S (Add Trf)	220/132	APTRANSCO	100	JUL-14
78	Chhuri (Korba)	220/132	CSPTCL	160	JUL-14
79	Kotkapura (New) S/S	220/66	PSTCL	100	JUL-14
80	Malout (Addl.)	220/66	PSTCL	100	JUL-14
81	Sandhaur (New) S/S	220/132	PSTCL	100	JUL-14
82	Coimbatore S/S	230/110	TANTRANSCO	100	JUL-14
83	Vishrampur S/S	220/132	CSPTCL	160	AUG-14
84	Pipariya S/S	220/132	MPPTCL	160	AUG-14
85	Rajgarh (Biora) (Addl) S/S	220/132	MPPTCL	160	AUG-14
86	Ratlam S/S	220/132	MPPTCL	160	AUG-14
87	Eachangadu S/S	230/110	TANTRANSCO	50	AUG-14
88	Pallakapalayam S/S	230/110	TANTRANSCO	200	AUG-14
89	Khair	220/132	UPPTCL	320	AUG-14
90	Nehtour	220/132	UPPTCL	100	AUG-14
91	Sirathu (Kaushambi)	220/132	UPPTCL	160	AUG-14
92	Sadasivpet S/S	220/132	APTRANSCO	100	SEP-14
93	Harsh Vihar GIS	220/66	DTL	320	SEP-14
94	Punnapra S/S	220/132	KSEB	200	SEP-14



95	Veerapuram S/S	230/110	TANTRANSCO	100	SEP-14
96	Firozabad (Extn.)	220/132	UPPTCL	23	SEP-14
97	Rampur S/S	220/132	UPPTCL	100	SEP-14
98	Sirsaganj ( Firozabad) S/S	220/132/33	UPPTCL	100	SEP-14
99	Mirzapur S/S	220/132	UPPTCL	100	OCT-14
100	Noida Sec-20 S/S (Extn.)	220/132	UPPTCL	23	OCT-14
101	Noida Sec-62 (Addl.)	220/132	UPPTCL	63	OCT-14
102	Rasra (Baliala) S/S	220/132	UPPTCL	320	OCT-14
103	Dairy Farm (Addl. Trf)	220/132	APTRANSCO	100	NOV-14
104	Gooty (Aug.) (160-100)	220/132	APTRANSCO	60	NOV-14
105	Ongole S/S (Aug.) (160-100)	220/132	APTRANSCO	60	NOV-14
106	Doma (Addl. Trf)	220/132	CSPTCL	160	NOV-14
107	Mungeli (160+40)	220/132	CSPTCL	200	NOV-14
108	Saraipali (Addl. Trf)	220/132	CSPTCL	160	NOV-14
109	Karjan (2nd Trf ) S/S	220/66	GETCO	100	NOV-14
110	A-4 Faridabad (GIS)	220/66	HVPNL	200	NOV-14
111	Mahalgaon (Addl.)	220/132	MPPTCL	160	NOV-14
112	Algon (Addl.)	220/66	PSTCL	100	NOV-14
113	Chohla Sahib (Addl.) (Trf.)	220/132	PSTCL	100	NOV-14
114	Passiana (Addl.) S/S	220/132	PSTCL	100	NOV-14
115	Bhadla (UC 400 kV)	220/132	RVPNL	160	NOV-14
116	Bhadra S/S	220/132	RVPNL	50	NOV-14
117	Hanumangarh (Aug.) (160-100)	220/132	RVPNL	60	NOV-14
118	Nokha (Aug.) ( 160-100)	220/132	RVPNL	60	NOV-14
119	Sikar (Aug.) (160-100)	220/132	RVPNL	60	NOV-14
120	Pugalur (Addl.) (3rd Trf.)	230/110	TANTRANSCO	100	NOV-14
121	Gokarna (Aug) Add	220/132	WBSETCL	160	NOV-14
122	Hura (Addl.) (2nd Trf.)	220/132	WBSETCL	160	NOV-14
123	New Bishnupur (Aug) Add	220/132	WBSETCL	160	NOV-14





124	Nawada S/S	220/66	HVPNL	100	DEC-14
125	Manglore SEZ SS	220/110	KPTCL	200	DEC-14
126	Shirsuphal S/S	220/33	MSETCL	50	DEC-14
127	Coimbatore (Addil Trans.)	230/110	TANTRANSCO	100	DEC-14
128	Dhar S/S	220/132	MPPTCL	160	JAN-15
129	Ganj Basoda S/S	220/132	MPPTCL	160	JAN-15
130	Panagar S/S	220/132	MPPTCL	160	JAN-15
131	Anthiyur S/S	230/110	TANTRANSCO	100	JAN-15
132	Ambetha S/S	220/66	GETCO	50	FEB-15
133	Asoj S/S	220/66	GETCO	100	FEB-15
134	Charanka (Addl.)	220/66	GETCO	100	FEB-15
135	Dahej S/S	220/66	GETCO	100	FEB-15
136	Dhokadava (Kansari) S/S	220/66	GETCO	50	FEB-15
137	Hadala S/S	220/66	GETCO	50	FEB-15
138	Halvad (Addl.)	220/66	GETCO	60	FEB-15
139	Halvad S/S	220/66	GETCO	60	FEB-15
140	Jantral S/S	220/66	GETCO	60	FEB-15
141	Kim S/S	220/66	GETCO	50	FEB-15
142	Mitha S/S	220/66	GETCO	50	FEB-15
143	Mota (Bardoli)	220/66	GETCO	50	FEB-15
144	Rajkot Nayara S/S	220/66	GETCO	50	FEB-15
145	Tharad S/S	220/66	GETCO	50	FEB-15
146	Vadavi S/S	220/66	GETCO	100	FEB-15
147	Vapi S/S	220/66	GETCO	60	FEB-15
148	Wagra S/S	220/66	GETCO	50	FEB-15
149	Bhanpura S/S	220/132	MPPTCL	160	FEB-15
150	Pegasus S/S	220/22	MSETCL	25	FEB-15
151	Kotla Jangan (Aug.)	220/132	PSTCL	100	FEB-15
152	Mohali -I (Aug)	220/66	PSTCL	60	FEB-15
153	Bundi (Addl.) S/S	220/132	RVPNL	100	FEB-15
154	Gajner (Addl.) S/S	220/132	RVPNL	160	FEB-15
155	Padampur (Addl.)S/S	220/132	RVPNL	100	FEB-15
156	Karamadai (2nd auto)	230/110	TANTRANSCO	100	FEB-15



157	Karimangalam (3rd auto)	230/110	TANTRANSCO	100	FEB-15
158	Sempatty (3rd auto)	230/110	TANTRANSCO	100	FEB-15
159	Thiruvarur (Enhancement) S/S	230/110	TANTRANSCO	20	FEB-15
160	Shajapur - I S/S	220/132	MPPTCL	160	MAR-15
161	Baithwasia S/S	220/132	RVPNL	100	MAR-15
162	Bamantukda S/S	220/132	RVPNL	100	MAR-15
163	Bidisild S/S	220/132	RVPNL	160	MAR-15
164	Nala PH (Jaipur)	220/132	RVPNL	360	MAR-15
<b>Total of State Sector</b>				<b>11624</b>	
<b>Toatl of 220 kV</b>				<b>12084</b>	
<b>Grand Total</b>				<b>65554</b>	

**Substation commissioned/ready for commission during 2013-14  
(as on 31.03.2014)**

Sl. No.	Name of Sub-Station	Voltage Ratio (kV/kV)	Executing Agency	Capacity (MW/MVA)	Month of Completion
1	2	3	4	5	6
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Meerut S/S	765/400	PGCIL	3000	MAY-13
2	Sasaram (1st Trf.) S/S	765/400	PGCIL	1500	MAY-13
3	Indore (1st Trf.)	765/400	PGCIL	1500	JUN-13
4	Indore (2nd Trf.)	765/400	PGCIL	1500	SEP-13
5	Raigarh Pooling Station (Kotra)	765/400	PGCIL	4500	OCT-13
6	Raigarh Pooling Station (Near Tamnar) 1st ICT	765/400	PGCIL	1500	OCT-13
7	Raigarh Pooling Station (Near Tamnar) 2nd ICT	765/400	PGCIL	1500	NOV-13
8	Raichur S/S (1st ICT)	765/400	PGCIL	1500	DEC-13
9	Raichur S/S (2nd ICT)	765/400	PGCIL	1500	JAN-14
10	Raipur Pooling Station	765/400	PGCIL	1500	JAN-14
11	Solapur S/S	765/400	PGCIL	3000	JAN-14
12	Raigarh Pooling Station (Near Tamnar) 3rd ICT	765/400	PGCIL	1500	FEB-14
13	Raigarh(Kotra) Pooling Stn. (4th ICT)	765/400	PGCIL	1500	FEB-14
14	Jabalpur Pooling Station (2nd ICT)	765/400	PGCIL	1500	MAR-14
15	Ranchi	765/400	PGCIL	3000	MAR-14
<b>Total of Central Sector</b>				<b>30000</b>	



<b>PVT SECTOR</b>					
16	Akola -II S/S	765/400	APL	1500	FEB-14
17	Tiroda S/S	765/400	APL	1500	FEB-14
<b>Total of PVT Sector</b>				<b>3000</b>	
<b>STATE SECTOR</b>					
18	Unnao (Phase -II) (2nd Trf.)	765/400	UPPTCL	1000	NOV-13
<b>Total of State Sector</b>				<b>1000</b>	
<b>Total of 765 kV</b>				<b>34000</b>	
<b>400 kV</b>					
<b>CENTRAL SECTOR</b>					
19	Moga (Aug.) ICT-I	400/220	PGCIL	500	JUN-13
20	Amritsar S/S	400/220	PGCIL	500	SEP-13
21	Wanpoo (1st Trf.)	400/220	PGCIL	315	SEP-13
22	Abdullapur S/S	400/220	PGCIL	315	OCT-13
23	Mapusa S/S	400/220	PGCIL	315	OCT-13
24	Nalagarh S/S	400/220	PGCIL	315	OCT-13
25	Hamirpur GIS (1st ICT)	400/220	PGCIL	315	DEC-13
26	Aurangabad S/S	400/220	PGCIL	630	JAN-14
27	Hosur (Aug.) S/S	400/220	PGCIL	315	FEB-14
28	Kishenpur (Add. Trf) S/S	400/220	PGCIL	315	FEB-14
29	Moga (Aug.) ICT-II	400/220	PGCIL	500	FEB-14
30	Hamirpur GIS (2nd ICT)	400/220	PGCIL	315	MAR-14
31	Kala S/S	400/220	PGCIL	630	MAR-14
32	Kotputli	400/220	PGCIL	630	MAR-14
33	Lakhisarai (1st Trf.)	400/132	PGCIL	200	MAR-14
34	Ludhiana (Extn.) S/S	400/220	PGCIL	500	MAR-14
<b>Total of Central Sector</b>				<b>6610</b>	
<b>STATE SECTOR</b>					
35	Pithampur S/S	400/220	MPPTCL	630	APR-13



36	Killing (Byrnihat) (2nd Trf.)S/S	400/220	MeECL	315	MAY-13
37	Ashta New S/S	400/220	MPPTCL	315	SEP-13
38	Nawada (2nd Trf.)	400/220	HVPNL	315	NOV-13
39	Agra (Aug.)	400	UPPTCL	185	NOV-13
40	Halvad	400/220	GETCO	315	JAN-14
41	Kosamba	400/220	GETCO	315	JAN-14
42	Makhu (2x315)	400/220	PSTCL	630	MAR-14
<b>Total of State Sector</b>				<b>3020</b>	
<b>Total of 400 kV</b>				<b>9630</b>	
<b>220 kV</b>					
<b>STATE SECTOR</b>					
43	Bhose (Belwandi) S/S	220/132	MSETCL	200	APR-13
44	Thondamanatham (2x100)	230/110	PED	200	APR-13
45	Renganathapuram (Aug) ( 100-50)	220/132	TANTRANSCO	50	APR-13
46	Kathapur S/S	220/132	MSETCL	100	MAY-13
47	Aliyar S/S	230/110	TANTRANSCO	100	MAY-13
48	Manali (Addl.) S/S	230/110	TANTRANSCO	100	MAY-13
49	Begusarai (Aug.)	220/132	BSEB	100	JUN-13
50	Fatuha (Aug.)	220/132	BSEB	100	JUN-13
51	Bhatiya. (2nd Trf.)	220/132	GETCO	100	JUN-13
52	Mehal Kalan (Add. Trf.)	220/66	PSTCL	100	JUN-13
53	Thudiyalur (Aug.) (100-80)	230/110	TANTRANSCO	20	JUN-13
54	Behat S/S	220/132	UPPTCL	320	JUN-13
55	Kursi Road (1st Trf.)	220/132	UPPTCL	100	JUN-13
56	Baramati (Addl.) S/S	220/132	MSETCL	100	JUL-13
57	Bangan S/S	220/66	PSTCL	160	JUL-13
58	Koyembedu (CMRL) GIS S/S	230/110	TANTRANSCO	200	JUL-13
59	Hajipur (2x100)	220/132	BSEB	200	AUG-13
60	Madhepura (2x100)	220/132	BSEB	200	AUG-13



61	Focal Point Nabha (Addl.) S/S	220/66	PSTCL	160	AUG-13
62	Baap (Upgradation)	220/132	RVPNL	160	AUG-13
63	Mansarovar (Upgradation )	220/132	RVPNL	160	AUG-13
64	Kayathar (Addl.) S/S	220/110	TANTRANSCO	100	AUG-13
65	Jawaharnagar (2x50) (GIS)	220/33	AEGCL	100	SEP-13
66	Bothe (Addl.)	220/33	MSETCL	100	SEP-13
67	Kathapur (Addl.)	220/132	MSETCL	100	SEP-13
68	Wayphale S/S	220/33	MSETCL	50	SEP-13
69	Banur S/S	220/66	PSTCL	100	SEP-13
70	Chhaiali S/S	220/66	PSTCL	100	SEP-13
71	Chogawan (Aug.) (2nd T/F) S/S	220/66	PSTCL	100	SEP-13
72	Ghulal S/S	220/66	PSTCL	100	SEP-13
73	Jhunir (Addl.) S/S	220/66	PSTCL	160	SEP-13
74	Mansarvor (2nd Trf) S/S	220/66	RVPNL	160	SEP-13
75	Theni (Add.Trf.)	230/110	TANTRANSCO	100	SEP-13
76	Kursi Road (2nd Trf.)	220/132	UPPTCL	100	SEP-13
77	Doraha (Add Tr.)	220/66	PSTCL	100	OCT-13
78	Chaksu (UPG) S/S	220/132	RVPNL	160	OCT-13
79	Thiruvarur (Aug) (100-80)	220/110	TANTRANSCO	20	OCT-13
80	Saraipali	220/132	CSPTCL	160	NOV-13
81	Cuncolim	220/33	ED- GOA	150	NOV-13
82	Badhana S/S	220/132	HVPNL	200	NOV-13
83	Mundh S/S	220/33	HVPNL	100	NOV-13
84	Samain S/S (1st Trf.)	220/132	HVPNL	100	NOV-13
85	Samain S/S (2nd Trf.)	220/33	HVPNL	100	NOV-13
86	Jabalpur (Addl.)	220/132	MPPTCL	160	NOV-13
87	Lonikhand II (Addl.) S/S	220/22	MSETCL	50	NOV-13
88	Bidanasi S/S	220/132	OPTCL	160	NOV-13
89	Laxmipur S/S	220/132	OPTCL	20	NOV-13



90	Kids Park (Aug.)	220/110	TANTRANSCO	20	NOV-13
91	Etah (Aug.)	220/132	UPPTCL	60	NOV-13
92	Fatehpur (Aug.)	220/132	UPPTCL	60	NOV-13
93	Ghazipur (Aug.)	220/132	UPPTCL	60	NOV-13
94	Gomtinagar S/S	220/132	UPPTCL	60	NOV-13
95	Mainpuri (Aug.)	220/132	UPPTCL	60	NOV-13
96	Panki (Aug.)	220/132	UPPTCL	60	NOV-13
97	Badot (Addl.)	220/132	MPPTCL	160	DEC-13
98	Chichali	220/132	MPPTCL	160	DEC-13
99	Ghulal S/S (2nd Trf)	220/66	PSTCL	100	DEC-13
100	Talwandi Bhai (Addl.)	220/132	PSTCL	100	DEC-13
101	Nellore (Aug) (160-100)	220/132	APTRANSCO	60	JAN-14
102	Rachagunneri	220/132	APTRANSCO	100	JAN-14
103	Bhachau (2nd Trf.) S/S	220/66	GETCO	100	JAN-14
104	Bhatiya. (3rd Trf.)	220/132	GETCO	100	JAN-14
105	Halvad (1x100)	220/66	GETCO	100	JAN-14
106	Kosamba	220/66	GETCO	200	JAN-14
107	Mokha S/S	220/66	GETCO	100	JAN-14
108	Sadla	220/66	GETCO	200	JAN-14
109	Badshahpur (2nd T/F) S/S	220/66	PSTCL	100	JAN-14
110	Devigarh S/S	220/66	PSTCL	100	JAN-14
111	Dhanaula S/S	220/66	PSTCL	160	JAN-14
112	Humbran (Addl.)	220/66	PSTCL	100	JAN-14
113	Pakhawal (Addl.)	220/66	PSTCL	100	JAN-14
114	Lalsot (Upgradation)	220/132	RVPNL	100	JAN-14
115	Nallamanaickenpaty (New)	230/110	TANTRANSCO	80	JAN-14
116	Robertsganj S/S	220/132	UPPTCL	160	JAN-14
117	Howrah (Aug.)	220/132	WBSETCL	160	JAN-14
118	EPIP GIS S/S	220/66	KPTCL	300	FEB-14



119	Gangapurcity	220/132	RVPNL	100	FEB-14
120	Monoharpur (UPG)	220/132	RVPNL	100	FEB-14
121	Muthaiyapuram (Add. Trf)	230/110	TANTRANSCO	100	FEB-14
122	Mylapore (GIS) New	230/110	TANTRANSCO	100	FEB-14
123	Thiruvarur (2nd Trf.) Aug. (100-80)	230/110	TANTRANSCO	20	FEB-14
124	Sadasivpet	220/132	APTRANSCO	100	MAR-14
125	Dehri (Aug.)	220/132	BSEB	100	MAR-14
126	Asoj (Aug.)	220/66	GETCO	100	MAR-14
127	Godhra (Aug.)	220/66	GETCO	50	MAR-14
128	Jarod	220/66	GETCO	100	MAR-14
129	Karamsad (Aug.)	220/66	GETCO	100	MAR-14
130	Karjan S/S	220/66	GETCO	100	MAR-14
131	PS 3 (Bhachau) S/S	220/11	GETCO	50	MAR-14
132	Popda	220/66	GETCO	100	MAR-14
133	Sartanpar S/S	220/66	GETCO	160	MAR-14
134	Sagar (Addl.)	220/132	MPPTCL	160	MAR-14
135	Ujjain S/S	220/132	MPPTCL	160	MAR-14
136	Vidisha (Addl.)	220/132	MPPTCL	160	MAR-14
137	Deogaon Rangari (1x100)	220/132	MSETCL	100	MAR-14
138	Deogaon Rangari (1x50)	220/33	MSETCL	50	MAR-14
139	Ghatodi S/S (Addl.)	220/33	MSETCL	50	MAR-14
140	Ghatodi S/S (Addl.)	220/132	MSETCL	100	MAR-14
141	Kopergaon (2x200) S/S	220/132	MSETCL	400	MAR-14
142	Kopergaon (2x50) S/S	220/33	MSETCL	100	MAR-14
143	Nanded S/S	220/22	MSETCL	50	MAR-14
144	New Butibori-III S/S	220/33	MSETCL	50	MAR-14
145	Pimpalgaon (Ranwad) (2x100)	220/132	MSETCL	100	MAR-14



146	Shivajinager (Sakri) S/S	220/132	MSETCL	100	MAR-14
147	Lapanga S/S	220/132	OPTCL	160	MAR-14
148	Chhajali (Addl.)	220/66	PSTCL	100	MAR-14
149	Gaunsgarh S/S (Addl)	220/66	PSTCL	160	MAR-14
150	Jagraon(Aug.)	220/66	PSTCL	60	MAR-14
151	Malerkotla(Aug.)	220/66	PSTCL	60	MAR-14
152	Nurmehal (T/F) S/S	220/66	PSTCL	100	MAR-14
153	Talwandi Sabo (New)	220/66	PSTCL	100	MAR-14
154	Laxmangarh S/S	220/132	RVPNL	100	MAR-14
155	Mylapore (GIS) (Addl)	230/33	TANTRANSCO	100	MAR-14
156	Safai (New) S/S	220/132	UPPTCL	320	MAR-14
157	Foundary Park	220/132	WBSETCL	320	MAR-14
158	Hura S/S	220/132	WBSETCL	160	MAR-14
<b>Total of State Sector</b>				<b>13700</b>	
<b>Toatl of 220 kV</b>				<b>13700</b>	
<b>Grand Total</b>				<b>57330</b>	
<b>Substation commissioned/ready for commission during 2012-13 (as on 31.03.2013)</b>					
					<b>As on 31- MAR-2013</b>
<b>Sl. No.</b>	<b>Name of Sub-Station</b>	<b>Voltage Ratio (kV/kV)</b>	<b>Executing Agency</b>	<b>Capacity (MW/MVA)</b>	<b>Month of Completion</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>765 kV</b>					
<b>CENTRAL SECTOR</b>					
1	Agra Aug.	765/400	PGCIL	1500	MAY-12
2	Bhiwani. S/S	765/400	PGCIL	1000	MAY-12
3	Gaya (3rd Transf)	765/400	PGCIL	1500	MAY-12
4	Moga (Aug.)	765/400	PGCIL	1500	MAY-12
5	Satna (1st ICT)	765/400	PGCIL	1000	JUN-12





6	WR Pooling Station near Sipat ( Bilaspur) (3rd ICT)	765/400	PGCIL	1500	JUL-12
7	Agra (ICT-II) S/S	765/400	PGCIL	1500	AUG-12
8	Bina. S/S	765/400	PGCIL	1000	AUG-12
9	Moga (ICT-II) S/S	765/400	PGCIL	1500	AUG-12
10	Satna (2nd ICT)	765/400	PGCIL	1000	AUG-12
11	Bhiwani ICT -II S/S	765/400	PGCIL	1000	SEP-12
12	Jhatikara S/S	765/400	PGCIL	6000	SEP-12
13	Bina (ICT-II) S/S	765/400	PGCIL	1000	MAR-13
14	Gwalior	765/400	PGCIL	3000	MAR-13
<b>Total of Central Sector</b>				<b>24000</b>	
<b>Total of 765 kV</b>				<b>24000</b>	
<b>±500 kV</b>					
<b>CENTRAL SECTOR</b>					
15	Balia & Bhiwadi convertor Stn. (Pole-II)	±500	PGCIL	1250	JUN-12
<b>Total of Central Sector</b>				<b>1250</b>	
<b>PVT SECTOR</b>					
16	Mundra & Mohindergarh (HVDC converter stn.) both poles	±500	APL	2500	MAR-13
<b>Total of PVT Sector</b>				<b>2500</b>	
<b>Total of ±500 kV</b>				<b>3750</b>	
<b>400 kV</b>					
<b>CENTRAL SECTOR</b>					
17	Jaipur (South)	400/220	PGCIL	500	MAY-12
18	Manesar (GIS)	400/220	PGCIL	500	MAY-12
19	Misa (2nd ICT)	400/220	PGCIL	315	JUN-12
20	Sohawal	400/220	PGCIL	630	JUN-12
21	Manesar (GIS) ICT-II	400/220	PGCIL	500	JUL-12
22	Navsari GIS	400/220	PGCIL	630	JUL-12
23	Bolangir (1st Trf.)	400/220	PGCIL	315	AUG-12
24	Bolangir (2nd Trf.)	400/220	PGCIL	315	OCT-12



25	Banka S/S(1st Trf.)	400/132	PGCIL	200	NOV-12
26	Bhiwani. S/S (1st Trf.)	400/220	PGCIL	315	NOV-12
27	Jaipur (South, 2nd Trf.)	400/220	PGCIL	500	NOV-12
28	Banka S/S (2nd Trf.)	400/132	PGCIL	200	DEC-12
29	Bhiwani. S/S (2nd Trf.)	400/220	PGCIL	315	JAN-13
30	Kenonjhar	400/220	PGCIL	315	JAN-13
31	Vapi (ICT) S/S	400/220	PGCIL	315	JAN-13
32	Keonjhar (2nd Trf.)	400/220	PGCIL	315	FEB-13
33	Bidadi (2nd Trf) S/S	400/220	PGCIL	500	MAR-13
34	Jind	400/220	PGCIL	630	MAR-13
35	Samba (With 80 MVAR B. Reactor)	400/220	PGCIL	630	MAR-13
<b>Total of Central Sector</b>				<b>7940</b>	
<b>STATE SECTOR</b>					
36	Dhanoda (Mohindergarh)	400/220	HVPL	315	APR-12
37	Lonikhand-II (1st Trf.)	400/220	MSETCL	500	JUN-12
38	Arambag(Aug.)	400/220	WBSETCL	315	JUN-12
39	Kharagpur (1st Trf.)	400/220	WBSETCL	315	JUL-12
40	Girwali (Parli) S/S	400/220	MSETCL	500	AUG-12
41	Kolhapur S/S	400/220	MSETCL	500	AUG-12
42	Lonikand II (2nd Trf.)	400/220	MSETCL	500	AUG-12
43	kharagpur( 2nd Trf.)	400/220	WBSETCL	315	OCT-12
44	Shankarapally (Yeddumailaram )1st (Trf.)	400/220	APTRANSCO	315	NOV-12
45	Dhanonda (Mohindergarh) (2nd Trf.)	400/220	HVPL	315	NOV-12
46	Padghe S/S	400/220	MSETCL	600	NOV-12
47	Chhegaon S/S	400/220	MPPTCL	315	DEC-12
48	Gajwel (Addl. Trf)	400/220	APTRANSCO	100	JAN-13
49	Malkaram (Addl. Trf)	400/220	APTRANSCO	100	JAN-13
50	Nawada(1st Trf.)	400/200	HVPL	315	JAN-13
51	Dhuri (2x500)	400/220	PSTCL	1000	JAN-13
52	Warora (New) S/S	400/220	MSETCL	500	FEB-13



53	Killing (Byrnihat) (Ist Trf.)S/S	400/220	MeECL	315	FEB-13
54	Azamgarh (Aug.)	400/132	UPPTCL	75	FEB-13
55	Shankarapally (Yeddumailaram )2nd & 3rd (Trf.)	400/220	APTRANSCO	630	MAR-13
56	Warora S/S	400/220	MSETCL	500	MAR-13
57	Sunguvarchatram (Add.Trf)	400/110	TANTRANSCO	200	MAR-13
58	Jeerat (Aug.)	400/220	WBSETCL	315	MAR-13
<b>Total of State Sector</b>				<b>8855</b>	
<b>Toatl of 400 kV</b>				<b>16795</b>	
<b>220 kV</b>					
<b>CENTRAL SECTOR</b>					
59	Girdih (1st Trf.) S/S	220/33	DVC	80	SEP-12
60	Giridih (1st Trf.) S/S	220/132	DVC	160	SEP-12
61	Dhanbad	220/132	DVC	300	DEC-12
62	Siliguri S/S (Extn.)	220/132	PGCIL	160	DEC-12
63	Birpara (Aug.) (160-50)	220/132	PGCIL	110	JAN-13
64	Malda (Aug.) (160-50)	220/132	PGCIL	110	JAN-13
65	Malda (2nd Trf.) (Aug.) (160-50)	220/132	PGCIL	110	FEB-13
66	CTPS (Aug.) (160-100)	220/132	DVC	60	MAR-13
67	Dhanbad S/S	220/33	DVC	80	MAR-13
68	Giridih (2nd Trf.) S/S	220/33	DVC	80	MAR-13
69	Parrulia (Aug.) ( 80-50)	220/33	DVC	30	MAR-13
<b>Total of Central Sector</b>				<b>1280</b>	
<b>STATE SECTOR</b>					
70	Agathala	220/66	GETCO	100	APR-12
71	Anjar	220/66	GETCO	100	APR-12
72	Charanka	220/66	GETCO	200	APR-12
73	Kangasiyali (3rd Trf.)	220/66	GETCO	100	APR-12
74	Lunawada	220/66	GETCO	100	APR-12
75	Shapur	220/132	GETCO	200	APR-12
76	Shiralakha	220/66	GETCO	100	APR-12
77	Tappar	220/66	GETCO	100	APR-12
78	Chhegaon S/S	220/132	MPPTCL	160	APR-12



79	Daloda	220/132	MPPTCL	160	APR-12
80	Seoni (Addl.)	220/132	MPPTCL	160	APR-12
81	Baramati	220/33	MSETCL	25	APR-12
82	Paranda (2nd trf.)	220/33	MSETCL	50	APR-12
83	Wadala Granthian	220/66	PSTCL	100	APR-12
84	Aspur S/S	220/132	RVPNL	100	APR-12
85	Dechu (Jodhpur)	220/132	RVPNL	100	APR-12
86	K.K. Dhani (GIS) S/S	220/132	RVPNL	160	APR-12
87	Padampur	220/132	RVPNL	100	APR-12
88	Barsoor. (Addl)	220/132	CSPTCL	160	MAY-12
89	Girinager (Aug.)	220/132	HPPTCL	100	MAY-12
90	Mehgaon (Addl.)S/S	220/132	MPPTCL	160	MAY-12
91	Tikamgarh (Addl.) (1x160)	220/132	MPPTCL	160	MAY-12
92	Medaram (2x50)	220/11	APTRANSCO	100	JUN-12
93	Vemnur (2x50)	220/11	APTRANSCO	100	JUN-12
94	Palla (Aug.) S/S	220/66	HVPNL	100	JUN-12
95	Balapur S/S	220/33	MSETCL	25	JUN-12
96	Bapgaon (2x50 )	220/22	MSETCL	100	JUN-12
97	Jalna S/S	220/33	MSETCL	50	JUN-12
98	Yewalwadi (VSNL Dighi)	220/22	MSETCL	50	JUN-12
99	Balasure (Aug.)	220/132/33	OPTCL	60	JUN-12
100	Paradeep S/S	220/132/33	OPTCL	50	JUN-12
101	Kharar (Aug.)	220/66	PSTCL	100	JUN-12
102	Sunam (Aug.)	220/66	PSTCL	60	JUN-12
103	Gunrock	220/132	APTRANSCO	160	JUL-12
104	Thimmapuram	220/11	APTRANSCO	50	JUL-12
105	Electric Lane (GIS)	220/33	DTL	200	JUL-12
106	Kunihar (Aug.)	220/132	HPPTCL	100	JUL-12
107	Daulatabad (Aug.)	220/66	HVPNL	100	JUL-12



108	Isherwal (Aug.)	220/132	HVNL	100	JUL-12
109	Masudpur	220/33	HVNL	100	JUL-12
110	Kattakkada (New)	220/110	KSEB	200	JUL-12
111	Punnapra	220/110	KSEB	200	JUL-12
112	South Solapur S/S	220/33	MSETCL	50	JUL-12
113	Ferozepur Road Ludhiana S/S (Addl Trf)	220/66	PSTCL	160	JUL-12
114	Kharagpur (1st Trf.)	220/132	WBSETCL	160	JUL-12
115	A-5 Faridabad	220/66	HVNL	100	AUG-12
116	Masudpur (2nd trf.)	220/132	HVNL	100	AUG-12
117	Sagwan S/S (1st Trf.)	220/132	HVNL	100	AUG-12
118	Sagwan S/S (2nd Trf.)	220/33	HVNL	100	AUG-12
119	Nimhans S/s	220/66	KPTCL	300	AUG-12
120	Sabargarh (Addl.) (1x160)	220/132	MPPTCL	160	AUG-12
121	Bapgaon S/S	220/132	MSETCL	400	AUG-12
122	Hiwarwadi S/S	220/22	MSETCL	50	AUG-12
123	Goraya (Addl.)S/S	220/132	PSTCL	100	AUG-12
124	Mohali-II (Addl.) S/S	220/66	PSTCL	100	AUG-12
125	Athipet S/S	230/110	TANTRANSCO	100	AUG-12
126	Kondapuram (1st Trf.)	220/132	APTRANSCO	100	SEP-12
127	Mundka (2nd ICT)	220/66	DTL	160	SEP-12
128	Achhalia (Aug.) S/S	220/132	GETCO	50	SEP-12
129	Bhat (Aug.)	220/66	GETCO	100	SEP-12
130	Dahej (Aug.)	220/66	GETCO	100	SEP-12
131	Haldarwa (Aug.)	220/132	GETCO	50	SEP-12
132	Mota (Aug.)	220/66	GETCO	50	SEP-12
133	Timbdi (Aug.)	220/66	GETCO	50	SEP-12



134	Baddi (Addl.) 1x100 MVA	220/66	HPPTCL	100	SEP-12
135	Raiwali S/S	220/66	HVPNL	200	SEP-12
136	Rampur Kamboan S/S (1st Trf.)	220/66	HVPNL	100	SEP-12
137	Rampur Kamboan S/S (2nd Trf.)	220/33	HVPNL	100	SEP-12
138	South Solapur S/S	220/132	MSETCL	200	SEP-12
139	Kotli Surat Malhi (Addl.) S/S	220/66	PSTCL	100	SEP-12
140	Mansa (Addl.) S/S	220/66	PSTCL	100	SEP-12
141	Karambayam	230/110	TANTRANSCO	200	SEP-12
142	Jhusi (2nd Trf.)	220/132	UPPTCL	160	SEP-12
143	Nagari	220/132	APTRANSCO	200	OCT-12
144	Bhilai (Addl.) S/S	220/132	CSPTCL	160	OCT-12
145	Jeur (Trf) S/S	220/132	MSETCL	100	OCT-12
146	Ikolaha (Addl.) S/S	220/66	PSTCL	100	OCT-12
147	Kotla Jangan (Addl) (2nd Trf.)	220/66	PSTCL	100	OCT-12
148	Sadiq (Aug.) (2n T/F) S/S	220/66	PSTCL	100	OCT-12
149	Hathras (Aug.) (160-100) S/S	220/132	UPPTCL	60	OCT-12
150	Laxmikantapur (Aug.)	220/132	WBSETCL	160	OCT-12
151	kharagpur( 2nd Trf.)	220/132	WBSETCL	160	OCT-12
152	Halbarga (2x100)	220/110	KPTCL	200	NOV-12
153	Akola (Aug.) S/S	220/132	MSETCL	50	NOV-12
154	Telco S/S	220/22	MSETCL	50	NOV-12
155	Wani (Aug.) S/S	220/33	MSETCL	25	NOV-12
156	Bundi S/S	220/132	RVPNL	100	NOV-12



157	Nadbai S/S	220/132	RVPNL	100	NOV-12
158	Sikrai (Upgradation )	220/132	RVPNL	100	NOV-12
159	Dehri (Aug.)	220/132	BSEB	100	DEC-12
160	Rohini (1st Trf.)	220/66	DTL	160	DEC-12
161	Amarkantak (Anoopur) (1x160)	220/132	MPPTCL	160	DEC-12
162	Kakrala S/S	220/66	PSTCL	100	DEC-12
163	Sultanpur Lodhi (Addl.) S/S	220/66	PSTCL	160	DEC-12
164	Udhoke S/S	220/66	PSTCL	100	DEC-12
165	Bommuru (Aug.)	220/132	APTRANSCO	60	JAN-13
166	Brandix (Addl. Trf)	220/132	APTRANSCO	100	JAN-13
167	Ghanapur (Aug)	220/132	APTRANSCO	60	JAN-13
168	Gudivada (Addl. Trf)	220/132	APTRANSCO	100	JAN-13
169	Kondamallepally (Addl. Trf)	220/132	APTRANSCO	100	JAN-13
170	Medchal (Aug)	220/132	APTRANSCO	60	JAN-13
171	Pendurthy (Aug)	220/132	APTRANSCO	60	JAN-13
172	Shadnagar (Addl. Trf)	220/132	APTRANSCO	100	JAN-13
173	Yeddumailaram (Aug)	220/132	APTRANSCO	60	JAN-13
174	Rohini (2nd Trf.)	220/66	DTL	160	JAN-13
175	Amreli S/S	220/66	GETCO	50	JAN-13
176	Gavasad S/S	220/66	GETCO	50	JAN-13
177	Keshod S/S	220/66	GETCO	50	JAN-13
178	Kim S/S	220/66	GETCO	50	JAN-13
179	Lunawada (2nd Trf.)	220/66	GETCO	100	JAN-13
180	Zagadia S/S	220/66	GETCO	50	JAN-13



181	Dadhi Bana S/S (1st Trf.)	220/132	HVPNL	100	JAN-13
182	Dadhi Bana S/S (2nd Trf.)	220/33	HVPNL	100	JAN-13
183	Rangala Rajpur (1st Trf)	220/66	HVPNL	100	JAN-13
184	Bidri S/S	220/33	MSETCL	25	JAN-13
185	Dasgaon S/S	220/33	MSETCL	50	JAN-13
186	Bassi Pathana S/S	220/66	PSTCL	100	JAN-13
187	Doraha (U/G) (1x100 MVA)	220/66	PSTCL	100	JAN-13
188	Gaunsgarh S/S	220/66	PSTCL	100	JAN-13
189	Himmatpura (Aug) S/S	220/66	PSTCL	100	JAN-13
190	Lalru (Aug) (2nd T/F)	220/66	PSTCL	100	JAN-13
191	Passiana S/S	220/66	PSTCL	100	JAN-13
192	Sarna (Aug.) S/S	220/66	PSTCL	100	JAN-13
193	Talwandi Bhai	220/66	PSTCL	100	JAN-13
194	Roorkee (Addl.) S/S	220/33	PTCUL	100	JAN-13
195	Gajner	220/132	RVPNL	100	JAN-13
196	Thatchankurichy (Aug.)	230/110	TANTRANSCO	50	JAN-13
197	Allahabad Cantt. (2nd) (Aug.) S/S	220/132	UPPTCL	60	JAN-13
198	Allahabad Cantt. (Aug.) S/S	220/132	UPPTCL	60	JAN-13
199	Atroli (Aug.) S/S	220/132	UPPTCL	60	JAN-13
200	Charla S/S	220/132	UPPTCL	160	JAN-13
201	Chibramau (Aug.) S/S	220/132	UPPTCL	60	JAN-13
202	Hardoi (Aug.) S/S	220/132	UPPTCL	60	JAN-13
203	Noida Sec-62 S/S	220/132	UPPTCL	160	JAN-13
204	Orai (Aug.) S/S	220/132	UPPTCL	60	JAN-13
205	Pratapgarh S/S	220/132	UPPTCL	200	JAN-13
206	R.C. Green (new) S/S	220/132	UPPTCL	160	JAN-13
207	R.C. Green S/S	220/132/33	UPPTCL	100	JAN-13
208	Reva Road Allahabad (Aug.) S/S	220/132	UPPTCL	60	JAN-13





209	Sikandara (Aug.) S/S	220/132	UPPTCL	60	JAN-13
210	Sohawal S/S	220/33	UPPTCL	100	JAN-13
211	Alephata (Addl) S/S	220/33	MSETCL	50	FEB-13
212	Anandnagar (Addl) S/S	220/22	MSETCL	50	FEB-13
213	Badnera (Add.)	220/132	MSETCL	50	FEB-13
214	Bhosari (New)	220/22	MSETCL	50	FEB-13
215	Matradevi (Addl.)	220/132	MSETCL	50	FEB-13
216	Nerul (Addl) S/S	220/33	MSETCL	50	FEB-13
217	Palsi (New) S/S	220/33	MSETCL	100	FEB-13
218	Butari (Addl.) S/S	220/33	PSTCL	100	FEB-13
219	Lalton Kalan (Addl.) S/S	220/33	PSTCL	160	FEB-13
220	Banda (Aug.)	220/132	UPPTCL	60	FEB-13
221	Muzaffarnagar (Aug.)	220/132	UPPTCL	60	FEB-13
222	Muzaffarpur TPS (Kanti) (Aug.)	220/132	BSEB	100	MAR-13
223	Sipara (Patna) (2x150)	220/132	BSEB	300	MAR-13
224	Bhachau S/S	220/66	GETCO	100	MAR-13
225	Bhatiya s/s	220/132	GETCO	100	MAR-13
226	Kapadwanj S/S	220/66	GETCO	50	MAR-13
227	Limbdi (Addl.) S/S	220/66	GETCO	50	MAR-13
228	Sadla	220/66	GETCO	100	MAR-13
229	Shapur (3rd Trf.)	220/66	GETCO	100	MAR-13
230	Kaul S/S (2nd Trf.)	220/132	HVPNL	100	MAR-13
231	Nawada (1x100)	220/33	HVPNL	100	MAR-13
232	Rangala Rajpur (2nd Trf)	220/33	HVPNL	100	MAR-13
233	Delina (Aug.)	220/132	JKPDD	160	MAR-13



234	Neelagunda S/S	220/66	KPTCL	200	MAR-13
235	Hamigarh (1x100)	220/132	RVPL	100	MAR-13
236	Karwad / Bhawad S/S	220/132	RVPL	100	MAR-13
237	Kasba (Aug.)	220/132	WBSETCL	160	MAR-13
<b>Total of State Sector</b>				<b>17840</b>	
<b>Toatl of 220 kV</b>				<b>19120</b>	
<b>Grand Total</b>				<b>63665</b>	



## Annexure-2.3a

STATUS OF CONSTRUCTION OF HIGH CAPACITY TRANSMISSION CORRIDORS (As on 30th September 2017)							
Sl No	Name of Transmission Lines/Substations	Ckts (S/C) & (D/C)	Voltage Level/ Voltage ratio	Total Length CKM/ Capacity in MVA	Target Date		Remark
					Schedule	Revised/ Anticipated	
1	2	3	4	5	10	11	12
<b>1</b>	<b>HCPTC-I</b>						
<b>I</b>	<b>Transmission System for Phase-I Generation projects in Orissa - Part-A</b>						
1	Angul Pooling Station - Jharsuguda Pooling Station line-I	S/C	765	274	MAY-14	Mar'15	Commissioned 03/15
2	Angul Pooling Station - Jharsuguda Pooling Station line-II	S/C	765	284	MAY-14	Jan'16	Commissioned 01/16
3	LILO of Rourkela - Raigarh at Jharsuguda Pooling Stn. Ckt-II	D/C	400		May' 14	Mar'13	Commissioned 05/13.
4	LILO of Meramundli -Jeypore at Angul Pooling Station	D/C	400	9	May' 14	Mar'13	Commissioned 12/13.
5	LILO of One Ckt of Talchar - Meramundali at Angul Pooling Station	D/C	400	34	May' 14	Mar'14	Commissioned 04/14.
6	Jharsuguda Pooling station (2x1500)		765/400	1500		Jan'16	Commissioned 01/16
7	Angul Pooling station		765/400	4x1500	Jun' 15	Jan'16	Commissioned 01/17
<b>II</b>	<b>Transmission System for Phase-I Generation projects in Orissa - Part-B</b>						
8	Dharamjaygarh - Jabalpur Pooling Station line	D/C	765	848	JUL-14	Oct-15	Commissioned 10/15.
9	Jharsuguda - Dharamjaygarh line	D/C	765	300	Jul' 14	JUL-14	Commissioned 07/14.
10	LILO of Ranchi - Sipat (Bilaspur) Pooling Station at Dharamjaygarh / near Korba.	D/C	765	10	Jul' 14	MAR-14	Commissioned 03/14.
11	Jabalpur Pooling Station - Jabalpur (High Capacity) line	D/C	400	31	Jul' 14	DEC-13	Commissioned 12/13.
12	Dharamjaygarh/Korba Substation		765/400	3000	Jul' 14	JUL-14	Commissioned 07/14.
13	Jabalpur Pooling station		765/400	1500	Jul' 14	Mar-14	commissioned 03/14
<b>III</b>	<b>Transmission System for Phase-I Generation projects in Orissa - Part-C</b>						
14	Jabalpur Pooling Station - Bina line (JTCL)	D/C	765	460	Jul' 14	DEC-13	Commissioned 12/13.
15	Bina - Gwalior line (3rd Ckt)	S/C	765	231	Jul' 14	MAY-14	Commissioned 05/14.
16	Gwalior - Jaipur line (Ckt 2)	S/C	765	311	Dec' 15	Aug'15	Commissioned 08/15.
17	Jaipur (RVPNL) - Bhiwani (IInd Ckt) line	S/C	765	272	Dec' 15	Aug'15	Commissioned 08/15.
<b>IV</b>	<b>Under Private Sector - Part-D (sterlite)</b>						
18	Bhopal - Bhopal (BDTCL)	D/C	400	17	Mar'14	JUL-14	Commissioned 07/14.



19	Jabalpur - Bhopal (BDTCL)	S/C	765	274	Mar'14	Jun'15	Commissioned 06/15.
20	Bhopal-Indore (BDTCL)	S/C	765	176	Mar'14	Oct'14	Commissioned 10/14
21	Bhopal Pooling station (BDTCL)		765/400	3000	Mar'14	JUL-14	Commissioned 07/14.
<b>2</b>	<b>HCPTC-II</b>						
<b>I</b>	<b>Transmission System for Phase-I Generation Projects in Jharkhand &amp; West Bengal : Part-A</b>						
1	Ranchi - Gaya (Quad) line via pooling station proposed near Essar/ Corporate generation projects	D/C	400	372	Nov'13	Jul'16	Commissioned 07/16
2	Ranchi (New) - Dharamjaygarh /Near Korba	S/C	765	341	SEP-14	Dec'15	Commissioned 12/15
3	400 kv Pooling Station (Jharkhand Pool) near Essar and Corporate generation projects (depending upon progress of Essar and Corporate IPPs). This will be a switching station without ICTs.		400		Nov'13	Jul'16	Commissioned 07/16
<b>II</b>	<b>Transmission System for Phase-I Generation Projects in Jharkhand &amp; West Bengal : Part-B</b>						
4	Balia - Varanasi	S/C	765	165	SEP-14	Mar'16	Commissioned 03/16
5	Gaya - Varanasi	S/C	765	273	SEP-14	Apr'16	Commissioned 04/16
6	Kanpur (new) - Kanpur (exit)	D/C	400	43	NOV-14	Jul'16	Commissioned 07/16
7	Kanpur - Jhatikara	S/C	765	466	NOV-14	Jul'16	Commissioned 07/16
8	Varanasi-Sarnath	D/C	400	214	Nov'14	Oct'16	Commissioned 10/16
9	LILO of Sasaram - Allahabad at Varanasi (Q)	D/C	400	24	NOV-14	Mar'16	Commissioned 03/16
10	Varanasi - Kanpur	D/C	765	652	NOV-14	Jul'16	Commissioned 07/16
11	Kanpur S/S		765/400	2x1500	Oct'14	Jul'16	Commissioned 07/16
12	Varanasi S/S		765/400	2x1500	Oct'14	Mar'16	Commissioned 03/16
<b>III</b>	<b>Common Strengthening Transmission System for Transfer of power from generation projects in Jharkhand to NR/WR under the Scope of Private Sector.</b>						
13	Dhramjaygarh - Jabalpur (JTCL)	D/C	765	758	Mar'14	Sept'15	Commissioned 09/15
<b>3</b>	<b>HCPTC-III</b>						
<b>I</b>	<b>Transmission System for transfer of power from generation projects in Sikkim to NR/WR part -A</b>						
1	LILO of Siliguri (Existing) - Purnea line (Q) at New Pooling Station at Kishanganj	D/C	400	16	MAY-13	Mar'16	Commissioned 03/16
2	LILO of Siliguri - Dalkhola line at New Pooling Station Kishanganj	D/C	220	36	MAY-13	Mar'16	Commissioned 03/16



3	New Substation at Kishanganj along with associated bays		400/220	2x500		Oct'16	Commissioned 10/16
<b>II</b>	<b>Transmission System for transfer of power from generation projects in Sikkim to NR/WR part -B</b>						
4	Kishanganj - Patna line (Quad)	D/C	400	692	NOV-13	Mar'16	Commissioned 03/16
5	LILO of Gangtok - Rangit at Rangpo	D/C	132	7	Nov' 13	Nov' 14	Commissioned 11/14
6	LILO of Teesta-III - Kishanganj 400 KV D/C (Q) at Rangpo (21 D/C+1.5 M/C)	MC+D/C	400	21	NOV-13	Mar'16	LILLO - IN portion completed & charged in Mar'16. LILLO - OUT was proposed for deferment due to delayed clearance / Generation. Now it is taken up again and NIT has been floated.
7	LILO of Teesta-V Siliguri line at Rangpo (1 D/C & 1.5 M/C)	D/C	400	15	NOV-13	Oct'14	Commissioned 10/14
8	Rangpo - New Melli line (Twin Moose) (20.5 D/C & 1.5 M/C)	MC+D/C	220	52	NOV-13	May'15	Commissioned 05/15
9	Rangpo (GIS)		400 / 220/132	16x105+3 x100	Nov' 13	Mar'17	Commissioned 07/14
10	New Melli GAS Insulated substation		220/132		Nov' 13	May'15	Commissioned 05/15
<b>4</b>	<b>HCPTC-IV</b>						
<b>I</b>	<b>Transmission System Associated with IPPs near Bilaspur complex in Chhattisgarh &amp; MP Projects"</b>						
1	Indore - Vadodara	S/C	765	320	Nov' 13	MAY-14	Commissioned 05/14
2	Vadodara - Pirana (Quad)	D/C	400	274	Nov' 13	MAR-14	Commissioned 03/14
3	Vadodra S/S		765/400	2x1500	Dec' 13	Jun'15	Commissioned 06/15
<b>5</b>	<b>HCPTC-V</b>						
<b>I</b>	<b>Common transmission sytem strengthening to be implemented by POWERGRID</b>						
1	Raigarh Pooling Station (Near Kotra ) - Raipur Pooling Station	D/C	765	480	May' 14	Jun' 14	Commissioned 6/14.
2	Aurangabad (PG) - Padghe (PG)	D/C	765	570	MAY-15	Dec'17	Commissioning matching with down stream Kudus (MSETCL) S/S.
3	Champa Pooling Station - Dharamjaygarh / Near Korba Switching Station line	S/C	765	62	MAY-14	MAY-14	Commissioned 05/14.
4	Champa Pooling Station - Kurukshetra (HVDC)	BIPOLE	±800	2574	DEC-15	Mar'17	Commissioned 03/17
5	Champa Pooling Station - Raipur Pooling Station line	D/C	765	298	MAY-14	MAY-14	Commissioned 05/14.
6	Kurukshetra - Jalandhar	D/C	400	531	DEC-15	DEC-15	Commissioned 12/15.



7	Padghe (PG) - Kudus line(Q)	D/C	400	32	Aug'14	Dec'17	Line completed in Feb'17. Commissioning matching with A'bad-Padghe line & readiness of Kudus S/S of MSETCL which are expected to complete by Dec'17.
8	Raigarh Pooling Station (Near Kotra) - Champa Pooling Station line	S/C	765	96	MAY-14	May 15	Commissioned 05/15..
9	Wardha - Aurangabad line	D/C	765	701	DEC-15	Jul'15	Commissioned 07/14
10	Raigarh Pooling Station (Near Kotra) - Raigarh line	D/C	765	98	May' 14	OCT-10	Commissioned 10/13.
11	Raipur Pooling Station - Wardha line-I	D/C	765	736	Dec' 15	OCT-14	Commissioned 11/14.
12	Raipur Pooling Station - Wardha Line -II	D/C	765	714	Dec' 15	Mar'17	Commissioned 03/17
13	Aurangabad (PG) - Boisor (Quad)	D/C	400	690	May' 15	Oct'17	Testing Under Progress.
14	Raipur Pooling Station - Raipur (PG) line	D/C	400	43		MAR-13	Commissioned 03/13
15	Raigarh Pooling Station (Near Kotra) - Raigarh Pooling Station ( Near Tammar) line	D/C	400	13		APR-13	Commissioned 04/13
16	Vadodra - Asoj line	D/C	400	24	May' 15	MAR-14	Commissioned 03/14
17	Raigarh Pooling Station (Near Tamnar)		765/400	1500	May' 14	OCT-13	Commissioned 10/13.
18	Champa Pooling Station		765/400	6x1500	May' 14	Dec'16	Commissioned 12/16
19	Raipur Pooling Station		765/400	1500		Mar'17	Commissioned 03/17
20	Padghe (PG)		765/400	2x1500		Dec'17	Work under progress.
21	Aurangabad (PG)		765/400	2x1500		JUL-14	Commissioned 7/14.
	<b>Strengthening in Northern Region</b>						
22	LILO of Abdullapur - Sonapat at Kurukshetra (Tripal)	D/C	400	30	DEC-15	Nov'15	Commissioned 11/15
23	Kurukshetra		400/220	2x500		Feb'17	Commissioned 03/17
<b>II</b>	<b>Common transmission sytem strengthening under tariff based competitive bidding</b>						
24	Aurangabad - Dhule (BDTCL)	S/C	765	192	Mar' 14	JUN-14	Commissioned 10/14.
25	Dhule - Vadodara (BDTCL)	S/C	765	263	Mar' 14	Feb'15	Commissioned 02/15.
26	Dhule (IPTC) - Dhule (MSETCL) (BDTCL)	D/C	400	35	Mar' 14	SEP-14	Commissioned 09/14.
27	Dhule S/S		765/400	2x1500	Mar' 14	SEP-14	Commissioned 09/14.
<b>6</b>	<b>HCPTC-VI</b>						
<b>I</b>	<b>Transmission System Associated with IPPs in Krishnapatnam Area, Andhra Pradesh</b>						
1	Kurnool - Raichur (IInd Ckt)	S/C	765	118		JUN-14	Commissioned 06/14.
2	Nellore Pooling Station - Kurnool	D/C	765	602	SEP-14	OCT-14	Commissioned 10/14.
3	LILO of Abdullapur - Sonapat at Kurukshetra (Tripal)	D/C	400	15		MAR-13	Commissioned 03/13.



4	Nellore Pooling Station (PG)		765/400	2x1500		OCT-14	Commissioned 10/14.
5	Associated 765 kV & 400 kV bays at Nellore Pooling station, Kurnool and Raichur stations		765			Jun' 14	Commissioned 06/14
<b>7</b>	<b>HCPTC-VII</b>						
<b>I</b>	<b>Transmission System Associated with IPPs in Tuticorin Area, Tamil Nadu</b>						
1	LILO of Tuticorin JV - Maduri at Coastal Energen TPS	D/C	400	9	Jan' 12	Sep' 13	Commissioned 09/13.
2	Salem (PS) - Madhugiri (NMTCL)	S/C	765	243	Sep'14	Dec'17	Severe ROW in Karnataka. Obstruction are being removed progressively with the help of Police protection.
3	Salem Pooling Station - Salem (Quad) line	D/C	400	120	Sep'14	Oct'16	Commissioned 10/16
4	Tuticorin Pooling Station - Salem Pooling Station	D/C	765	731	Sep'14	Nov'16	Commissioned 11/16
5	Extn. at 765 kV pooling station in Tuticorin (initially charged at 400 kV)		765/400			Nov'16	Commissioned 11/16
6	765 kV pooling station in Salem (initially charged at 400 kV)		765/400			Oct'16	Commissioned 10/16
<b>8</b>	<b>HCPTC-VIII</b>						
<b>I</b>	<b>Transmission System Associated with IPPs Projects in Srikakulam Area, Andhra Pradesh</b>						
1	Angul - Jharsauguda line	D/C	765	590	DEC-15	Mar'18	Severe ROW being faced near Angul end. Huge forest involvement (461.13 Ha.). Stage-I issued in Dec'16. Working permission issued from Apr'17 to Aug'17.
2	Jharsuguda - Dharamjaygarh line	D/C	765	300	DEC-15	Mar'18	Huge forest involvement (213 Ha.). Forest clearance (Stg.-I) for Chhattisgarh portion issued in Jul'17. Permission to work awaited.
3	Srikakulam Pooling Station - Angul line	D/C	765	552	JUN-15	Jan'17	Commissioned 01/17
4	Pooling station at Srikakulam		765/400	2x1500		Dec'17	765KV Bay commissioned in Jan'17 matching with associated line. ICT's ready. Commissioning matching with Gen. / down-stream line.
5	Substation at Angul		765/400	1x1500	Dec' 15	May' 15	Commissioned 05/15.



6	Associated 400 kV bays at Srikakulam & Angul substations		400			Jan'17	Commissioned 01/17
7	Associated 765 kV bays at Angul, Jharsuguda & Dharamjaigarh substations		765			Mar'18	Supply, civil works & erection under progress. Completion matching with line.
<b>9</b>	<b>HCPTC-IX</b>						
<b>I</b>	<b>Transmission System Associated with IPPs Projects in Southern Region, for transfer of power to other regions</b>						
1	Sholapur - Pune	S/C	765	268	Oct' 14	Feb'15	Commissioned 02/15.
2	Jabalpur Pooling Station - Orai 765 kV S/C line	D/C	765	721	Apr'18	Mar'18	Line completed in 08/17 but associated substation would be completed by Mar'18.
3	Satna - Gwalier 765 kV D/C line	S/C	765	337	Nov' 12	Feb'14	Commissioned 02/14
4	Orai - Orai (UPPCL) (Quad) line 400 kV	D/C	400	84	Apr'18	Mar'18	Completion matching with Orai Substation.
5	Orai -Aligarh 765 kV D/C line	D/C	765	664	Apr'18	Apr'18	Severe ROW problem near urban area.
6	Kanpur - Jhatikara 765 kV S/C line	S/C	765	466	Nov' 14	Jul'16	Commissioned 07/16
7	LILO of one ckt. of Satna-Gwalior at Orai	D/C	765	73	Apr'18	Mar'18	Testing under progress. Commissioning matching with S/stn.
8	LILO of Agra- Meerut 765 kV S/C line at Aligarh	D/C	765	22	Apr'18	Apr'18	One location under ROW.
9	LILO of Kanpur - Jhatikara 765 kV S/C line at Aligarh	D/C	765	22	Apr'18	Apr'18	ROW clearance to be expedited at 02 locs.
10	Orai S/S		765/400	2X1000	Apr'18	Mar'18	Work under progress.
11	Aligarh Switching stn. GIS		765/400		Apr'18	Apr'18	Work under progress.
<b>10</b>	<b>HCPTC-X</b>						
<b>I</b>	<b>Transmission System Associated with IPPs Projects in Vemagiri Area, Andhra Pradesh</b>						
1	LILO of Gazuwaka - Vijayawada at Vemagiri	D/C	400	38	Jun' 14	Jun' 16	Line cancelled
2	Khammam - Hyderabad line -I	D/C	765	410			Line cancelled by CERC.
3	Hyderabad - Hyderabad (existing) (Quad) line	D/C					Line cancelled by CERC.
4	Khammam S/S - Khammam (existing) (Quad) line 400 kV	D/C	400				Line cancelled by CERC.
5	Hyderabad - Wardha line 765 kV	D/C	765	1072	May' 18	Jul'17	Commissioned 07/17
6	Vemagiri Pooling Station - Khammam	2xD/C	765	455			Line cancelled by CERC.
7	Wardha - Jabalpur Pooling station	D/C					Scheme under review in view of CERC direction.





8	GIS Pooling station at Vemagiri		765/400	2X1500	Jun' 14		Being covered under another scheme.
<b>11</b>	<b>HCPTC-XI</b>						
<b>I</b>	<b>Transmission System Associated with IPPs Projects in Nagapattinam / Cuddalore Area, Tamil Nadu</b>						
1	LILO of Neyveli - Trichy at Nagapattinam Pooling station	S/C	400	46	OCT-14	JUN-14	Commissioned 06/14.
2	Narendra (New, Kudgi) - Kolhapur (new)	D/C	765	374	APR-15	Nov'15	Commissioned 12/15
3	LILO of both ckt of Kolhapur - Mapusa at Kolhapur (new)	D/C	400	90	APR-15	Nov'15	Commissioned 11/14.
4	Salem - Madhugiri (NMTCL)	S/C	765	219	Dec'15	Mar'18	Severe ROW problem being faced in Karnataka. 02 nos. locs. in wildlife to be cleared.
5	Narendra (Existing) - Narendra (New)	D/C	400	354	APR-15	Dec'15	Commissioned 12/15
6	Nagapathanam PS - Salem	D/C	765	406	DEC-15	Oct'16	Commissioned 10/16
7	Srikakulam PS - Vemagiri PS	D/C	765	668	Aug'16	Sep'16	Commissioned 01/17
8	Khammam - Nagarjunasagar	D/C	400	290	Dec'15	Dec'15	Commissioned 12/15
9	Narendra (New) - Madhugiri	D/C	765	758	Dec'15	Sep'16	Commissioned 09/16
10	Kolhapur - Padghe	D/C	765				Line dropped.
11	GIS Pooling station at Nagapattinam		765/400	4x1500		Mar' 15	Commissioned 03/15.
12	GIS Pooling station at Kolhapur		765/400	4x1500	Apr' 15	Nov'15	Commissioned 11/15.
13	GIS Pooling station at Narendra		765/400	2x1500	Apr' 15	Nov'15	Commissioned 11/15.
14	Substations at Salem		765/400	2x1500	Dec' 14	Oct'16	Commissioned 10/16



### Annexure-2.3b



**Annexure-2.4****Transmission Projects awarded through tariff based competitive bidding route(TBCB)  
(as on August'2017)**

<b>S.No</b>	<b>Transmission project</b>	<b>Special Purpose Vehicle (SPV)/ Bid Process Coordinator (BPC)</b>	<b>Parent Company/ Progress Status</b>
1.	Transmission system associated with IPPs of Nagapattinam / Cuddalore Area- Package A	Powergrid Nagapattinam Transmission Ltd. / PFC	PGCIL / Under Construction
2.	Transmission System associated with IPPs of Vemagiri Area-Package A	Powergrid Vemagiri Transmission Ltd / REC	PGCIL / Cancelled by CERC
3.	Transmission system for Strengthening in SR for Import of Power from ER.	Powergrid Vizag Transmission Ltd / REC	PGCIL / Commissioned
4.	ATS of Unchahar TPS	Powergrid Unchahar Transmission Ltd / REC	PGCIL / Commissioned
5.	NR System strengthening Scheme-NRSS-XXXI(Part-A)	Powergrid Kala Amb Transmission Ltd / REC	PGCIL / Commissioned
6.	Transmission System associated with Gadawara STPS (2x800 MW) of NTPC (Part-A)	Powergrid Warora Transmission Ltd / REC	PGCIL / Under Construction
7.	Transmission System associated with Gadawara STPS (2x800 MW) of NTPC (Part-B)	Powergrid Parli Transmission Ltd / REC	PGCIL / Under Construction
8.	Transmission System Strengthening associated with Vindhyaachal- V	Powergrid Jabalpur Transmission Ltd / REC	PGCIL / Under Construction
9.	Strengthening of Transmission system beyond Vemagiri	Powergrid Southern Interconnector Transmission System Ltd. / REC	PGCIL / Under Construction
10.	765 kV System Strengthening Scheme in Eastern Region. ERSS-XVIII	Medinipur-Jeerat Transmission Limited / PFC	PGCIL / Yet to Start.
11.	System strengthening for WR	Bhopal Dhule Transmission Co. Ltd. / PFC	Sterilite Grid / Commissioned
12.	System strengthening common for WR and NR	Jabalpur Transmission Company Ltd. / PFC	Sterilite Grid / Commissioned



S.No	Transmission project	Special Purpose Vehicle (SPV)/ Bid Process Coordinator (BPC)	Parent Company/ Progress Status
13.	Scheme for enabling import of NER/ER surplus by NR	East-North Interconnection Ltd / PFC	Sterilite Technology / Commissioned
14.	Part ATS for RAPP U-7&8 in Rajasthan	RAPP Transmission Company Ltd. / PFC	Sterilite Grid / Commissioned
15.	Eastern Region System Strengthening Scheme-VII	Purulia Kharagpur Transmission Co. Ltd. / PFC	Sterilite Grid / Commissioned
16.	Northern Regional System Strengthening Scheme, NRSS-XXIX	NRSS XXIX Transmission Ltd. / REC	Sterilite Grid / Under Construction
17.	Connectivity lines for Maheshwaram 765/400 kV S/S	Maheshwaram Trans. Ltd. / REC	Sterilite Grid / Under Construction
18.	Common Transmission system for phase-II generation projects in Orissa and immediate evacuation system for OPGC project (Orissa)	Orissa Generation Phase-II Transmission Ltd. / PFC	Sterilite Grid / Under Construction
19.	Creation of new 400 kV GIS substations in Gurgaon area and Palwal as a part of ISTS	Gurgaon Palwal Transmission Ltd. / PFC	Sterilite Grid / Under Construction
20.	Connectivity system for Khargone TPP (2x660MW)	Khargone Transmission Limited / REC	Sterilite Grid / Under Construction
21.	NER System Strengthening Scheme II	NER II Transmission Limited / REC	Sterilite Grid / Under Construction
22.	Eastern Region System Strengthening Scheme-VI	Darbhanga Motihari Transmission Co. Ltd. / PFC	Essel Infra / Commissioned
23.	Northern Region System Strengthening Scheme, NRSS-XXXI (Part-B)	NRSS XXXI(B) Transmission Ltd. / REC	Essel infra / Commissioned
24.	Additional inter regional AC link for import into southern region i.e Warora-Warangal and Chilakaluripeta – Hyderabad – Kurnool 765 kV link	Warora Kurnool Transmission Ltd. / PFC	Essel Infra / Under construction



S.No	Transmission project	Special Purpose Vehicle (SPV)/ Bid Process Coordinator (BPC)	Parent Company/ Progress Status
25.	System strengthening in northern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai(RVPNL)	NRSS XXXVI transmission Ltd. / REC	Essel Infra / Under construction
26.	Additional system strengthening for Sipat STPS	Sipat Transmission Ltd. / PFC	Adani Power Ltd / Under Construction
27.	Additional system strengthening for Chhattisgarh (B)	Raipur Rajnandgaon Warora Transmission Ltd. / PFC	Adani Power Ltd / Under Construction
28.	System strengthening for IPPs in Chhattisgarh and other generation projects in western region	Chhattisgarh WR Transmission Ltd. / PFC	Adani Power Ltd / Under Construction
29.	Immediate evacuation for North Karanpura (3x660MW) generation project of NTPC(ERSS XIX)	North Karanpura Transco Ltd / REC	Adani Power Ltd / Under Construction
30.	Transmission System required for evacuation of power from Kudgi TPS (3x800 MW in Phase-I) of NTPC Ltd.	Kudgi Transmission Company Ltd. / REC	L&T / Commissioned
31.	Transmission System for Patran 400kV S/S	Patran Transmission Ltd. / PFC	Techno Electric / Commissioned
32.	Transmission System Associated with Krishnapattnam UMPP- Synchronous interconnection between SR and WR (Part-B)	Raichur Sholapur Transmission Company Ltd. / REC	RSTCL / Commissioned
33.	Transmission system strengthening in Indian system for transfer of power from new HEP's in Butan	Alipurduar Transmission Ltd. / REC	Kalpataru / Under Construction
34.	North Eastern Region Strengthening Scheme (NERSS-VI)	Kohima-Mairani Transmission Limited / PFC	Kalpataru / Under Construction



<b>S.No</b>	<b>Transmission project</b>	<b>Special Purpose Vehicle (SPV)/ Bid Process Coordinator (BPC)</b>	<b>Parent Company/ Progress Status</b>
<b>35.</b>	Transmission System associated with DGEN TPS (1200 MW) of Torrent Power Ltd.	DGEN Transmission Company Ltd. / PFC	Instalaciones Inabensa S A Spain / TSP requested for closing
<b>36.</b>	System Strengthening in NR for import of power from North Karanpura and other projects outside NR and System Strengthening in WR for import of power from North Karanpura and other projects outside Western Region and also for projects within Western Region.	North Karanpura Transmission Co. Ltd. / REC	Reliance Power Transmission Co. Ltd / Under litigation
<b>37.</b>	Augmentation of Talcher-II transmission System	Talcher Transmission Co. Ltd. / REC	Reliance Power Transmission Co. Ltd / Under litigation

**Annexure-2.5**

No.3/7/2015-Trans  
Government of India  
Ministry of Power  
Shram Shakti Bhawan  
Rafi Marg, New Delhi – 110001

Dated, 15<sup>th</sup> October, 2015

To

1. Chief Secretaries/Administrators of all the States/UTs  
(As per list attached)
2. Chairperson, CEA, New Delhi with the request to disseminate the above guidelines to all the stakeholders.
3. CMD, PGCIL, Gurgaon.
4. CEO, POSOCO, New Delhi.
5. Secretary, CERC, New Delhi.
6. CMD of State Power Utilities/SEBs

Subject: Guidelines for payment of compensation towards damages in regard to Right of Way for transmission lines.

During the Power Ministers Conference held on April 9-10, 2015 at Guwahati with States/UTs, it has, *inter alia*, been decided to constitute a Committee under the chairmanship of Special Secretary, Ministry of Power to analyse the issues related to Right of Way for laying of transmission lines in the country and to suggest a uniform methodology for payment of compensation on this count. Subsequently, this Ministry had constituted a Committee with representatives from various State Governments and others. The Committee held several meetings to obtain the views of State Governments on the issue and submitted its Report along with the recommendations (copy of the Report is at **Annex-1**).

2. The Recommendations made by the Committee are hereby formulated in the form of following guidelines for determining the compensation towards “damages” as stipulated in section 67 and 68 of the Electricity Act, 2003 read with Section 10 and 16 of Indian Telegraph Act, 1885 which will be in addition to the compensation towards normal crop and tree damages. This amount will be payable only for transmission lines supported by a tower base of 66 KV and above, and not for sub-transmission and distribution lines below 66 KV:-


- (i) Compensation @ 85% of land value as determined by District Magistrate or any other authority based on Circle rate/ Guideline value/ Stamp Act rates for tower base area (between four legs) impacted severely due to installation of tower/pylon structure;

— / —



- (ii) Compensation towards diminution of land value in the width of Right of Way (RoW) Corridor due to laying of transmission line and imposing certain restriction would be decided by the States as per categorization/type of land in different places of States, subject to a maximum of 15% of land value as determined based on Circle rate/ Guideline value/ Stamp Act rates;
  - (iii) In areas where land owner/owners have been offered/ accepted alternate mode of compensation by concerned corporation/ Municipality under Transfer Development Rights (TDR) policy of State, the licensee /Utility shall deposit compensation amount as per (i) & (ii) above with the concerned Corporation/ Municipality/ Local Body or the State Government.
  - (iv) For this purpose, the width of RoW corridor shall not be more than that prescribed in the table at **Annex-2** and shall not be less than the width directly below the conductors.
3. Necessary action may kindly be taken accordingly. These guidelines may not only facilitate an early resolution of RoW issues and also facilitate completion of the vital transmission lines through active support of State/ UT administration.
  4. All the States/UTs etc. are requested to take suitable decision regarding adoption of the guidelines considering that acquisition of land is a State subject.

Yours faithfully,

  
(Jyoti Arora)  
Joint Secretary (Trans.)  
Tele: 011-2371 0389

Copy, along with enclosure, forwarded to the following:

1. Secretaries of Government of India (Infrastructure Ministries/Deptt including MoEF - As per attached list)
2. Prime Minister's Office (Kind Attn: Shri Nripendra Mishra, Principal Secretary to PM).
3. Technical Director, NIC, Ministry of Power with the request to host on the website of Ministry of Power.

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Copy to PS to Hon'ble MoSP (IC) / Secretary (Power) / AS (BNS) / AS (BPP) / All Joint Secretaries/EA/ All Directors/DSs, Ministry of Power.

- 2 -



Annex - 1

## Report of the Committee for payment of compensation in regard to Right of Way (RoW) for transmission lines

### 1.0 Background:

1.1 The Transmission Projects in the country are implemented by the licensee in accordance with the provisions of the Electricity Act, 2003. The compensation towards "damages" during implementation of such projects is governed by Section 67 & 68 of the Electricity Act read with Section 10 & 16 of the Indian Telegraph Act, 1885. The present stipulations provide for compensation towards all damages without acquisition of land which are assessed/ reviewed by the Revenue Authorities. However, there is no clear definition of the term "damages", nor are there any guidelines in this regard.

1.2 For laying electricity transmission lines, licensee erects towers at intervals of about 400 m. and conductors are strung on these towers maintaining a safe height depending on the voltage and other geographical parameters. Thus, typical transmission lines have following two kinds of impact:

- (i) Tower base area which is more or less completely lost or loses its productivity due to severe restriction an access;
- (ii) Corridor of land underneath strung conductor between two towers may be adversely affected by imposition of restriction on its usage.

1.3 The maximum width of RoW corridor is calculated on the basis of tower design, span, and wind speed, maximum sag of conductor and its swing plus other requirement of electric safety. The requirement of ROW for different voltage types under standard conditions is as follows:

#### ROW width for different voltage line\*

Transmission Voltage	Width of Right of Way (in Meters)
66 kV	18
110 kV	22
132 kV	27
220 kV	35
400 kV S/C	46
400 kV D/C	46
+/-500 kV HVDC	52
765 kV S/C (with delta configuration)	64
765 kV D/C	67
+/-800 kV HVDC	69
1200 kV	89

\* Width of Right of Way is as per the MoEF guidelines dated 5.5.2014 (Annex-A).

1.4 The Telegraph Act provides for compensation towards damages (without acquisition) while placing the tower and stringing the conductor. The local authorities/ District Magistrates have been provided Power under Section 16 (1) of the

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Telegraphic Act for adjudication and fixing the compensation. The provisions of the Electricity Act and Telegraph Act in respect of compensation are as follows:

**A. The Electricity Act, 2003, Part-VIII, Section 67 & 68**

**Section 67 (3 & 4):**

- (3) A licensee shall, in exercise of any of the powers conferred by or under this section and the rules made thereunder, cause as little damage, detriment and inconvenience as may be, **and shall make full compensation for any damage, detriment or inconvenience caused by him or by any one employed by him.**
- (4) Where any difference or dispute [including amount of compensation under sub-section (3)] arises under this section, the matter shall be determined by the Appropriate Commission.

**Section 68 (5 & 6):**

- (5) Where any tree standing or lying near an overhead line or where any structure or other object which has been placed or has fallen near an overhead line subsequent to the placing of such line, interrupts or interferes with, or is likely to interrupt or interfere with, the conveyance or transmission of electricity or to interrupt or interfere with, the conveyance or transmission of electricity or the accessibility of any works, an Executive Magistrate or authority specified by the Appropriate Government may, on the application of the licensee, cause the tree, structure or object to be removed or otherwise dealt with as he or it thinks fit.
- (6) When disposing of an application under sub-section (5), an Executive Magistrate or authority specified under that sub-section shall, in the case of any tree in existence before the placing of the overhead line, **award to the person interested in the tree such compensation as he thinks reasonable, and such person may recover the same from the licensee.**

*Explanation. - For purposes of this section, the expression tree shall be deemed to include any shrub, hedge, jungle growth or other plant."*

**B. The Indian Telegraph Act, 1885, Part-III, Section 10 ("C"):**

**"Section 10 – The telegraph authority may, from time to time, place and maintain a telegraph line under, over, along, or across, and posts in or upon any immovable property, Provided that –**

- a) the telegraph authority shall not exercise the powers conferred by this section except for the purposes of a telegraph established or maintained by the [Central Government], or to be so established or maintained;
- b) **the [Central Government] shall not acquire any right other than that of user only in the property under, over, along, across in or upon which the telegraph authority places any telegraph line or post; and**
- c) *except as hereinafter provided, the telegraph authority shall not exercise those powers in respect of any property vested in or under the control or management of any local authority, without the permission of that authority; and*
- d) **in the exercise of the powers conferred by this section, the telegraph authority shall do as little damage as possible, and, when it has exercised those powers in respect of any property other than that referred to in clause (c), shall pay full compensation to all persons interested for any damage sustained by them by reason of the exercise of those powers."**

1.5 As the "damages" have not been defined in the said Acts, licensees, in past, used to pay compensation for the damages caused to crops/ trees and structures. However, the land owners/farmers are now demanding the cost of land for tower base as well as cost diminution of land value in the corridor area due to laying of transmission

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line on their land. The present provisions of the Act/ Rules do not provide for any set procedure for calculation of such compensation. In the absence of clarity and notified procedures, the provisions of existing Acts are being differently interpreted by concerned DC/ Revenue Authorities that are also at variance with each other even among neighboring districts which is resulting in the resistance by the farmers causing unwarranted delay in the project implementation. Presently many lines in the States of Maharashtra, Western U.P., Karnataka, Kerala, Andhra, Jharkhand etc. are held up due to resistance by land owners demanding enhanced compensation.

## **2.0 Constitution of the Committee:**

2.1 The matter was deliberated during the Power Ministers' Conference on 9-10 April 2015 at Guwahati and a Committee under the chairmanship of Special Secretary, Ministry of Power was constituted vide order No. 3/7/2015-Trans dated 15<sup>th</sup> April 2015 to analyse the issues relating to Right of Way for laying transmission lines in the country and to suggest a uniform methodology for payment of compensation on this account. The composition of the Committee is given below:

- i. Shri R. N. Choubey, Special Secretary, Ministry of Power – Chairman
- ii. Chairperson, Central Electricity Authority
- iii. Principal Secretary/Secretary (Energy), Madhya Pradesh
- iv. Principal Secretary/Secretary (Energy), U.P.
- v. Principal Secretary/Secretary (Energy), Maharashtra,
- vi. Principal Secretary/Secretary (Energy), Karnataka,
- vii. Principal Secretary/Secretary (Energy), Kerala,
- viii. Jt. Secretary (Trans.), Ministry of Power
- ix. CMD/Dir(Projects), POWERGRID
- x. Shri K. K. Arya, CE (SP&PA), CEA – Convener & Member Secretary.

The notification of the Committee is at **Annex-I**.

## **3. Proceedings of the Committee:**

3.1 The first meeting of the Committee was held on 20.04.2015. During the meeting Powergrid and States mentioned that the difficulties were being faced in construction of transmission lines in more or less all the states due to severe resistance being posed by the land owners/ farmers with the demand of higher compensation including demand for compensation for the diminution value of the land below towers and under

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the line corridor. Powergrid also informed about the opinion of Attorney General of India taken by them, which states that the land underneath the legs of the tower is permanently lost by the owner and that the land under the corridor can be conveniently used but with certain restrictions and compensation for such diminution in land value for the line corridor is also payable to land owners. All the states were also of the view that compensation against the land diminution should be paid to the land owners. Most of the participants suggested that a uniform policy should be in place at the central level in terms of fixed percentages of market value of the land under transmission towers and under corridor, however, some of the states were of the view that this should be left to the concerned state to formulate the policy.

3.2 During the meeting, two views were emerged as under;

- (i) 100 % compensation for land should be paid for tower footing and 10% for corridor under the line.
- (ii) Policy should not be changed as state authorities are solving the compensation issues and it will also affect the financial viability of transmission projects.

The minutes of the meeting are at **Annex-II**.

3.3 The second meeting was held on 30.04.2015. Director (Projects), POWERGRID presented a detailed presentation including Legal & Regulatory framework about the compensation, policies of various States as well as the brief on the order of various Courts on compensation issues and various other order of different DM/DC regarding compensation and interpretation of present provisions. Copy of the presentation is at **Annex-III**. The summary of AG's opinion on legal position and coverage/inclusions of various aspects while deciding compensation including land value diminution was also informed by POWERGRID.

3.4 POWERGRID proposal regarding full compensation for tower base and at least 10% for RoW Corridor was also discussed in detail. The private entities M/s. Sterlite and Essel Infra also emphasized that there should be a standard norms for calculating compensation for transmission line and it should also be revised, reviewed periodically for its regular updation keeping in mind the market rate. M/s Sterlite also suggested that instead of land cost, corridor compensation per km may be fixed based on voltage of



line. Chairperson, CEA informed that possibility of reduction in RoW width is minimal as it has already been fixed based on the required Electricity Safety norms.

3.5 The Committee opined that payment of full value of land cost, tower base seems justified due to severe restriction put in by placing of tower which heavily impact the productivity/use of land area falling below tower base. Principal Secretary (Power), U.P however expressed his reservation on 100% cost without acquisition may be a difficult proposition due to ongoing complication regarding compensation under new Land Acquisition Act. Principal Secretary (Power), U.P and Principal Secretary (Power), M.P expressed their apprehension about the proposal of RoW Corridor payment as in their view such payment may also hamper the implementation of distribution lines and may also put additional financial burden on distribution company. Moreover, they were also of the opinion that we may not be able to resolve compensation issue by paying 10% as in all probabilities the farmers/land owners will demand more as has already been stipulated in the different State policies and DCs orders.

3.6 Due to sensitivity of the proposal and its implementation by the different State Governments, it was decided that this issue may also be discussed during the forthcoming Power Secretaries meetings for wider consultation and acceptance. Minutes of the meeting are at **Annex-IV**.

3.7 The Committee further consulted many States to obtain their views on the issue during the Review, Planning and Monitoring (RPM) meeting held on 11.5.2015 at Delhi, which was attended by Principle Secretaries/ Secretaries (Energy) of various States. The issues related to compensation and deliberations held during last 2 meetings were informed to the participants and they were asked to give their opinion on whether Committee should recommend a minimum uniform standard compensation norm for transmission line RoW for whole country or not. The different States present in the meeting suggested following:

- i. **West Bengal:** The state was not very keen on providing compensation for ROW corridor however they suggested for tower base 50 % of the land cost due to restriction and 20 % for corridor. However it should be left to state for final decision.



- ii. **Jammu & Kashmir:** It informed that because of the special provision in the state they were already acquiring tower base land by paying full compensation as per the land acquisition norm and accordingly state be granted power on such issue.
- iii. **Madhya Pradesh:** It also suggested that such decision be left to state government to decide.
- iv. **Uttar Pradesh:** The state was ready to pay the compensation as decided by the district authority and hence suggested there should be a mechanism so that such compensation be pass through as project cost.
- v. **Kerala:** Kerala was in favour of uniform compensation norms. It also suggested that beyond such uniform rate, it should be left to state who would also bear the cost if additional compensation is paid.
- vi. **Bihar:** The State was also in favor of compensation for tower base and corridor. However, it suggested that decision on deciding percentage be left on state for finalization.
- vii. **Karnataka:** It was also in favor of such compensation, however it also suggested that the finalization of percentage cost may be left at the discretion of the state.
- viii. **Andhra Pradesh:** The State was of the view that compensation for 100 % land value for tower base be paid to the landowner but no compensation for corridor should be given. It also suggested that such compensation should not be made applicable to line below 33 KV.
- ix. **Jharkhand:** The State was also in favor of uniform standard rate at generic level but suggested that state must be authorized for finalizing the quantum of such compensation.
- x. **Odisha:** The State was also in favor of uniform standard rate. However, it suggested that district authority must be authorized for finalizing such compensation.
- xi. **Uttarakhand:** It also wanted a uniform rate for such compensation considering revenue rate as basis and suggested 80% land value for tower base but no compensation for corridor as agricultural practices take place without any hindrance. However, they suggested that 5% cost of land for corridor for lines below 33 KV be included as these lines put severe restriction on agricultural practices.
- xii. **Meghalaya:** it suggested that they will come back after consulting other stakeholders and senior officials.
- xiii. **Gujarat:** it favors that certain minimum standard should be defined and state be given power to decide its detailing and these should not be any compensation for corridor. Such compensation should not be applicable for distribution line.

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- xiv. **Punjab:** The State was in agreement for compensation towards tower base and line corridor and wanted that certain standard uniform norms be made for such compensation.
- xv. **Nagaland:** It informed that they will come back later on after consulting all concerned.
- xvi. **Maharashtra:** It also favors that it should be left to the discretion of the state and such compensation be made part of project cost.
- xvii. **Telangana:** It stated that they are in favor of 85% land value for tower base but no compensation for corridor.

3.8 The views of various states have been classified in four categories and are indicated below:

Category	Name of States
<b>Category-I: States agreeing for payment of compensation for tower base and part compensation for RoW corridor</b>	Odisha(#), Maharashtra(#), Uttarakhand, Punjab West Bengal, Bihar, Karnataka, Kerala, Jharkhand,
<b>Category-II: States agreeing for payment of compensation for tower base and no compensation for RoW corridor</b>	Telangana, Andhra Pradesh
<b>Category-III: States suggesting that decision should be left with State Govt to decide</b>	Madhya Pradesh, Gujarat, Uttar Pradesh.
<b>Category-IV: States to inform later</b>	Meghalaya, Nagaland

(#) States agreed in-principle but want final decision to be left on them.

3.9 The third meeting of the Committee was held on 1<sup>st</sup> June 2015 and the issue & opinions of various states were deliberated in detail. Based on detailed deliberations, AG's Opinion and views of the states on the issue of RoW compensation and its modalities the committee finalized its recommendations.

#### 4.0 Recommendations:

The GoI may issue following guidelines for determining the compensation payable towards "damages" as stipulated in Indian Telegraph Act which will be in addition to the compensation towards normal crop and tree damages. This amount will be payable only

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for transmission Lines of 66 kV and above, and not for sub-transmission and distribution lines below 66 kV:

- i. **Compensation @ 85% of land value as determined by District Magistrate or any other authority based on Circle rate/ Guideline value/ Stamp Act rates for tower base area (between four legs) impacted severely due to installation of tower/pylon structure;**
- ii. **Compensation towards diminution of land value in the width of RoW Corridor due to laying of transmission line and imposing certain restriction would be decided by the States as per categorization/type of land in different places of States, subject to a maximum of 15% of land value as determined based on Circle rate/ Guideline value/ Stamp Act rates;**
- iii. **In areas where land owner/owners have been offered/accepted alternate mode of compensation by concerned corporation/ Municipality under Transfer Development Rights (TDR) policy of State, the licensee /Utility shall deposit compensation amount as per (i) & (ii) above with the concerned Corporation/ Municipality/ Local Body or the State Government.**
- iv. **For this purpose, the width of RoW corridor shall not be more than that prescribed in para 1.3 above, and shall not be less than the width directly below the conductors.**

**IN WITNESS WHEREOF**, the undersigned being duly authorized thereto have signed this Report of the Committee for payment of compensation in regard to Right of Way (RoW) for transmission lines.

(R.N.Choubey)  
Chairman of the Committee  
Former Special Secretary,  
Ministry of Power.

(Jyoti Arora)  
Member of the Committee  
Joint Secretary (Trans.)  
Ministry of Power.

(Major Singh)  
Member of the Committee  
Chairperson, Central Electricity  
Authority.

(I.C.P. Keshari)  
Member of the Committee  
Principal Secretary (Energy)  
Government of Madya  
Pradesh

(Sanjay Agarwal)  
Member of the Committee  
Principal Secretary (Energy)  
Government of Uttar  
Pradesh.

(Mukesh Khullar)  
Member of the Committee  
Principal Secretary (Energy)  
Government of Maharashtra.

(R. Ravi Kumar)  
Member of the Committee  
Secretary (Energy)  
Government of Karnataka.

(Shivasankar)  
Member of the Committee  
Secretary (Power)  
Government of Kerala.

(J.S. Jha)  
Member of the Committee  
Director (Projects)  
Power Grid Corporation of India Limited.

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## Annexure-2.6 &amp; 2.7

**Details of Centrally funded schemes (a) NER System improvement project (b) Comprehensive T&D scheme in Arunachal Pradesh & Sikkim (c) 220 kV connectivity of Ladakh region with Northern grid.**

## **North-Eastern Region Power System Improvement Project (NERPSIP)**

### **Background**

Presently, all the six NER States are connected to transmission network at 220 kV, 132 KV and below. The 33 kV system is the backbone of power distribution system in the six NER States. In order to reduce the gap between the requirement and availability of the intra-state transmission and distribution system, it is necessary to provide 132 KV / 220 KV connectivity to all the six NER States for proper voltage management and lower distribution losses. Similarly, the distribution system in all six NER States which mainly relies on 33 KV network would be strengthened substantially. As the Intra-State Transmission and Distribution systems in the North-Eastern States have remained very weak, the Central Electricity Authority (CEA) has proposed a comprehensive scheme for the North East Region (NER) in consultation with the POWERGRID (PGCIL) and respective state power utility. Implementation of this project will create a reliable State power grid and improve its connectivity to the upcoming load centres, and thus extend the benefits of the grid connected power to all the consumers. The project would also provide the required grid connectivity to such villages and towns of the States, where development of distribution system at the downstream level has been taking place under Gol sponsored RGGVY/ APDRP/ R-APDRP schemes.

### **General Details**

Date of Govt. approval	: Nov, 2014	
Implementing Agency	: PGCIL,	
Estimated Cost (Rs. crs)	: 5111	
Funding	: 50:50 (Govt. of India: World Bank)	
Phasing of expenditure	: Year 2014-15	200.00 Cr.
	Year 2015-16	749.80 Cr.
	Year 2016-17	1268.04 Cr.
	Year 2017-18	1562.78 Cr.
	Year 2018-19	998.34 Cr.
	Year 2019-20	332.37 Cr.
	<b>Total</b>	<b>5111.33 Cr.</b>
Completion schedule	: December, 2018 (48 months from date of release of 1 <sup>st</sup> instalment)	



## Summary

Particulars	State					
	Assam	Meghalaya	Manipur	Mizoram	Nagaland	Tripura
Total no. of Transmission Projects (Line & S/S)	34	09	19	07	17	27
Transmission Projects awarded	22	09	0	0	0	16
Transmission Projects yet to be awarded	12	00	19	07	17	11
Transmission Projects under construction	20	08	0	0	0	16
Transmission Projects whose construction is yet to start	02	01	0	0	0	0

## Scope of Transmission Project

### Assam

#### Transmission line

1. Rangia – Amingaon 220 kV D/C line
2. Tinsukia – Behiating (new Dibrugarh) 220 kV D/C line
3. Kahilipara – Guwahati Medical college 132 kV D/C line (including 2 km cable)
4. Rupai – Chapakhowa 132 kV S/c on D/c line (incl. 4 kms. river crossing)
5. Dhemaji – Silapathar 132 kV S/c on D/c line
6. Amingaon – Hazo 132 kV D/c line.
7. Kamakhya – Paltan Bazar 132 kV S/c Uderground Cable.
8. LILO of one circuit of Rangia – Rowta 132 kV D/c line at Tangla
9. LILO of Golaghat – Bokajan 132 kV S/c line at Sarupathar
10. Sonabil – Tezpur (New) 132 kV D/c line
11. LILO of Jorhat (Gormur) – Nazira 132 kV S/c on D/c at Teok.
12. LILO of Kamalpur – Sishugram 132kV S/c line at Amingaon 220/132kV S/s
13. LILO of Kamalpur – Kamakhya 132kV S/c line at Amingaon 220/132kV S/s

#### Sub-station

1. 2x160 MVA, 220/132 kV GIS at Amingaon
2. 2x100 MVA, 220/132 kV substation at Behiating(New Dibrugarh)
3. 2x50 MVA, 132/33 kV new sub-station at Guwahati Medical College (GIS)
4. 4x8.33 MVA (Single Phase), 132/33 kV new sub-station at Chapakhowa
5. 2x31.5 MVA, 132/33 kV new sub-station at Silapathar
6. 2x31.5 MVA, 132/33 kV new sub-station at Hazo
7. 2x50 MVA, 132/33 kV new sub-station at Paltan Bazar (GIS)
8. 2x31.5 MVA, 132/33 kV new sub-station at Tangla
9. 2x25 MVA, 132/33 kV new sub-station at Sarupathar



10. 2x50 MVA, 132/33 kV new sub-station at Tezpur (New)
11. 2x31.5 MVA, 132/33 kV new sub-station at Teok
12. Augmentation of Samaguri 220/132 kV sub-station by replacing existing 2x50 MVA, 200/132 kV transformer by 2x160 MVA, 220/132 kV transformer
13. Augmentation of Dhaligaon 132/33 kV sub-station by replacing existing 2x25 MVA, 132/33 kV transformer by 2x50 MVA, 132/33 kV transformer
14. Augmentation of Samaguri 132/33 kV sub-station by replacing existing 1x16 MVA, 132/33 kV transformer by 1x40 MVA, 132/33 kV transformer
15. 132kV Dhemaji (Extension) Substation
16. 132kV Sonabali (Extension) Substation
17. 220kV Tinsukia (Extension) Substation
18. 132kV Rupai (Extension) Substation
19. 220kV Rangia (Extension) Substation
20. 132kV Kahalipara (Extension) Substation
21. 132kV Kamakhya s/s (Extn) Substation

## **Maghalaya**

### **Transmission line**

1. Byrnihat (Killing) – Mawngap – New Shillong 220 kV D/c line
2. LILO of both circuits of MLHEP – Khliehriat 132 kV D/c line at Mynkre
3. Phulbari – Ampati 132 kV D/c line

### **Sub-station**

1. 2x160 MVA, 220/132 kV Mawngap GIS (Upgradation)
2. 2x160 MVA, 220/132 kV + 2x50 MVA, 132/33 kV GIS at New Shillong
3. 2x50 MVA, 132/33 kV new sub-station at Mynkre
4. 2x50 MVA, 132/33 kV new sub-station at Phulbari
5. 132kV Ampati (Extension) Substation
6. 220kV Byrnihat (Killing) AIS Substation Extension

## **Manipur**

### **Transmission line**

1. Imphal (PG) - Ningthoukhong 132 kV D/c Line
2. LILO of Yurembam(Imphal-State) - Karong Line at Gamphajol
3. Stringing of Yaingangpokpi - Kongba 132kV Line(2<sup>nd</sup>ckt)
4. Stringing of Kakching - Kongba 132kV line (2<sup>nd</sup>ckt)
5. Stringing of Kakching - Churachandpur 132kV Line (2<sup>nd</sup>ckt)
6. LILO of one circuit of Kongba – Kakching 132 kV D/c line (one ckt existing + other ckt under this scheme) at Thoubal 132/33kV substation
7. Renovation of Yurembum – Karong - Mao (Manipur-Nagaland border) section of Yurembum-Karong-Kohima 132kV S/c line
8. Rengpang-Tamenlong 132kV S/C line on D/C tower



### **Sub-station**

1. 2x20 MVA, 132/33 kV Gamphajol new sub-station
2. 132kV Ningthoukhong (Extension) Substation (Augmentation of Ningthoukhong by addition of 2<sup>nd</sup> transformer – 1x20 MVA, 132/33 kV)
3. 132/33kV Kongba (Extension) Substation (Augmentation of Kongba by addition of 3<sup>rd</sup> transformer – 1x20 MVA, 132/33 kV)
4. 132kV Rengpang (Extension) Substation, (Augmentation of Rengpang by addition of 2<sup>nd</sup> transformer – 20 MVA (4x5 MVA Single Phase), 132/33 kV)
5. Augmentation of Jiribam by addition of 2<sup>nd</sup> transformer – 1x20 MVA, 132/33 kV
6. 132/33 kV Tamenglong (New) Substation
7. 132/33kV Thoubal (Extension) Substation
8. 132kV Imphal (PG) (Extension) Substation
9. 132kV Kakching (Extension) Substation
10. 132kV Yaingangpokpi (Extension) Substation
11. 132/33kV Ukhrol (Augmentation) Substation

### **Mizoram**

#### **Transmission line**

1. Lungsen – Chawngte 132 kV S/c line (charged at 33 kV)
2. Chawngte – S. Bungtlang 132 kV S/c line via S. Diltlang (charged at 33 kV)
3. W. Phaileng – Marpara 132 kV S/c line on D/c tower

#### **Sub-station**

1. New sub-station at Lungsen with 132/33 kV, 2x12.5 MVA transformer (This requires charging of Lunglei – Lungsen line at 132 kV. For this, one 132 kV bay at Lungsen would be constructed under this scheme)
2. Augmentation of Lunglei sub-station by replacing existing 2x12.5 MVA, 132/33 kV transformer with 2x25 MVA 132/33 kV transformer (one 132 kV bay at Lunglei for charging of Lunglei – Lungsen line at 132 kV would be constructed under this scheme)
3. New sub-station at W. Phaileng with 132/33 kV, 2x12.5 MVA transformer (This requires charging of Zemabawk – W. Phaileng line at 132 kV. For this, 132 kV bay at Zemabawk would be constructed by Govt. of Mizoram whereas 132 kV bays at Phaileng will be constructed under this scheme). Govt. of Mizoram need to construct 132 kV bay at Zemabawk in matching time-frame.
4. New 132/33kV sub-station at Marpara



## **Nagaland**

### **Transmission line**

1. LILO of Mokokchung (Nagaland) - Mariani (Assam) 132 kV D/c line at Longnak
2. New Kohima – Mokokchung (PG) 220 kV S/c line on D/c tower
3. Tuensang – Longleng 132 kV S/c line on D/c tower
4. New Kohima (Zadima) – New Secretariat Complex Kohima 132 kV D/c line
5. LILO of Kohima – Wokha 132 kV S/c line at New Kohima
6. LILO of Kohima – Meluri (Kiphire) 132 kV S/c line at Pfutsero
7. Wokha (Doyang River) - Zunheboto – Mokokchung (Nagaland) 132 kV S/c on D/c tower

### **Sub-station**

1. 132kV Wokha Substation Extension, 1x25 MVA at Wokha
2. 2x25 MVA, 132/33 kV new sub-station at Longnak (Mongkolemba Junction)
3. 2x10 MVA, 132/33 kV new sub-station at Longleng
4. 2x25 MVA, 132/33 kV new sub-station at New Secretariat Complex Kohima
5. 2x25 MVA, 132/33 kV new sub-station at Pfutsero
6. 2x25 MVA, 132/33 kV new sub-station at Zunheboto
7. 132kV Tuensang Substation Extension
8. 132kV Mokokchung(State) Substation Extension
9. 220kV Mokokchung (POWERGRID) Substation Extn.
10. 220/132kV New Kohima Substation

## **Tripura**

### **Transmission line**

1. Rabindra Nagar – Rokhia 132 kV D/c line
2. LILO of one circuit of Surajmaninaqar- Rokhia 132 kV D/c line at Gokulnagar
3. LILO of Ambassa – P. K. Bari 132 kV S/c at Manu.
4. Kailasahar – Dharmanagar 132 kV D/c line
5. Rabindra Nagar – Belonia 132 kV D/c line
6. Udaipur - Bagafa 132 kV D/c line
7. Bagafa – Belonia 132 kV D/c line
8. Belonia – Sabroom 132 kV D/c line
9. LILO of Agartala (79 Tilla) - Dhalabil (Khowai) 132 kV S/c line.
10. Bagafa – Satchand 132 kV S/c on D/c line (utilizing the corridor of existing Bagafa – Satchand 66 kV line)
11. Udaipur- Amarpur 132 kV D/c line



## **Sub-station**

1. 2x50 MVA, 132/33 kV new sub-station at Rabindra Nagar plus 2 nos. 132 kV line bays for Monarchak line, 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
2. 2x50 MVA, 132/33 kV new sub-station at Gokulnagar (2 nos. 132 kV line bays at Suryanaminagar already available), alongwith 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
3. 2x50 MVA, 132/33 kV new sub-station at Manu alongwith, 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
4. Replacement of existing 2x7.5 MVA, 132/33 kV transformer by 2x50 MVA, 132/33 kV transformer at Kailasahar, alongwith 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
5. 2x50 MVA, 132/33 kV new sub-station at Belonia, alongwith 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
6. 2x50 MVA, 132/33 kV new sub-station at Bagafa (space available at Udaipur for 2 nos. 132 kV line bays), alongwith 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
7. Augmentation of Udaipur sub-station by addition of 2x50 MVA, 132/33 kV transformer including construction of new control room (Space available), 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
8. 2x31.5 MVA, 132/33 kV new sub-station at Sabroom, alongwith 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer (land available in existing 66 kV sub-station)
9. Augmentation of Ambassa sub-station by addition of 1x31.5, 132/33 kV transformer, 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer including extension of control room
10. Augmentation of Dhalabil (Khowai) sub-station by addition of 2x31.5, 132/33 kV transformer, 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer including extension of control room
11. Augmentation of Jirania sub-station by replacement of existing 1x10 MVA, 132/33 kV transformer by of 1x31.5 MVA, 132/33 kV transformer and addition of 1x31.5, 132/33 kV transformer; 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer including extension of control room
12. 2x31.5 MVA, 132/33 kV new sub-station at Mohonpur (Hezamara) alongwith 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
13. 2x31.5 MVA, 132/33 kV new sub-station at Satchand alongwith 2x10 MVA, 33/11 kV transformer & 2x250 KVA 11/0.4 kV transformer
14. 2x31.5 MVA, 132/33 kV new Substation at Amarpur along with 2x10 MVA, 33/11 kV transformer & 2x250kVA, 11/0.4 kV transformer
15. 132/33/11 kV Rokhia (Extn) Substation
16. 132/33/11 kV Dharmanagar (Extn.) Substation

**Status for DMS Packages under NERPSIP:**

State	Total no of packages	Total sanctioned cost (Rs. In Crs.)	No. of Packages awarded	Cost of awarded packages (Rs. In Crs.)
Assam	4	383.9	4	337.5
Manipur	4	207.8	4	170.9 Cr.
Meghalaya	3	170.79	3	117.78 Cr.
Mizoram	1	12.63	Included in substation package	
Nagaland	4	140.	2	42.42 Cr
Tripura	5	662.26	5	474.85 Cr.
<b>Total</b>	<b>21</b>	<b>1578.7</b>	<b>18</b>	

**Monthly Financial Progress Report of North-Eastern Region Power System Improvement Project (NERPSIP)**

S No.	Particulars	Amount (in crs)
1	Total Estimated cost of the Project	Rs. 5111.33
2	Amount received till 31/03/2017	Rs. 496.4
3	Amount spent till 31/03/2017	Rs. 223.9
4	Amount available as on 31/03/2017	Rs. 272.5

Rs. 45 Cr. transferred to Srinagar-Leh Transmission Project from Rs.237.9 Crs. (available balance shown above).



## Comprehensive Scheme of Transmission & Distribution System in Arunachal Pradesh & Sikkim

### Background

Presently, only 5 out of 20 districts of Arunachal Pradesh are connected to transmission network at 132/220 KV. The 33 KV system is the backbone of power distribution system in the State. Due to low population density spread over its geographical area of 84,000 sq.km, power demand in Arunachal Pradesh is scattered over large distances. Hence it is necessary to provide 132 KV connectivity in the state for proper voltage management and lower distribution losses. Similarly, the distribution system in Sikkim mainly relies on 66 KV network, which needs to be strengthened substantially.

In view of this, it is proposed to take up projects for strengthening intra-state T&D systems of the two States through 31 new 132 KV sub-stations, 14 substations of 66/11 KV, 2035 km of transmission lines (132 & 220 KV) and 2204 km of transmission lines (33 & 66 KV). The project would be implemented through PGCIL

### General Details

Date of Govt. approval	: Sep, 2014
Implementing Agency	: PGCIL,
Estimated Cost (Rs. crs)	: 4754.42 Cr.
Funding	:
Phasing of expenditure	: Year 2014-15 - 233.68Cr. Year 2015-16 - 928.61Cr. Year 2016-17 - 1085.63Cr. Year 2017-18 - 1641.64Cr. Year 2018-19 - 864.86Cr. Total <b>4754.42Cr.</b>
Completion schedule	: Dec, 2018(48 months)

### Summary

Particulars	State	
	Sikkim	Arunachal Pradesh
Total no. of Transmission Projects (Line & S/S)	52	68
Transmission Projects awarded	38	20
Transmission Projects yet to be awarded	14	48
Transmission Projects under construction	22	01
Transmission Projects whose construction is yet to start	16	08





## Scope of Transmission Projects

### Sikkim

#### Transmission line

1. 220 kV D/C line Rangpo(Samardong) - Dikchu Pool twin moose conductor (to be operated initially at 132kV)
2. 220 kV D/C Dikchu - Singhik twin moose conductor (to be operated initially at 132kV)
3. 220 kV D/C Legship pool – New Melli line twin moose conductor
4. 220 kV D/C line Singhik – Chungthang twin moose conductor (to be operated initially at 132kV)
5. 220 kV D/C line Rangpo(PG) – Samardong (to be operated initially at 132kV)
6. LILO of Rangit-Melli (Power Deptt. Sikkim) 132kV S/c at Manpur 132kV D/C line
7. LILO of Rangit-Melli (Power Deptt. Sikkim) 132kV S/c at Namchi 132kV D/C line
8. 132 kV D/C Dikchu-Parbing Transmission Line
9. 66 kV S/C Khamdong-Temi Transmission Line
10. 66 kV D/C Dikchu pool-Makha Transmission Line
11. 66 kV S/C Khamdong-Makha Transmission Line
12. 66 kV S/C Samardong-Namthong Transmission Line
13. 66 kV S/C Samardong-Mamring Transmission Line
14. 66 kV D/C Samardong-Kumrek Transmission Line
15. 66 kV D/C Kumrek-Rorathang Transmission Line
16. 66 kV D/C Rorathang - LiLo point on Pakyong - Rongli Line
17. 66 kV S/C Parbing – sichey Transmission Line
18. 66 kV S/C Parbing - Tadong Transmission Line
19. 66 kV D/C Parbing – Pangthang Transmission Line
20. 66 kV S/C Singhik- Passidong Transmission Line
21. 66 kV S/C Singhik- Mangan Transmission Line
22. 66 kV D/C Chungthang- Lachen Transmission Line
23. 66 kV D/C Chungthang- LILON point on Rabon- Malting line

#### Sub-station

1. 220/132kV Legship Pool (New) s/s
2. 132/66/11kV Dikchu pool (new) s/s
3. 132/66kV Namchi (New) S/S.
4. 66/11kV Makha (New) s/s
5. 132/66/11kV Chungthang (New) s/s
6. 132/66/11kV Singhik (New) s/s
7. 132/66/11kV Samardong (New) S/s
8. 132/66kV Parbing (New) S/s
9. 66/11kV Temi (New) s/s
10. 66/11kV Khamdong (New) s/s
11. 66/11kV Kumrek (New) s/s
12. 66/11kV Namthang (New) s/s
13. 66/11kV Rorathang (New) s/s



14. 66/11kV Rellichu (New) s/
15. 66/11kV Richenpong (New) s/s
16. 66/11kV Sombaria (New) s/s
17. 66/11kV Pangthang (New) s/s
18. 66/33kV Lachen (New) s/s
19. 66/11kV Passingdong (New) s/s

### **Bay Extension Works in existing Substations**

1. 220kV New Melli (PG) GIS S/S Extn.
2. 132kV Rangpo (PG) s/s Extn
3. 66/11kV New Namchi s/s Extn including 66kV Underground FO cable & Power cable
4. 66kV Old Namchi S/S extn.
5. 66/11kV Sichey s/s Extn
6. 66/11kV Tadong s/s Extn.
7. 66/11kV Mangan s/s Extn
8. 66/11kV Old Namchi s/s Extn.
9. 66/11kV Mamring s/s Extn
10. 66/11kV Pelling S/S Extn

### **Arunachal Pradesh**

#### **Transmission line**

1. Niglok - Pasighat New (Napit) 132 kV S/c line on D/c tower
2. Pasighat New (Napit) - Pasighat Old 132 kV S/c line on D/c tower
3. Khupi – Seppa 132 kV S/c line on D/c tower
4. Seppa-Rilo 132 kV S/c line on D/c tower
5. Rilo-Sagali 132 kV S/c line on D/c tower
6. Sagali-Naharlagun 132 kV S/c line on D/c tower
7. Naharlagun – Gerukamukh 132 kV S/c line on D/c tower
8. Gerukamukh – Likabali 132 kV S/c line on D/c tower
9. Likabali – Niglok 132 kV S/c line on D/c tower
10. Deomali – Khonsa 132 kV S/c line
11. Khonsa – Changlang 132 kV S/c line
12. Changlang – Jairampur 132 kV S/c line
13. Jairampur – Miao 132 kV S/c line
14. Miao - Namsai (PG) 132 kV S/c line on D/c tower
15. Tezu (PG) – Halaipani 132 kV S/c line on D/c tower
16. Naharlagun – Banderdewa 132 kV S/c line on D/c tower
17. Chimpu (Itanagar)- Holongi 132 kV S/c line on D/c tower
18. Ziro (PG) – Palin 132 kV S/c line on D/c tower
19. Palin – Koloriang 132 kV S/c line on D/c tower
20. LILO of Daporijo - Along 132kV S/c at Basar 132 kV S/c line on D/c tower
21. Roing (PG) – Anini 132 kV S/c line on D/c tower
22. Along – Kambang 132 kV S/c line on D/c tower
23. Kambang – Mechuka 132 kV S/c line on D/c tower



24. Along – Yingkiong 132 kV S/c line on D/c tower
25. Yingkiong – Tuting 132 kV S/c line on D/c tower
26. Ziro (PG) - Ziro New 132 kV S/c line on D/c tower
27. Tawang – Lumla 132 kV S/c line on D/c tower
28. Daporijo – Nacho 132 kV S/c line on D/c tower
29. Khonsa – Longding 132 kV S/c line on D/c tower
30. Roing (PG) – Dambuk 132 kV S/c line on D/c tower
31. Pasighat Old – Mariyang 132 kV S/c line on D/c tower
32. Rilo – Seijosa 132 kV S/c line on D/c tower
33. Seppa – Bameng 132 kV S/c line on D/c tower

### **Sub-station**

1. 63 MVA, 132/33 kV at Niglok
2. 20 MVA, 132/33 kV at Pasighat New (Napit)
3. 15 MVA, 132/33 kV at Seppa
4. 15 MVA, 132/33 kV at Rilo
5. 15 MVA, 132/33 kV at Sagali
6. 63 MVA, 132/33 kV at Naharlagun
7. 15 MVA, 132/33 kV at Gerukhamukh
8. 15 MVA, 132/33 kV at Likabali
9. 15 MVA, 132/33 kV at Khonsa
10. 15 MVA, 132/33 kV at Changlang
11. 15 MVA, 132/33 kV at Jairampur
12. 15 MVA, 132/33 kV at Miao
13. 15 MVA, 132/33 kV at Halaipani
14. 63 MVA, 132/33 kV at Banderdewa
15. 20 MVA, 132/33 kV at Holongi
16. 15 MVA, 132/33 kV at Palin
17. 15 MVA, 132/33 kV at Koloriang
18. 15 MVA, 132/33 kV at Basar
19. 15 MVA, 132/33 kV at Yingkiong
20. 15 MVA, 132/33 kV at Kambang
21. 15 MVA, 132/33 kV at Ziro New
22. 15 MVA, 132/33 kV at Dambuk
23. 15 MVA, 132/33 kV at Seijosa
24. 15 MVA, 132/33 kV at Bameng
25. Augmentation\*\* 15 MVA, 132/33 kV at Daporijo

### **Substation Extension:**

1. 132kV Pasighat Old (Extn)
2. 132kV Zero (Extn)
3. 132kV Khupi (Extn)
4. 132kV Chimpu(Itanagar) (Extn)
5. 132kV Deomali (Extn)
6. 132kV Namsai (PG) Extn



6. 132 kV Tezu (Extn)
7. 132 kV Roing (Extn)
8. 132 kV Along (Extn)
9. 132/33 kV Daporijo (Extn)

Monthly Financial Progress Report of Comprehensive Scheme of Transmission & Distribution System in Arunachal Pradesh & Sikkim

Sl. No.	Particulars	Amount(in crs)
1	Total estimated cost of project	Rs. 4754.42
2	Amount received till 31.3.2017	Rs. 460.20
3	Amount spen till 31.3.2017	Rs. 255.00
4	Amount available as 31.3.2017	Rs. 205.20



## 220kV Transmission System from Alusteng (Srinagar) to Leh (via Drass, Kargil, Khalsti and Leh Sub-station in Jammu & Kashmir (J&K))

### Background

Govt. of India has approved a proposal for construction of a 220kV Transmission System from Alusteng (Srinagar) to Leh (via Drass, Kargil and Khalsti 220/66kV PGCIL substations) and 66kV Power Grid Corporation of India Limited (PGCIL) interconnection system for Drass, Kargil, Khalsti and Leh substations in Jammu & Kashmir (J&K). The transmission project shall provide grid connectivity and reliable power supply to the strategically important Ladakh region. The electric supply system of Ladakh Region in the State of J&K is currently isolated from the Northern Grid and is fed through local small hydro generation and diesel generator sets. Being an area of defence establishments and strategic importance, there is a need to improve the reliability of power supply through inter-connection with the Northern Grid. Accordingly, a 220KV Transmission System has been planned. The difficult terrain has left the Ladakh region isolated with no electrical connectivity with the rest of the grid. The region is experiencing an energy shortage of about 95 percent. The cost of local diesel generation is very high (about Rs 16-17/unit). Being an area of strategic importance, reliable power supply arrangement is very crucial.

### General Details

Date of Govt. approval	: Jan, 2014
Implementing Agency	: PGCIL,
Estimated Cost (Rs. crs)	: 1788.41 Crore
Funding	:
Phasing of expenditure	: Year 2013-14 - 68.84 Cr. Year 2014-15 - 357.68 Cr. Year 2015-16 - 470.26 Cr. Year 2016-17 - 536.53 Cr. Year 2017-18 - 355.10 Cr. Total <b>1788.41Cr.</b>
Completion schedule	: Sep, 2017(42 months)

### Summary:

Particulars	State
	Jammu & Kashmir
Total no. of Transmission Projects (Line & S/S)	12
Transmission Projects awarded	12
Transmission Projects yet to be awarded	nil
Transmission Projects under construction	11
Transmission Projects whose construction is yet to start	01

**Scope of Transmission project;****Transmission Line**

1. Alusteng(Srinagar) – Drass 220 kV S/C Line
2. Drass – Kargil 220 kV S/C Line
3. Kargil – Khalsti 220 kV S/C Line
4. Khalsti – Leh 220 kV S/C Line
5. U/G cable near Sonmarg & Zozilla pass
6. LILO of 66 kV Leh – Nimmo line at Leh 220 kV S/S
7. LILO of 66 kV Leh – Kharu line at Leh 220 kV S/S

**Substation**

1. 50 MVA 220/66 kV Drass GIS
2. 50 MVA 220/66 kV Kargil GIS
3. 50 MVA 220/66 kV Khalsti GIS
4. 50 MVA 220/66 kV Leh GIS

**Monthly Financial Progress Report of 220kV Transmission System from Alusteng (Srinagar) to Leh (via Drass, Kargil, Khalsti and Leh Sub-station in Jammu & Kashmir (J&K))**

S No.	Particulars	Amount (in crs)
1	Total Estimated cost of the Project	Rs. 1788.41 (95% GOI Share (Rs1699.00 Crs) & (5% Govt of J&K share (Rs 89.41 Crs))
2	Amount received till 31/03/2017	Rs 833.54 Cr. + Rs.20 Cr.from Govt. of J&K+ Rs 65 Cr. Transferred from NERPSIP
3	Amount spent till 31/03/2017	Rs 900.64 Cr.
4	Amount available as on 31/03/2017	Rs. 18 Cr.

**Critical Transmission Projects in Northern Region(NR)**

Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
1	Bareilly-Meerut 765kV D/C line.	Nov'13	-	Bareilly-Meerut 765kV S/C line has not commissioned yet. Early commissioning of this line will strengthen the system.	North Karanpura Transmission co. Ltd. (NKTCL)	Line was covered under transmission project awarded through TBCB route in May,2010 but construction of line is yet to start.	➤ Under litigation	Hon,ble Supreme Court on 12.08.16 has disposed of the appeal and directed ATE to decide on the appeal
2	Mohindergarh - Bhiwani 400kV D/C line.	Aug'18	Aug'18	Mohindergarh - Dhanonda 400kV D/C line is critically loaded. These loaded lines would get relief after commissioning of new lines 400 kV Mohindergarh -Bhiwani D/C line.	Powergrid Corporation of India Limited (PGCIL)	LGH: 120 Ckm TL: 183 nos. FDN: 22 nos. TE: 0 nos. STG: 0 Ckm	➤ Slow progress	PGCIL is to expedite progress of line
3	Phagi - Ajmer 400kV D/C line	Sep'12	Jun'17	765kV Phagi s/s has following connectivity: a) 2xS/C 765kV Gwalior - Phagi line b) 1xS/C 765kV Phagi-Bhiwani line c) 765/400kV, 1500MVA ICT-1 & 2 d) 400kV Phagi-Bassi D/C line  The loading of 400kV Phagi-Bassi D/C is in the range of 900-950MW each ckt. Early commissioning of 400kV Phagi-Ajmer D/C would relief the loading of 400kV Phagi-Bassi D/C line. This line is part of ATS of Kalisindh TPP (2x600MW).	Rajasthan Vidyut Prasaran Nigam Limited (RVPNL)	LGH: 210 Ckm TL: 283 nos. FDN: 280 nos. TE: 259 nos. STG: 63 Ckm	➤ Progress affected due to contractual issue with M/s GET. Approval to 2 nos. of NHAI crossing is awaited.	Work order had been withdrawn from M/s. GET and awarded to M/s Varsana Ispat. Work under progress

**Legends:**

LGH: Total Length;

TL: Total Location;

FDN: Foundation Completed;

TE: Towers Erected;

STG: Stringing Completed;

LA: Land Acquisition

CW: Civil works completed;

ER: S/s equipment received;

EE: S/s equipment erected



Sr. No.	Transmission Corridor	Schedule d Commissioning Date	Actual/ Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
4	2x1500 MVA, 765/400k Gr. Noida(UP) S/s	Apr'16	May'17	<p>Planned connectivity at 765kV Gr. Noida S/S is:</p> <p>(i) LILO of 765kV Agra-Meerut S/C at 765/400 kV Gr. Noida - <b>Commissioned</b></p> <p>(ii) 2x1500 MVA, 765/400kV Gr. Noida – <b>ICT-I Commissioned in Apl'16 and ICT-II under progress needed to be completed at the earliest.</b></p> <p>(iii) 400kV Gr. Noida- Sikandrabad D/C line – <b>commissioned</b></p> <p>(iv) Gr Noida – Noida Sector 148 D/C line – <b>under progress</b></p> <p>The commissioning of 400kV Gr.Noida-Noida sector -148 D/C line would relief the loading of 400kV Dadri- Gr. Noida and it would also increase import from WR.</p>	Western UP Power Transmission co. Ltd. (WUPPTCL)	<p>Progress as follows;</p> <p><b>ICT-II</b> LA: 100% CW: 99% ER: 98% EE: 98%</p> <p><b>400kV Gr.Noida-Noida sector - 148 D/C line</b> LGH: 41 Ckm TL: 131 nos. FDN: 127 nos. TE: 127 nos. STG: 27 Ckm</p>	<p>➤Progress affected due to delay in supply of ICTs</p> <p>➤Severe row issues affected progress</p>	WUPPTCL/ UPPTCL may take up with state authority
5	Dehradun – Abdullapur 400 kV D/C line	Nov'14 Jun'17 (Rev)	June'17	System Strengthening in NR (Enhancement of Uttarakhand connectivity )	Powergrid Corporation of India Limited (PGCIL)	<p>LGH: 178 Ckm TL: 247 nos. FDN: 247 nos. TE: 242 nos. STG: 155 Ckm</p>	➤5.0 km of stringing at Saharanpur is under severe ROW. Delay in tree cutting by forest dept. in Uttarakhand has affected stringing.	Distt Administration help is sought

**Legends:**

LGH: Total Length; TL: Total Location; FDN: Foundation Completed; TE: Towers Erected; STG: Stringing Completed;  
 LA: Land Acquisition CW: Civil works completed; ER: S/s equipment received; EE: S/s equipment erected





Sr. No.	Transmission Corridor	Schedule Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
6	Dulhasti-Kishenpur 400 kV D/C line (115 Ckm)	Nov'14 Jun'17 (Rev)	Jun'17	Evacuation of power from hydro projects in J&K	Powergrid Corporation of India Limited (PGCIL)	LGH: 115 Ckm TL: 340 nos. FDN: 336 nos. TE: 330 nos. STG: 106 Ckm	<ul style="list-style-type: none"> <li>➤ Land owners in villages Badanoo, Tipri and Phagsoo in Thathri, in Dist. Doda are creating obstruction at 6 locs [52/0, 53/0, 54/0, 55/0, 56/0, 58/0 and 59/0 and stringing betn 52/0 to 64/0].</li> <li>➤ Land owners are demanding diversion of line and also high compensation due to involvement of apple Orchard. Works at these locs are held up since last three years.</li> </ul>	<ul style="list-style-type: none"> <li>➤ PGCIL has taken up with DC, Doda for expeditious settlement of compulsory land acquisition and compensation. Support from District Administration required for completing balance works of the line</li> </ul>
7	Kishenpur- New Wanpoh 400 kV D/C line (132 km D/C + 7 km Multi ckt) (278 Ckm)	Nov'15 Jun'17 (Rev)	Jun'17	Evacuation of power from hydro projects in J&K	Powergrid Corporation of India Limited (PGCIL)	LGH: 279 Ckm TL: 399 nos. FDN: 398 nos. TE: 396 nos. STG: 274 Ckm	<ul style="list-style-type: none"> <li>➤ Fdn. works at Locn. No. 76/0 in Dist./Tehsil Ramban and erection at Locn. No. 73/0, 74/0, 75/0 and Stringing between locn. 54/0-55/0 and 55/0- 56/0 in Nagam, Banihal Tehsil, Dist. Ramban are held up since last three years due to severe ROW issues. Land owners are demanding diversion of line.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Matter taken up with the Land Acquisition Collector, Dist. Administration and State Govt. Continuous support from Dist. Adm. required for completing balance works of the line.</li> </ul>

**Legends:**

LGH: Total Length;

TL: Total Location;

FDN: Foundation Completed;

TE: Towers Erected;

STG: Stringing Completed;

LA: Land Acquisition

CW: Civil works completed;

ER: S/s equipment received;

EE: S/s equipment erected



Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
8.a	Kishenganga – Amargarh 220 kV D/C Line	Jul'17	Nov'17	Evacuation of power from Kishanganga HEP (Critical as without this line it will not be possible to synchronize and commission Kishenganga HEP units.)	Powergrid Corporation of India Limited (PGCIL)	LGH: 84 Ckm TL: 148 nos. FDN: 99 nos. TE: 47 nos. STG: 0 Ckm	<p>➤The line is traversing through Districts of Bandipora &amp; Baramulla in J&amp;K. As per state laws, land for tower is to be acquired.</p> <p>➤Works completely stopped since 08th Jul'16 due to violent agitation in Kashmir Valley. During Nov'16, though works commenced but same got intermittently stopped due to bad law &amp; order situation.</p> <p>➤Forest proposal submitted (3 Ha, 4 nos. location). FAC completed. Cabinet approval pending.</p>	Expeditious issuance of Section-IV Notification and settlement of land compensation rate for all locations through the Private Negotiation Committee (PNC) is required in above districts. So far, out of 150 locations, Section-IV issued for 114 locn. and PNC done for 90 locn. Only.Support from District Adm. required for completing balance works of the line.
8.b	Kishenganga – Wagoora 220 kV D/C Line	Jul'17 Mar'18 (Rev)	Mar'18	Evacuation of power from Kishanganga HEP (Critical as without this line it will not be possible to synchronize and commission Kishenganga HEP units.)	Powergrid Corporation of India Limited (PGCIL)	LGH: 228 Ckm TL: 248 nos. FDN: 76 nos. TE: 21 nos. STG: 0 Ckm	<p>➤Work affected due to disturbance in Kashmir since Jul'16 &amp; slow progress.</p>	State authorities help is needed to resolve the disturbance and compensation issue.

**Legends:**

LGH: Total Length;      TL: Total Location;      FDN: Foundation Completed;      TE: Towers Erected;      STG: Stringing Completed;  
 LA: Land Acquisition      CW: Civil works completed;      ER: S/s equipment received;      EE: S/s equipment erected



Sr. No.	Transmission Corridor	Schedule Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
9	Anpara-D – Unnao 765kV S/C line.	Jan'12	Sep'17	Required for evacuation of power from Anpara-D STPS	UPPTCL	LGH: 416 Ckm TL: 1225 nos. FDN: 1117 nos. TE: 1039 nos. STG: 337 Ckm	➤Tree cutting for making corridor is pending with DFO Kaimoor.	UPPTCL may take up matter with state forest dept.
10	LILO of one ckt. of Kishanpur-New Wanpoh at Baglihar HEP 400kV D/C line.	Aug'15	Dec'17	Required for evacuation of power from Baglihar HEP	JKPDD/ JKPDC	LGH: 12 Ckm TL: 17 nos. FDN: 04 nos. TE: 01 nos. STG: 0 Ckm	➤Progress has been affected due to severe RoW issue at 2 locs and involvement of forest area.	Matter is to be taken with distt. authority & state forest dept.
11	Bara TPS- Mainpuri 765kV S/C line-1.	Jun'17	Jun'17	Out of 2 no. 765kV S/C line, one has been commissioned but this line is required for evacuation of full power from Bara TPS and to meet N-1 criteria.	SEUPPTCL	LGH: 375 Ckm TL: 889 nos. FDN: 613 nos. TE: 346 nos. STG: 0 Ckm	➤The progress has been affected due to severe RoW issue and weak financial condition of developer.	UPPTCL may take up matter with SERC on financial issue of company.
12.a	Chanju HEP- Narkot 132kV D/C line	May'16	May'17	The transmission system required for evacuation of power from Chanju HEP (3x12MW):	HPSEBL	LGH: 12 Ckm TL: 30 nos. FDN: 29 nos. TE: 27 nos. STG: 10 Ckm	➤The progress has been affected due to pending forest clearance	Matter is to be taken up with the state forest department. / HPSEBL/PGCIL
12.b	LILO of Kurthale-Bathri 132kV line at Narkot (PS)	May'16	May'16		HPSEBL	LGH: 1 Ckm TL: 1 nos. FDN: 1 nos. TE: 1 nos. STG: 1 Ckm		
12.c	220/132 kV Narkot Pooling Station	May'16	-		PGCIL	Yet to start work.		

**Legends:**

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 LA: Land Acquisition; CW: Civil works completed; ER: S/s equipment received; EE: S/s equipment erected



Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
13.a	Bajoli HEP-Lahal 220kV D/C line	Oct'16	July'19	Required for evacuation of power from Bajoli HEP(3x60MW) in H.P, which is scheduled to complete by Aug'18.	HPPTCL	Yet to start work.	➤Forest clearance pending	HPPTCL may expedite forest clearance and also construction of line in non-forest area
13.b	Lahal-Chamera 400kV D/C line	Oct'16	July'19			Yet to start work.	➤Forest clearance pending	
14	Goindwal Sahib-Bottianwala 220 kV D/C line	Aug'12	Dec'17	This line is part of ATS of Goindwal Sahib (2x270MW) generation project. Out of three nos. 220Kv D/C lines two nos. have been commissioned. This line shall be required for evacuation of full power from generation project.	PSTCL	LGH: 129 Ckm TL: 201 nos. FDN: 163 nos. TE: 160 nos. STG: 0 Ckm	➤Contractual issue and stringing yet to start	PSTCL
15	Kashang- Jhangi PS 220kV D/C line	Apr'16	Apr'17	220kV D/C line planned for evacuation of power from Kashang HEP and this line would be required to meet the N-1 criteria. Kashang – Bhaba 220kV line of HPPTCL is commissioned.	HPPTCL/PGCIL	Yet to be awarded	➤Jhangi pooling station and downstream transmission network is yet to be awarded.	PGCIL may takeup construction of Jhangi PS
16.a	Lalitpur TPS – Agra(UP) Ckt-II 765kV S/C line	Jan'17	Apr'17	This line is part of ATS of Lalitpur TPS (3x660MW) generation project. This line would be needed for meeting the N-1 criteria.	UPPTCL	LGH: 335 Ckm TL: 902 nos. FDN: 902 nos. TE: 902 nos. STG: 335 Ckm	➤Row issue at few locations. ➤Line construction completed, line charging attempt failed on 31-03-2017.	Issue resolved by UPPTCL and line is expected by 4/17

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ER: S/s equipment received;TE: Towers Erected;  
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STG: Stringing Completed;



Sr. No.	Transmission Corridor	Schedule Commissioning Date	Actual/ Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
16.b	Agra(UP) – Agra(South) 400kV D/C line	Aug'16	Apr'17	This line is part of ATS of Lalitpur TPS (3x660MW) generation project. Line is needed for transmission of power from Agra (UP) to Agra (south) for feeding load at Agra (South).	UPPTCL	LGH: 139.4 Ckm TL: 203 nos. FDN: 203 nos. TE: 203 nos. STG: 130 Ckm	➤Row issue at few locations	Issue resolved by UPPTCL and line is expected by 4/17
16.c	LILO of Agra – Muradnagar at Mathura 400kV D/C line	Aug'16	Jun'17	This line is part of ATS of Lalitpur TPS (3x660MW) generation project. Line is needed for transmission of power from Agra (UP) to Mathura and feeding load at Mathura.	UPPTCL	LGH: 64 Ckm TL: 88 nos. FDN: 88 nos. TE: 86 nos. STG: 46 Ckm	➤Row issue at few locations	Issue resolved by UPPTCL and line is expected by 6/17
16.d	Agra(UP) – Mathura 400kV S/C line	Aug'16	Apr'17	This line is part of ATS of Lalitpur TPS (3x660MW) generation project. Line is needed for transmission of power from Agra (UP) to Mathura and feeding load at Mathura.	UPPTCL	LGH: 142 Ckm TL: 382 nos. FDN: 382 nos. TE: 382 nos. STG: 142 Ckm	➤progress affected by row issues at few location now resolved and Work completed.	Issue resolved by UPPTCL and line is ready for energization by 4/17
16.e	3x200MVA 400/132 kV S/s at Agra and downstream System.	Aug'16	Apr'17	It is a part of ATS and needed for feeding load of downstream network.	UPPTCL	LA: 100% CW: 91% ER: 100% EE: 95%	➤Progress affected due to litigation in land acquisition	Issue resolved and s/s is ready for energization,
17.a	Suratgarh TPS- Bikaner 400kV D/C line	Jan'13	Jul'18	This line is part of ATS of Suratgarh Super Critical TPS (2x660 MW).	RVPNL/ Adani transmission	LGH: 280 Ckm TL: 360 nos. FDN: 91 nos. TE: 0 nos. STG: 0 Ckm	➤Slow progress.	RVPNL/Adani may expedite construction of line

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17.b	Suratgarh TPS – Babai (Jhunjhunu) 400kV D/C line	Jan'13	Sep'17		RVPNL	LGH: 480 Ckm TL: 676 nos. FDN: 661 nos. TE: 606 nos. STG: 293 Ckm	➤Slow progress and route diversion also needed to avoid air force land.	
17.c	2x315MVA 400/220 kV S/s at Babai.	Jan'13	Apr'17	It is a part of ATS and needed for feeding load of downstream network.	RVPNL	LA: 100% CW: 96% ER: 88% EE: 97%	➤Slow progress.	RVPNL may expedite construction of SS.
18	LILO of one ckt of Nathpa Jhakri –Abdullapur 400 Kv D/C at Swara Kuddu	Mar'19	Aug'19	This line is ATS of Swara Kuddu (3x37MW) & is required for evacuation power from generating station.	HPPTCL	LGH: 20 Ckm TL: 0 nos. FDN: 0 nos. TE: 0 nos. STG: 0 Ckm	➤Stage-II Forest clearance is pending. Stage -I clearance received in July 2015.	Action to be taken by HPPTCL.
19	LILO of Parbati II HEP- Parbati-III Pooling station 400kV D/C at Sainj	Mar'16	Apr'17	Line required for evacuation of power from Sainj HEP (2x50 MW)	HPPTCL	LGH: 1 Ckm TL: 1 nos. FDN: 1 nos. TE: 1 nos. STG: U/P Sagging of earth wire upto LILO tower completed, sagging of conductor upto LILO tower under progress	➤Shutdown of PKTCL line is needed for completion of LILO work.	Action to be taken by HPPTCL.

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20	Malerkotla – Amritsar 400 kV D/C Line	Sep'16	April'17	Required in matching time frame of Champa – Kurushetra HVDC.	Essel Infra Projects Ltd. (ESSEL)	LGH: 298 Ckm TL: 413 nos. FDN: 413 nos. TE: 412 nos. STG: 290 Ckm	➤Forest Approval: Stage-I approval received on 09th Jan 2017. Compliance of compensatory afforestation etc is under process for grant of Stage-II approval.	Action to be taken by Essel Infra.
21	Unnao – Mainpuri (Quad) 765 kV S/C Line	Feb'15	Jul'17	This would help in evacuating power from Anpara complex.	South East UP Power Transmission Company Limited (SEUPPTCL)	LGH: 188 Ckm TL: 449 nos. FDN: 380 nos. TE: 274 nos. STG: 0 Ckm	➤Slow progress.	Action to be taken by SEUPPTCL.
22	Orai – Aligarh 765 kV D/C Line	Apr'18	Apr'18	This would enhance the transfer capability & reliability to NR.	Powergrid Corporation of India Limited (PGCIL)	LGH: 662 Ckm TL: 939 nos. FDN: 815 nos. TE: 723 nos. STG: 169 Ckm	➤Severe ROW problem near urban area	Efforts are being made to complete earlier.Action to be taken by PGCIL.
23	LILO of Agra – Meerut 765kV S/C at Aligarh	Apr'18	Apr'18	This would enhance the transfer capability & reliability to NR.	Powergrid Corporation of India Limited (PGCIL)	LGH: 30 Ckm TL: 37 nos. FDN: 12 nos. TE: 08 nos. STG: 00 Ckm		Efforts are being made to complete earlier.
24	Orai – Orai (Q) 400 kV D/C Line	Apr'18	Apr'18	This would enhance the transfer capability & reliability to NR.	Powergrid Corporation of India Limited (PGCIL)	LGH: 76 Ckm TL: 111 nos. FDN: 104 nos. TE: 102 nos. STG: 55 Ckm		Efforts are being made to complete earlier.

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### Critical Transmission Projects in Eastern Region(ER)

Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
1	Rajarhat – Purnea 400 kV D/C line	Apr'16 Sep'17 (Rev)	Sep'17	Required for Eastern Region system Strengthening	Powergrid Corporation of India Limited (PGCIL)	LGH: 953 Ckm TL: 1328 nos. FDN: 1245 nos. TE: 1159 nos. STG: 698 Ckm	➤ Severe ROW constraints being faced at 28 locations; Districts South 24 Pargana (6 locs.- 3 Km), North 24 Pargana (9 locs.- 5 km), Nadia(6locs - 2 Km) Murshidabad(7 locs - 2 Km). Despite support from District Administration, work could not be taken up due to stiff resistance from local villagers for hefty demand of compensation.	Work at Rajarhat SS and associated TL at Rajarhat end is stopped due to agitation of villagers and political parties. Continued support from District Administration is required for completing balance works.
2	Angul – Jharsuguda 765 kV D/C line	Dec'15 Dec'17 (Rev)	Dec'17	Required for evacuation of IPP generation projects connected to Angul	Powergrid Corporation of India Limited (PGCIL)	LGH: 580 Ckm TL: 790 nos. FDN: 694 nos. TE: 615 nos. STG: 132 Ckm	➤ Progress of work affected at 96 locations and 30 km of stringing due to severe ROW issues near Athamalik, Angul, Dhenkanal, Rairhakhol, Sambalpur areas in Odisha. ➤ Involve 461 Ha of forest in Odisha. Stage-1 clearance issued in Dec,16. Demand Note towards NPV & CA is under finalization by Forest Divn. Permission to work awaited.	➤ Matter taken up with dist. Authority, Support from District Administration required for completing balance works of the line. Matter is to be taken up with RMoEF/State govt.

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Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/ Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
3	Raghunathpur – Ranchi 400 kV D/C line	Aug'10	Apr'17	Required for evacuation of power from Raghunathpur TPS.	Damodar Valley Corporation (DVC)	LGH: 311 Ckm TL: 439 nos. FDN: 439 nos. TE: 439 nos. STG: 309 Ckm	<p>➤ Slow progress due to non-availability of working gang and fund crunch of Contractor (M/s Jyoti Structures) and regular theft of conductor affected progress of line.</p>	<p>➤ DVC has made arrangement for payment directly to sub-vendor to solve fund crisis of M/s JSL and resumed work in Sep 2015 for balance portion. and charged line at 400 kV up to loc no. 394 on 22.02.2017.</p> <p>➤ During meeting taken by JS (Trans) in Dec 16, JS(T) had requested PGCIL to render assistance to DVC in completing balance works.</p> <p>➤ ACSR moose conductor has been arranged on replenishment basis from PGCIL</p>

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4.a	Barauni TPS(Extension)-Hazipur 220kV D/C line.	Jun'16	Sep'17	The system is required for evacuation of power from Barauni TPS ext. (2x250+150) MW, presently power could be evacuated through existing 132kV system.	BSPTCL	LGH: 214 Ckm TL: 403 nos. FDN: 368 nos. TE: 339 nos. STG: 93 Ckm	➤This transmission line passes through three district and there is severe RoW issues.50% of line length is along the river ganga so no work could be done from 8/16 to 11/16.	➤BSPTCL has taken up matter with distt adm to resolve row issues.
4.b	LILO of both Ckt. of Purnia-Begusaria at BTPS extension	Jun'16	Sep'17	-Do-		Work yet to start.		➤ BSPTCL may take construction at the earliest
5	Haldia TPP – Haldia (New) 220kV D/C line	Jul'16	Apr'17	This line is part of ATS of Haldia TPP of IPC(H)L and would be required for evacuation of power from generation project.	ISPAT	LGH: 5 Ckm TL: 15 nos. FDN: 15 nos. TE: 15 nos. STG: 4 Ckm	➤Project Authority needs to complete the stringing of the line and termination. ➤Signing of PPA for 2 <sup>nd</sup> unit is yet to be done.	ISPAT may expedite construction of line
6	Ind Barath-Jharsuguda PS 400kV D/C line	Dec'16	Apr'17	This line is ATS of generation project Ind Barath TPP (Utkal)(2x350MW).Presently power is being evacuated through interim arrangement of LILO of Rourkela-Raigarh at Ind Barath, which is creating congestion in the transmission line.	IBPIL	<b>Line Completed</b>	➤Line could not be charged due to pending tree cutting in the line corridor since Land owner demanding higher compensation.	IBPIL may take action.
7	Sterlite TPP-Jharsuguda 400kV 2xD/C line	Nov'16	Jul.17	This line is ATS of generation project Jharsuguda-TPP. Presently power is being evacuated through interim arrangement of LILO of Rourkela-Raigarh at Sterlite TPP which is creating congestion in the transmission line.	SEL	LGH: 40 Ckm TL: 64 nos. FDN: 51 nos. TE: 9 nos. STG: 0 Ckm	➤Delay in award of the project. ➤Involvement of Forest. ➤RoW issue.	SEL may take action to expedite progress.

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8	Sagardighi – Gokarna 400kV D/C line	Jul'15	May'17	This line is part of ATS of generation project Sagardighi-TPP (2x300MW). Out of 2 lines, one line has been commissioned. This line is required to meet the N-1 criteria.	WBSETCL	LGH: 82 Ckm TL: 154 nos. FDN: 152 nos. TE: 144 nos. STG: 37 Ckm	➤Slow progress	WBSETCL is required to expedite the construction.
9	OPGC TPP – Jharsuguda 400kV D/C line	Jul'17	Jul'17	This line is ATS of generation project OPGC-TPP and required for evacuation of power from generation project.	SGL	LGH: 102 Ckm TL: 152 nos. FDN: 108 nos. TE: 82 nos. STG: 14 Ckm	➤Severe RoW issues at Loc 12/0,15/5,19/2,22/2,24/0,40/1,41/0,49/2,49/5,52/0,52/1,58/3 and 59/0 in Tehsil Lefripada, Jharsuguda and Lakhanpur in Dist Sundergard and Jharsuguda. PTCC Clearance pending and forest proposal is pending with NO, Bhubaneswar	Action to be taken by SGL/Forest dept.

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**Critical Transmission Projects in Western Region(WR)**

Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/ Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
1	Vadinar-Amreli 400 kV D/C line(balance)	Nov, 09	Dec'18	Associated with Salaya TPS for evacuation of power and its completion would relieve over loading of Hadala-Chorania S/C line. However, interim arrangement with completed portion of Amreli-Vadinar one ckt terminated at Jetpur and second ckt terminated at Hadala relieved loading of Chorania – Kasor.	Gujarat Energy Trans. Corp. Limited (GETCO)	LGH: 239 Ckm TL: 365 nos. FDN: 309 nos. TE: 267 nos. STG: 118 Ckm (117 ckm of line commissioned in Jan 14 through interim arrangement)	Progress affected due to contractual issue with M/s Jyoti and contract has been terminated and retendering under progress.	GETCO may take necessary action
2	Amreli – Kasor 400 kV D/C line.	June'13	Mar'18	It would relieve Chorania - Kasor S/C line.	Gujarat Energy Trans. Corp. Limited (GETCO)	LGH: 460 Ckm TL: 679 nos. FDN: 619 nos. TE: 549 nos. STG: 88 Ckm	Progress affected due to severe row issues and contractual issue with M/s Gaytri	GETCO may take necessary action
3	Mahan-Sipat(Bilaspur) Pooling station 400 kV D/C line	Mar'13	Dec'17	This line is associated with Mahan TPS(2x600MW) of Essar Power for evacuation of power. Presently power is being evacuated through interim connectivity with LILO of 400 kV Korba-V'chal-1.  Bilaspur PS commissioned in Mar'12 and delay of dedicated Mahan-Bilaspur line causing constraints in the transmission system from Korba STPS.	Essar Power Transmission Co. Ltd. (EPTCL)	LGH: 670 Ckm TL: 942 nos. FDN: 938 nos. TE: 909 nos. STG: 394 Ckm	Due to severe RoW issues, local disputes & resistance from farmers the progress has badly hampered. Delay of fund disbursement is also played a major role in delay of project progress.	Distt administration help has been sought to resolve row issues.

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4(a)	Bableshwar-Kudus 400 kV D/C line and associated 220 kV downstream system	Mar'16	Dec'17	Due to delay in commissioning of 400 kV Bableshwar –Kudus D/C line, heavy loading is observed on 400 kV Bableshwar-Padghe line. Further 400 kV Ektuni-Bableshwar only one circuit is kept in service by MSETCL to control the loadings at Bableshwar.	Maharashtra State elect. Transmission Company Ltd. (MSETCL)	LGH: 447 Ckm TL: 708 nos. FDN: 551 nos. TE: 485 nos. STG: 152 Ckm	Progress affected due to involvement of 148 Ha of forest area and severe RoW issues at 39 locs  <b>Forest Clearance issue:</b> Nashik Zone - 32 Ha, 27 locs and Vashi Zone - 116 ha, 60 locs. Proposal pending at Adl. PCCF, Nodal, Nagpur since 15.02.16 <b>Right of ways issue:</b> Nasik Zone- For 39 locs, cases has been filed at Distt. Collector, Pune, order is pending. Vashi Zone- For 27 locs cases is pending at Distt. Collector, Thane.  24 locs of line are falling near GMRT observatory Pune affecting RFI signals and GMRT has objected installation of line near their Antenna(E4-E6), issue is yet to be resolved.	Member(PS) took a meeting on 14.1.2017 to resolve the issue of GMRT. Expert committee members from IIT Mumbai, MSETCL and GMRT and CE(PCD) meeting held on 21.1.2017, recommending to use 765kV tower in place of 400kV tower to raise height as well as clearance and also diversion of line at some locations. MSETCL to take action

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4(b)	2x500MVA, 400/220 kV Kudus S/s	Mar 16	Dec'17			LA: 100% CW: 70% ER: 80% EE: 40%	Progress delayed due to delay of associated 400 kV line	MSETCL to expedite the construction of 220kV downstream system from Kudus S/s
5	Akaltara TPS- Champa pooling station 400 kV 2x D/C line	Jun'15	400 kV D/C line (ckt 3&4) commissioning in Oct 16 and second 400 kV line is anticipated by Dec17	This would complete evacuation system for Akaltara TPS of KSK and resolve the loading NSPCL ICTs and further provide voltage stability at Champa S/s. 765 kV champa bus commissioned in May 15 and 400 kV champa bus in June 15.	KSK Mahanadi Ltd.	TLG: 105 Ckm TL: 64 nos. FDN: 0 nos. TE: 0 nos. STG: 0 Ckm	Fund constraints	Matter is to be taken up with KSK ltd.
6	Salora TPS - Dharamjaigarh 400 kV D/C line	Jul'12	M/s VVL is yet to take up construction of line Dec17	This line would complete the evacuation system of Salora TPS by Vandana vidyut limited. In 40th SCM Meeting: M/s VVL was Not present. As informed by M/s BALCO, work on dedicated line has not yet started. WRLDC filed petition to CERC for disconnection.	Vandana Vidyut Ltd. (VVL)	LGH: 60 Ckm TL: 84 nos. FDN: 0 nos. TE: 0 nos. STG: 0 Ckm M/s VVL is yet to take up construction of line	Project authority has also not been able to execute PPA yet. Target Commissioning date will be provided after approval/receipt of loan from lenders.	Project authority is yet to execute PPA

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7	Padghe – Kudus 400 kV D/C line	Aug'14 Dec'17 (Rev)	Dec'17	System Strengthening in North West part of WR ( transmission beyond Padghe for IPP projects in Chhattisgarh )	Powergrid Corporation of India Limited (PGCIL)	LGH: 32 Ckm TL: 46 nos. FDN: 46 nos. TE: 46 nos. STG: 32 Ckm	Line completed and Commissioning is pending due to delay in readiness of upstream and downstream networks.	MSETCL to complete Kudus SS
8	Aurangabad – Padghe 765 kV D/C Line	Aug,14 Dec'17 (Rev)	Dec'17	Corridor for transfer of power beyond Aurangabad for IPP projects in Chhattisgarh	Powergrid Corporation of India Limited (PGCIL)	LGH: 570 Ckm TL: 773 nos. FDN: 748 nos. TE: 729 nos. STG: 444 Ckm	<p>&gt;<b>Thane</b>: Stiff resistance at 10 no locations and police protection required for executing the work .</p> <p>&gt;Foundation works and stringing works are also severely affected due to delay in assessment of tree compensation by the concerned Taluka Agriculture Officer / Range Forest officer.</p> <p>&gt;<b>Ahmednagar</b>: For 5 locs (2 Km stretch), administrative support and police protection required .</p> <p>&gt;<b>Aurangabad</b> : Continuous support from District Administration with police protection has been sought for completing the</p>	Matter is to be taken up with dist authority, Thane, Ahmednagar and Aurangabad to resolve RoW issues and provide police protection

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TL: Total Location;  
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FDN: Foundation Completed;  
ER: S/s equipment received;

TE: Towers Erected;  
EE: S/s equipment erected

STG: Stringing Completed;



Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
9	Aurangabad – Boisar 400 kV D/C	Jun'14 Sep'17 (Rev)	Sep'17	Corridor for transfer of power beyond Aurangabad for IPP projects in Chhattisgarh )	Powergrid Corporation of India Limited (PGCIL)	LGH: 690 Ckm TL: 860 nos. FDN: 847 nos. TE: 823 nos. STG: 538 Ckm	<p>►Works severely affected in Nasik district due to involvement of Grape Garden and adjoining agriculture areas under Dindori and Niphad talukas affecting approx. 30 km (58 locs) of the line.</p> <p>►Matter taken up with distt authority and works started from July'16, pending finalization of compensation for Grape Garden. Compensation assessment to land owners in Grape Garden [30 Km] being progressively made based on rates as decided by Distt. Agri Dept. during Nov./Dec'16 at cultivator's risk &amp; profits". Land owners objecting to 30% deduction of value. During a meeting on Oct16 in DC office, it was decided that amount towards 30% deduction be paid to farmers along with compensation assessed.</p>	PGCIL requested DC, Nasik to consider demand of farmers in the interest of completion of line. After intervention by Dist. Authorities, works are progressing.

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Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
10	Wardha-Aurangabad 400 kV D/C line (upgraded to 1200 kV)	Oct'12 Feb'18 (Rev)	Feb'18	Regional Strengthening in WR associated with Mundra UMPP	Powergrid Corporation of India Limited (PGCIL)	LGH: 696 Ckm TL: 961 nos. FDN: 946 nos. TE: 900 nos. STG: 480 Ckm	<p>➤ROW constraints are being faced in Aurangabad, Jalna, Buldhana &amp; Washim Districts in carrying out the balance works.</p> <p>➤<b>Wardha District</b> : Balance work in 8 locs, 7 km under Wardha is affected due to strong resistance by local villagers.</p> <p>➤<b>Washim District</b> : Work in 2 locs (33/0 &amp; 39/0), 2 km is severely affected due to strong resistance by land owners even after issuance of high court order. Work in loc 39/0 expected to start from 26/12/16 after punchnama</p>	DC, Wardha, Washim, Buldhana, Aurangabad and Jalna has issued order. Police protection is needed from Malegaon PS, Biwi PS, Badanapur & Chandan Zira PS and Karmad PS is required for commencement of work. Badanapur and Aurangabad Agriculture department help is required for carrying out spot inspection of fruit bearing trees before commencement of work at certain locations.

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							<p>➤Matter taken up with Principal Secretary, Energy, GoM on 16.09.16 and with Chief Secretary, GoM on 01.01.2016 for early resolution.</p> <p>➤Support from District Administration sought for completing balance works of the line.</p> <p>➤Contract terminated 01 out of 02 nos. due to unsatisfactory performance and fresh tender taken up. The package has been Bifurcated into two package 01 pkg. awarded in Dec'14 and second pkg. in Feb'15. Remaning 01 pkg. also terminated in Aug'15 due to poor performance. However, contract was revived in Feb'16. Severe ROW being encountered.</p>	
11	Mauda St-II – Betul 400 kV D/C line	May'16 May'17 (Rev)	May'17	Required for evacuation of power from Mauda St-II TPP	Powergrid Corporation of India Limited (PGCIL)	LGH: 386 Ckm TL: 551 nos. FDN: 528 nos. TE: 527 nos. STG: 346 Ckm	Continuation of remaining works [Fdn-23 Locn., TE-24 Locn., Stg-25 Km] severely affected due to ROW in Saoner Tehsil, Nagpur Distt. Strong resistance being faced from land owners with involvement of local leaders.	Matter taken up with DC, Nagpur & State Govt. Police support in Saoner Tehsil asked for completing the works.

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Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
12	LILO of Lonikhand (MSETCL) – Kalwa (MSETCL) 400 kV line at Navi Mumbai	Sep'10 Dec'17 (Rev)	May'17	For drawl of power for feeding loads in and around Navi Mumbai area	Powergrid Corporation of India Limited (PGCIL)	LGH: 16 Ckm TL: 25 nos. FDN: 25 nos. TE: 25 nos. STG: 16 Ckm Underground Cable : 0.9/1.8 km	➤Severe ROW issue is being faced in Newade village, Raigarh Dist., Maharashtra. Work was resumed in Nov'16 after land got dried up from flooded water in Oct'16 due to heavy rains. However, work was stopped by the villagers on account of non-clarity on the issue of Gram Devi land (Government land for the common usage of village). The modality for deposition of amount as compensation towards Gram Devi land needs to be decided by State Govt and villagers. After intervention of the DC, Raigad the work was planned to be started in Nov' 16, but on 9.12.16, miscreants burnt approx. 840 meter (7x120 meter) of 400 kV Cable at Nevade Village, near Panvel. This has resulted in loss of ample time and public money to the tune of Rs 2 Crs approx.	➤ Police protection/administrative support is requested to complete balance cable trench work. ➤Downstream network is to be implemented by MSETCL

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Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/ Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
13	BECL (Padva) - Botad 220kV D/C line	Mar'17	Aug'17	Three 220kV line had been planned for evacuation of power from Bhavnagara Padva generation project. Out of 3, 220kV D/C lines, 2 lines has already been commissioned and completion of 3 <sup>rd</sup> line is pending due to severe RoW issue in Botad area. This Line is also required for evacuation of power from BECL (Padva)- 2X250 MW in Gujarat state.	GETCO	LGH: 188 Ckm TL: 292 nos. FDN: 169 nos. TE: 115 nos. STG: 0 Ckm	➤Severe RoW problems in Botad area.	Action to be taken by GETCO.
14	Lara STPS – Champa pooling Station 400kV D/C line (Q)	Apr'16	Apr'17	This line is part of Lara STPP-I (2X800MW) and is required for evacuation of power from Lara STPS.	Powergrid Corporation of India Limited (PGCIL)	LGH: 224 Ckm TL: 306 nos. FDN: 296 nos. TE: 290 nos. STG: 198 Ckm	➤Slow Progress. Works affected due to ROW constraints.	Action to be taken by PGCIL.
15	Mundra (Adani) - Zerda 400kV D/C line 1	Mar'17	Mar'18	This transmission line is part of ATS of Mundra TPP Ph.II (2x660MW), out of two no. 400kV D/C lines, one has already been completed. The line is required to meet the N-1 criteria for the project.	GETCO	LGH: 640 Ckm TL: 997 nos. FDN: 453 nos. TE: 275 nos. STG: 0 Ckm	➤Progress has been affected due to severe RoW problem at 100 locations under package-1 and 50 locations under package-2, & 50 locations under package-3. The executive agency is Tata, L&T, KPTL. ➤Forest clearance for 100Ha of forest area involving 50 locations is pending.	GETCO to take up with the concerned authorities to resolve the RoW issue and expedite the forest clearance.

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 LA: Land Acquisition      CW: Civil works completed;      ER: S/s equipment received;      EE: S/s equipment erected



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16	Sholapur STPP - Sholapur 400kV D/C line-II	Mar'17	May'17	This transmission line is part of ATS of Sholapur TPP (2x660 MW), out of two no. lines one has already been completed. This line is required to meet the N-1 criteria for the project.	Powergrid Corporation of India Limited (PGCIL)	LGH: 25 Ckm TL: 40 nos. FDN: 30 nos. TE: 29 nos. STG: 13 Ckm	Severe ROW faced in Implementation of this project. Presently construction work in nearly 10 Locs is hindered due to ROW problem for which application has been filed under section 16 for 8 locations. Order is awaited. One location is in Railway land and one location is to be completed under police protection.	PGCIL to take up with the concerned authorities to resolve the RoW issue.
17	LILO of Jamnagar - Jetpur 220kV D/C line-II at Sikka	Aug'15	Jun'17	This transmission line is part of ATS of Sikka TPP Extn, (2x250 MW),	GETCO	LGH: 120 Ckm TL: 189 nos. FDN: 171 nos. TE: 166 nos. STG: 56 Ckm	Case of 6 locations is pending in district court	GETCO to take up with the concerned authorities to resolve the RoW issue.

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**Critical Transmission Projects in Southern Region(SR)**

Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/ Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
1	Edamon-Muvattupuzha (Cochin) 400kV D/C line	Nov'08 Sep'18 (Rev)	Sep'18	>220kV North - South corridor of Kerala. >It is also a part of ATS of Kundakulam APP (2x1000MW)	Powergrid Corporation of India Limited (PGCIL)	LGH: 297 Ckm TL: 438 nos. FDN: 159 nos. TE: 105 nos. STG: 29 Ckm	>ROW issues in Dist. Kollam, Pathanamthitta, Kottayam and Ernakulam.	Line corridor marking and enumeration of trees etc. is in progress by Revenue Department Package retendered and fresh award placed in March'17 for balance work.
2	Kanarapatty-Kayathar 400kV D/C line	Mar'15	Jun'17	Associated with Stage-1 Wind evacuation system of TNEB and delay causing congestion on 400/230kV Tirunelveli ICTs, Kayathar-Tirunelveli 230kV line, Udayathur-Tirunelveli 230kV line, Veerannam-Tirunelveli 230kV line etc.	Tamilnadu Transmission Corporation Ltd. (Tantransco)	LGH: 24 Ckm TL: 39 nos. FDN: 36 nos. TE: 33 nos. STG: 18 Ckm	Work held up due to ROW issue at locs no. 15/3,15/4 and 15/6.	Meeting held on 29.06.16 with DC/ Tuticorin. and it was decided to give compensation to land owners based on the rates fixed by Ag. Dept.

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3	Madhugiri (tumkur)-Yelhanka 400kV D/C line	Jun'14 Mar'18 (Rev)	Mar'18	Constraints on Import of power from New grid to SR through Raichur-Sholapur 765kV D/C line.	Powergrid Corporation of India Limited (PGCIL)	LGH: 132 Ckm TL: 178 nos. FDN: 131 nos. TE: 101 nos. STG: 0 Ckm	<p>➤ Severe RoW issues at 46 locs( Tumkur -1, Bangalore Urban - 10, Bangalore Rural- 35) and also obstruction from activists of 'Karnataka Raithu Sangha.</p> <p>➤ <i>Construction agency has demobilised from site due to continued idling arising out of ROW situations and therefore the package is now retendered for fresh award.</i></p>	Concerned DC's yet to issue orders for compensation based on MoP guidelines
4	Somnahally-Dharmapuri (Salem) 400kV D/C line	Aug'14 Dec'17 (Rev)	Dec'17	Congestion on S1-S2 Corridor	Powergrid Corporation of India Limited (PGCIL)	LGH: 244 Ckm TL: 335 nos. FDN: 323 nos. TE: 286 nos. STG: 171 Ckm	<p>➤ Severe ROW issues at 12 locs(34 km) in Bangalore (Urban) District.</p> <p>➤ 31km Survey work needs to be completed by District Revenue Dept.</p>	<p>➤ Police protection required at Loc: 123/0, as farmers demanding diversion of the line.</p> <p>DC (B'lore Urban) order for compensation for Loc: MC8 to 127E/0 is still awaited.</p>

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Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/ Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
5.a	Salem(Dharmapuri) – Madhugiri (Tumkur) 765kV S/C line	Sep'14 Dec'15 (Rev)	Mar'18	Congestion on S1-S2 Corridor. This transmission line is part of ATS of Cuddalore TPS (2x600MW), out of three no. lines two has already been completed.	Powergrid Corporation of India Limited (PGCIL)	LGH: 219 Ckm TL: 575 nos. FDN: 540 nos. TE: 497 nos. STG: 79 Ckm	<ul style="list-style-type: none"> <li>➤ Severe row issue at 12 locs (Fdn: 04 nos., TE: 08 nos.) and 90 ckm Stringing in Districts - <b>Chikkaballapur</b> [01 Fdn.] and <b>Bangalore (Rural)</b>- [ 3 Fdn; 04 Ern]</li> <li>➤ At Loc: 37/0, the land owners are asking for diversion of the route.</li> <li>➤ Land owners are frequently stopping the work for enhanced compensation.</li> </ul>	<ul style="list-style-type: none"> <li>➤ DC, (B'lore Rural) may provide dedicated revenue surveyors for expediting the work.</li> <li>➤ Police protection needed for continuous progress of the work.</li> </ul>
5.b	Salem pooling station – Madhugiri pooling station 765kV S/C line	Sep'14 Jun'17 (Rev)	Jun'17	This transmission line is part of ATS of Mutiara (Melamaruthur) (Coastal Energen) TPP (2x600 MW).		LGH: 245 Ckm TL: 644 nos. FDN: 644 nos. TE: 638 nos. STG: 182 Ckm		

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6	LILO of Neelmangla-Hoddy 400kV S/C line at Yelankha	Jun'12	Dec'17	System strengthening SR Grid and supply of power to Bangalore area.	Powergrid Corporation of India Limited (PGCIL)	LGH: 34 Ckm TL: 25 nos. FDN: 25 nos. TE: 25 nos. STG: 10 Ckm	<ul style="list-style-type: none"> <li>➤4km stringing stretch is held up due to ROW constraints in Bangalore (Urban) District</li> <li>➤Land owners filed writ petition in High court of Karnataka.</li> <li>➤During meeting taken by Energy Minister on 17.11.2016 the farmers have agreed to compensation for 46m corridor as per MOP guidelines and agreed to withdraw the case filed in High court and district courts.</li> <li>➤Revenue survey to quantify the compensation assessment is under progress.</li> </ul>	Police protection is required for completion of line

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7.a	LILO of Chillakallu-Narketpally 220kV D/C line at Huzur nagar.	Mar'17	May'17	Line is required for evacuation of power from pulichintala HEP 4X30MW in Telangana state. 2 units has already been commissioned & power is being evacuated through pulichintala-Huzur nagar 220kV D/C line terminated temporarily at Sitapuram.	TSTRANSCO	LGH: 24 Ckm TL: 42 nos. FDN: 42 nos. TE: 42 nos. STG: 22 Ckm	➤The progress of line delayed due to slow progress of associated S/s.	TSTRANSCO is required to expedite the construction of Huzur nagar S/s.
7.b	2X100 MVA, 220/132kV, Huzur nagar S/s.	Mar'17 (Rev)	May'17			LA: 100% CW: 90% ER: 90% EE: 90%		
8.a	Singareni – Nirmal 400kV D/C line	Dec'16	Jun'17	Line is required for evacuation of power from Singareni Collieries Generation Project (2x 600 MW) in Telangana state. Out of two line one line is already commissioned. This line is required to meet the N-1 criteria.	TSTRANSCO	LGH: 298 Ckm TL: nos. FDN: nos. TE: nos. STG: 174 Ckm	➤Delay in award of work:Work awarded to L&T/KEC in 9/2015 with completion period of 15 months	TSTRANSCO is required to expedite the construction of line
8.b	2X315 MVA, 400/220kV, Nirmal S/s.	Dec'16	Jun'17			LA: 100% CW: 27% ER: 11% EE: 2%		

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9.a	Yermarus TPS - Bellary Pooling Station 400kV D/C line	Aug'17	Aug'17	Generating unit of Yermarus TPS has been commissioned and power is being evacuated through an interim arrangement i.e. LILO of RTPS-BTPS 400kV line at YTPS and 2 <sup>nd</sup> unit is ready for commissioning. Due to the transmission constraints the power is getting bottled up and back down of generation at BTPS & RTPS is being done to avoid congestion in the transmission corridor during evacuation of power from YTPS. For smooth evacuation of power the associated transmission system is needed at the earliest.	KPTCL/JSW	LGH: 284 Ckm TL: 399 nos. FDN: 375 nos. TE: 329 nos. STG: 134 Ckm	➤RoW issue.	KPTCL may resolve the RoW issue involved to complete work within target.
9.b	Bellary (PS) – New Madhugiri (Tumkur) 400kV D/C line	Dec'16	Apr'17			LGH: 450 Ckm TL: 520 nos. FDN: 520 nos. TE: 520 nos. STG: 450 Ckm	➤RoW issue. ➤Work completed.	
9.c	400kV, Bellary switching station.	Dec'16	Apr'17			LA: 100% CW: 100% ER: 100% EE: 100%	➤testing under progress	
10	Nizamabad - Yeddumailaram (Shankarpalli) 400kV D/C line.	Jun'18	May'17	Enhances the import capability of southern region.	Powergrid Corporation of India Limited (PGCIL)	LGH: 277 Ckm TL: 364 nos. FDN: 357 nos. TE: 327 nos. STG: 162 Ckm	➤PTCC Clearance pending with CEA (PTCC). Facing Severe RoW Issue at Location no. 29/0, 29/1, 29/4 29/9, 35A/0, 40/0, 41/0, 48/0, 48B/0, 51/0 in Tehsil Kulcharam, Kandi, Sangareddy, Shankarpalli and District Medak, Sangareddy, Rangareddy	

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**Critical Transmission Projects in North Eastern Region(NER)**

Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
1	Silchar - Melriat (PG) 400 kV D/C lines (Charged at 132 kV)	Dec'12 Feb'18 (Rev)	Feb'18	400/132 kV, 125 MVA ICTs at Palatana under 100 MW power supply to Bangladesh & high demand of Tripura.	Powergrid Corporation of India Limited (PGCIL)	LGH: 288 Ckm TL: 456 nos. FDN: 416 nos. TE: 324 nos. STG: 137 Ckm	Major portion of line is in forest. severe ROW in vicinity of Aizawl town due to stiff resistance from influential local owner. package re-awarded in Jun'16.	PGCIL to expedite work
2	Legship – New Melli 220 kV D/C line	Nov'16	May'17	Essential for synchronization and evacuation of power from Tashiding HEP	Powergrid Corporation of India Limited (PGCIL)/Govt of Sikkim	LGH: 20.6 Ckm TL: 35 nos. FDN: 13 nos. TE: 7 nos. STG: 0.146 Ckm	Work affected due to delay in finalization of land compensation for tower footing and crop compensation.  NOC for 4 locn. held up due to objection by land owners. State Govt. being requested to provide assistance.	CEA had taken review meeting in NoV/Dec16 and suggested KEC/PGCIL to mobilize more erection gangs and PGCIL to take up matter with concerned DC for early assessment of compensation and clear the locs.

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3	Teesta III – Kishanganj 400 kV D/C  &  LILO of Teesta-III – Kishanganj 400kV D/C line at Rangpo.	Feb'13	May'17	Hydro projects [ Teesta III (1200MW), Tasheding (96MW), Dikchu (96MW), Teesta-V (450MW), Jorthang HEP (110MW), Chujachen HEP (110MW) ] in Sikkim may face evacuation constraints in absence of Rangpo – Kishanganj section of line	Teesta Valley Transmission Company (JV of POWERGRID)	LGH: 430 Ckm TL: 591 nos. FDN: 501 nos. TE: 458 nos. STG: 248 Ckm ( Loop in portion of LILO line upto Rangpo completed but LO portion work yet to be started.)	Slow progress by project authority as well as row issues affected progress	Matter has been taken up with the state govt and a committee headed by District Commissioner is working on resolution of these issues and the portions of site area are being cleared one by one.
4	Bongaigaon TPS – Rangia 220kV D/C line	Jan'13	Jun'17	One 400kV, two 220kV and one 132 kV line had been planned for evacuation of power from Bongaigaon TPS. Out of 4 lines 2 lines (400kV, 220kV) has been commissioned and balance 2 nos. transmission lines are pending. These lines would be required for evacuation of full power from Bongaigaon TPS. Out of 3 generating units one has been commissioned and balance two are scheduled to complete by May'17	AEGCL	LGH: 326 Ckm TL: 517 nos. FDN: 512 nos. TE: 510 nos. STG: 211 Ckm	➤ Severe RoW issue affected the progress of both lines.	Action to be taken by AEGCL

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5	Dikchu HEP- Dikchu pool 132kV D/C line.	Jan'17	May'19	This Line is required to evacuate power from Dikchu HEP (2x48MW), in absence of this line the power from Dikchu HEP would be evacuated through interim arrangement of LILO of Teesta III-Rangpo 400kV line at Dikchu.	SKPPL	Work yet to be awarded by the generation company. <b>The interim 400 kV LILO line has been completed</b>	➤Dikchu pooling station and connecting downstream network is covered under comprehensive T&D scheme being constructed by PGCIL. The land for Dikchu pooling station is yet to be acquired by PGCIL.	PGCIL and Power Dept. Sikkim.
6	LILO of Ranganadi - Nirjuli 132kV S/C line at Pare HEP	Aug'12	May'17	This Line is required to evacuate power from Pare HEP (2x55MW), Out of two LILO lines one has been completed. But second line would be needed for full power evacuation.	Powergrid Corporation of India Limited (PGCIL)	LGH: 3 Ckm TL: 10 nos. FDN: 10 nos. TE: 8 nos. STG: 1 Ckm	➤Compliance of compensatory afforestation condition etc. is pending at PGCIL. ➤8 towers of Ranganadi-Nirjuli line require shifting because of their submergence in the Pare HEP Dam.	Action to be taken by PGCIL.

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## Critical Transmission Projects in Inter-Regional (IR)

Sr. No.	Transmission Corridor	Scheduled Commissioning Date	Actual/ Likely Commissioning Date	Transmission Constraint Caused	Executing Agency	Progress	Reason for delay and detail of issues	Action required/Remedial measures taken
1	Jabalpur PS – Orai 765kV D/C line	Apr'18	Apr'18	This would enhance the transfer capability & reliability to NR.	Powergrid Corporation of India Limited (PGCIL)	LGH: 721 Ckm TL: 969 nos. FDN: 922 nos. TE: 888 nos. STG: 485 Ckm	NIL	Efforts are being made to complete earlier.

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FDN: Foundation Completed;

TE: Towers Erected;

STG: Stringing Completed;

LA: Land Acquisition

CW: Civil works completed;

ER: S/s equipment received;

EE: S/s equipment erected



## Annexure-3.1

**Commissioned/ready for commission 765 kV Transmission Lines and substation at the end of 12<sup>th</sup> Plan**

<b><u>Details of 765 KV Transmission Lines</u></b>				<b><u>Details of 765 KV Substations</u></b>					
<b>CENTRAL SECTOR</b>				<b>CENTRAL SECTOR</b>					
1	Kishenpur - Moga (W)	S/C	275 CKm	1	Seoni(Aug.)	765/400	KV	1500	MVA
2	Kishenpur - Moga (E)	S/C	287 CKm	2	Seoni New (3x500)	765/400	KV	1500	MVA
3	Tehri-Meerut (Line-I)	S/C	186 CKm	3	Seoni Extn. (3x500)	765/400	KV	1500	MVA
4	Tehri-Meerut (Line-II)	S/C	184 CKm	4	Lucknow (New).	765/400	KV	1500	MVA
5	Agra - Gwalior - I	S/C	128 CKm	5	Balia (New.)	765/400	KV	1500	MVA
6	Bina - Gwalior	S/C	235 CKm	6	Balia (ICT-II)	765/400	KV	1500	MVA
7	Sipat - Seoni Line-I	S/C	351 CKm	7	Lucknow (ICT-II)	765/400	KV	1500	MVA
8	Sipat - Seoni line-II	S/C	354 CKm	8	Wardha	765/400	KV	3000	MVA
9	Agra - Gwalior S/C line-II	S/C	128 CKm	9	Fatehpur	765/400	KV	3000	MVA
10	Seoni - Wardha line	S/C	269 CKm	10	Gaya	765/400	KV	3000	MVA
11	Bina (PG) -Gwalior (PG) S/C line-II	S/C	233 CKm	11	WR Pool Stn near Sipat	765/400	KV	3000	MVA
12	Seoni - Bina	S/C	293 CKm	12	Wardha(ICT-III)	765/400	KV	1500	MVA
13	LILO of Tehri -Meerut 765 kV D/C line at Tehri PS	D/C	8 CKm	13	Pune (GIS)	765/400	KV	3000	MVA
14	LILO of Tehri - Meerut at Tehri PS	2xD/C	13 CKm	14	Kanpur (GIS)	765/400	KV	3000	MVA
15	Gaya -Balia( Part Line)	S/C	69 CKm	15	Champa PS(ICT-III & IV)	765/400	KV	3000	MVA
16	Satna - Bina line -I	S/C	274 CKm	16	Champa PS (ICT-V&VI)	765/400	KV	3000	MVA
17	Seoni (PG) --Wardha(PG) S/C line-2	S/C	261 CKm	17	Vemagiri P S (ICT-1)	765/400	KV	1500	MVA
18	Balia-Lucknow	S/C	320 CKm	18	Raigarh (Extn)	765/400	KV	1500	MVA
19	Gaya - Balia (Balance Part)	S/C	159 CKm	19	Nizamabad (ICT-I)	765/400	KV	1500	MVA
20	Bina - Indore	S/C	311 CKm	20	Raipur (Extn.)	765/400	KV	1500	MVA
21	Gaya - Sasaram	S/C	148 CKm	21	Vemagiri PS (ICT-II )	765/400	KV	1500	MVA
22	LILO of Sipat - Seoni at WR pooling point (Bilaspur) (2nd Ckt)	S/C	8 CKm	22	Angul (ICT-II)	765/400	KV	1500	MVA
23	LILO of Sipat - Seoni at WR pooling point (Bilaspur) (2nd Ckt)	S/C	8 CKm	23	Bareilly (ICT-I)	765/400	KV	1500	MVA
24	Sasaram - Fatehpur line-I	S/C	337 CKm	24	Thiruvallam	765/400	KV	1500	MVA
25	Gaya - Varanasi	S/C	273 CKm	25	Angul (ICT-III)	765/400	KV	1500	MVA
26	Kanpur - Jhatikara	S/C	466 CKm	26	Champa PS(ICT-I)	765/400	KV	1500	MVA
27	Varanasi - Kanpur	D/C	652 CKm	27	Vadodara S/S	765/400	KV	3000	MVA
28	Jaipur (RVPNL) - Bhiwani line-II	S/C	277 CKm	28	Vindhyachal Pooling Station (ICT-II)	765/400	KV	1500	MVA
29	Srikakulam PP - Vemagiri - II PS (PVTL)	D/C	668 CKm	29	Angul S/S (ICT-IV)	765/400	KV	1500	MVA
30	Nagapattinam PS - Salem (PNMTL)	D/C	406 CKm	30	Champa PS(ICT-II)	765/400	KV	1500	MVA





31	Tuticorin PS - Salem PS	D/C	731	CKm	31	Varanasi (GIS) S/S	765/400	KV	3000	MVA
32	Srikakulam PS - Angul line	D/C	552	CKm	32	Dharamjaygarh PS	765/400	KV	1500	MVA
33	LILO of existing Seoni-Bina at Gadawara STPP	D/C	16	CKm	33	Kurnool S/S	765/400	KV	3000	MVA
34	Raipur PS - Wardha line -II	D/C	714	CKm	34	Aurangabad ICT-II	765/400	KV	1500	MVA
35	Wardha - Nizamabad line (Part of Wardha - Hyderabad line)	D/C	576	CKm	35	DharamjaygarhPS(ICT-II)	765/400	KV	1500	MVA
36	Sasan - Vindhyachal (PS)	S/C	6	CKm	36	Jharsuguda PS	765/400	KV	1500	MVA
37	Meerut - Moga line	S/C	337	CKm	37	Jharsuguda (2nd ICT)	765/400	KV	1500	MVA
38	Raigarh PS (Near Kotra) - Champa Pooling Station line	S/C	96	CKm	38	Nellore I & II	765/400	KV	3000	MVA
39	Gwalior - Jaipur (Ckt -I)	S/C	305	CKm	39	Sholapur GIS	765/400	KV	3000	MVA
40	Gwalior - Jaipur line (Ckt-II)	S/C	311	CKm	40	Angul PS (4x1500MVA)	765/400	KV	1500	MVA
41	Jaipur - Bhiwani line	S/C	272	CKm	41	Bareilly (ICT-II)	765/400	KV	1500	MVA
42	Rihand - Vindhyachal PS (Ckt-II)	D/C	31	CKm	42	Thiruvalem S/S (2x1500)	765/400	KV	1500	MVA
43	Vindhyachal PS - Satna (Ckt-II)	S/C	271	CKm	43	Vindhyachal PS(ICT-I)	765/400	KV	1500	MVA
44	Aurangabad - Solapur line	D/C	556	CKm	44	Meerut S/S	765/400	KV	3000	MVA
45	Dharamjaygarh - Jabalpur PS line	D/C	848	CKm	45	Sasaram (ICT-I)	765/400	KV	1500	MVA
46	Narendra (New Kudgi) - Kolhapur (new)	D/C	374	CKm	46	Indore (ICT-I)	765/400	KV	1500	MVA
47	Kurnool (New) - Raichur line	D/C	120	CKm	47	Indore (ICT-II)	765/400	KV	1500	MVA
48	Ranchi (New) - Dharamjaygarh /Near Korba	S/C	341	CKm	48	Raigarh Pooling Station (Kotra)	765/400	KV	4500	MVA
49	Angul PS - Jharsuguda PS line-II	S/C	284	CKm	49	Raigarh PS(Near Tamnar)(ICT-I)	765/400	KV	1500	MVA
50	Balia - Varanasi	S/C	165	CKm	50	Raigarh Pooling Station (Near Tamnar)(ICT-II)	765/400	KV	1500	MVA
51	LILO of Gaya - Fatehpur at Varanasi line	S/C	7	CKm	51	Raichur S/S (ICT-I)	765/400	KV	1500	MVA
52	Bina - Gwalior line (Ckt-III)	S/C	231	CKm	52	Raichur S/S (ICT-II)	765/400	KV	1500	MVA
53	Champa PS - Dharamjaygarh / Near Korba line	S/C	62	CKm	53	Raipur PS	765/400	KV	1500	MVA
54	Champa PS - Raipur PS line	D/C	298	CKm	54	Solapur S/S	765/400	KV	3000	MVA
55	Indore - Vadodara	S/C	320	CKm	55	Raigarh PS(Near Tamnar) (ICT-III)	765/400	KV	1500	MVA
56	Kurnool - Raichur (Ckt-II)	S/C	118	CKm	56	Raigarh(Kotra) PS (ICT-IV)	765/400	KV	1500	MVA
57	Rihand - Vindhyachal PS(Ckt-I)	S/C	31	CKm	57	Jabalpur PS(ICT-II)	765/400	KV	1500	MVA
58	Jharsuguda PS - Dharamjaygarh	D/C	300	CKm	58	Ranchi	765/400	KV	3000	MVA
59	Wardha - Aurangabad-I	D/C	690	CKm	59	Agra Aug.	765/400	KV	1500	MVA
60	Satna - Gwalior line Ckt-II	D/C+S/C	300	CKm	60	Bhiwani	765/400	KV	1000	MVA
61	Kurnool - Nellore	D/C	602	CKm	61	Gaya (ICT-III)	765/400	KV	1500	MVA
62	Kurnool - Thiruvalem line	D/C	710	CKm	62	Moga (Aug.)	765/400	KV	1500	MVA
63	Raipur PS - Wardha line	D/C	736	CKm	63	Satna (ICT-I)	765/400	KV	1000	MVA
64	Sholapur - Pune	S/C	268	CKm	64	WR PS near Sipat(Bilaspur) (ICT-III)	765/400	KV	1500	MVA



65	Angul PS - Jharsuguda PS line-I	S/C	274	CKm	65	Agra (ICT-II)	765/400	KV	1500	MVA
66	Vindhyachal PS - Satna line Ckt-I	D/C+S/C	271	CKm	66	Bina. S/S	765/400	KV	1000	MVA
67	Wardha - Aurangabad -II	D/C	701	CKm	67	Moga (ICT-II)	765/400	KV	1500	MVA
68	Agra - Jhatikara	S/C	252	CKm	68	Satna (ICT-II)	765/400	KV	1000	MVA
69	Sasan - Satna line -II	S/C	242	CKm	69	Bhiwani(ICT -II)	765/400	KV	1000	MVA
70	Meerut - Agra	S/C	268	CKm	70	Jhatikara	765/400	KV	6000	MVA
71	Sasaram - Fatehpur line-II	S/C	355	CKm	71	Bina (ICT-II)	765/400	KV	1000	MVA
72	Fatehpur- Agra line-II	S/C	334	CKm	72	Gwalior	765/400	KV	3000	MVA
73	Raigarh PS (Near Kotra) - Raigarh PS ( Near Tammar) line	D/C	98	CKm	<b>STATE SECTOR</b>					
74	Jabalpur PS - Bina line	D/C	459	CKm	73	Unnao	765/400	KV	1000	MVA
75	Raichur - Sholapur	S/C	208	CKm	74	Aurangabad III (Ektuni)(ICT-I)	765/400	KV	1500	MVA
76	Meerut - Bhiwani line	S/C	174	CKm	75	Agra (UP)(ICT-I) (Fatehabad)	765/400	KV	1500	MVA
77	Raigarh PS (Near Kotra) - Raipur PS line	D/C	480	CKm	76	Agra (UP) (ICT-II) (Fatehabad)	765/400	KV	1500	MVA
78	Satna - Gwalior line (Ckt-I)	S/C	337	CKm	77	Aurangabad - III (Ektuni)	765/400	KV	1500	MVA
79	LILO of Ranchi - WR PS at Dharamjaygarh / near Korba.	D/C	10	CKm	78	Anpara D	765/400	KV	1000	MVA
80	Lucknow - Bareilly line	S/C	252	CKm	79	Anta PS	765/400	KV	3000	MVA
81	Ranchi - WR Pooling Station	S/C	381	CKm	80	Phagi (2x1500 )	765/400	KV	3000	MVA
82	Bhiwani - Moga	S/C	273	CKm	81	Unnao (Ph -II) (ICT-II)	765/400	KV	1000	MVA
83	Fatehpur- Agra Line I	S/C	334	CKm	<b>PRIVATE SECTOR</b>					
84	Satna - Bina line -II	S/C	276	CKm	82	Greater Noida (ICT-II)	765/400	KV	1500	MVA
85	Jhatikara - Bhiwani	S/C	85	CKm	83	Mainpuri S/S (ICT-I)	765/400	KV	1000	MVA
86	Sasan - Satna line -I	S/C	241	CKm	84	Bhopal(2x1500)	765/400	KV	3000	MVA
<b>STATE SECTOR</b>					85	Dhule(2x1500)	765/400	KV	3000	MVA
87	Anpara - Unnao	S/C	409	CKm	86	Koradi - III	765/400	KV	3000	MVA
88	Shifting of 765 kV Anpara-Unnao at Unnao	S/C	1	CKm	87	Akola -II	765/400	KV	1500	MVA
89	Shifting of Anpara B-Unnao termination point from Anpara B to Anpara C sw. yard.	S/C	1	CKm	88	Tiroda	765/400	KV	1500	MVA
90	Lalitpur TPS - Agra (UP) Ckt-I	S/C	337	CKm						
91	Anpara C - Anpara D	S/C	3	CKm						
92	Anta - Phagi Ckt-II	S/C	214	CKm						
93	Anta - Phagi Ckt-I	S/C	212	CKm						
<b>PRIVATE SECTOR</b>										
94	LILO of Agra - Meerut line at Greater Noida	2xS/C	11	CKm						
95	Mainpuri-Greater Noida	S/C	181	CKm						
96	Narendra (New) - Madhugiri (KTL )	D/C	758	CKm						



97	Mainpuri - Bara Ckt-II	S/C	377	CKm
98	Jabalpur - Bhopal (BDTCL)	S/C	274	CKm
99	Jabalpur - Bina (JTCL)	S/C	245	CKm
100	Dhramjaygarh - Jabalpur (JTCL)	D/C	758	CKm
101	Raichur - Sholapur line	S/C	208	CKm
102	Akola - Aurangabad line ckt-I	S/C	219	CKm
103	Aurangabad - Dhule (BDTCL)	S/C	192	CKm
104	Bhopal - Indore (BDTCL)	S/C	176	CKm
105	Dhule - Vadodara (BDTCL)	S/C	263	CKm
106	Tiroda - Koradi - Akola - Aurangabad line ckt-II	S/C	575	CKm
107	Tiroda - Akola-I	S/C	361	CKm



## Annexure-4.0

**INTER-REGIONAL TRANSMISSION LINKS & CAPACITY (MW) PLANNED  
FOR YEAR 2017-22**

<b>Region / Transmission Link</b>	<b>CAPACITY (MW)</b>	<b>Expected Completion Date</b>
<b>EAST-NORTH</b>		
LILO of Biswanath Chariali - Agra +/- 800 kV, 3000 MW HVDC Bi-pole at new pooling station in Alipurduar and addition of second 3000 MW module at Agra (Pole-4)	1,500	Sep'17
<b>Sub-total</b>	<b>1,500</b>	
<b>EAST-WEST</b>		
Jharsuguda-Dharamjaygarh 765kV 2nd D/c line	4,200	Mar'18
Jharsuguda- Raipur 765kV D/c line	4,200	Aug'19
<b>Sub-total</b>	<b>8,400</b>	
<b>WEST- NORTH</b>		
Champa Pool- Kurukshetra HVDC Bipole (Pole 2)	1,500	Jun'17
Upgradation of Champa Pool- Kurukshetra HVDC Bipole (Pole 3&4)	3,000	Jun'18
Jabalpur - Orai 765kV D/c line	4,200	Mar'18
LILO of Satna - Gwalior 765kV S/c line at Orai	4,200	Mar'18
Banaskantha-Chittorgarh 765kV D/c line	4,200	Mar'18
Vindhyachal-Varanasi 765kV D/c line	4,200	Dec'21
<b>Sub-total</b>	<b>21,300</b>	
<b>WEST- SOUTH</b>		
Warora Pool - Warangal (New) 765kV D/c line	4,200	Nov'19
+/- 800 KV Raigarh-Pugulur HVDC Bipole link	6,000	Nov'19
LILO of Narendra-Narendra(New) 400kV (quad) line at Xeldam (Goa)	1,600	Jul'21
<b>Sub-total</b>	<b>11,800</b>	
<b>TOTAL (CUMULATIVE)</b>	<b>43,000</b>	



## Annexure-5.0

**Transmission system associated with Generation Projects commissioned during 12<sup>th</sup> Plan**

Generation Projects/Associated Transmission System		Executing Agency	Ckts (S/C) & (D/C)	Voltage Level (KV)	Ckm/ MVA	Anticipated Completion/ Commissioning Date
<b>Adhunik Power TPP (Mahadev Prasad TPP) (2x270 MW), PS,Jhk, APCL.U1-11/12(C),U2-3/13 (C)</b>						
1	Adhunik - Jamshedupur (PG) (Padampur)	ADHUNIK	D/C	400	1	Jul-12
<b>Agartala (AGTP) (2x25.5 MW), CS NEEPCO, Tripura,ST-I, 08/16 (C),ST-2,3/15(C)</b>						
1	AGTP - Agartala line	TSECL	D/C	132	16	Feb-15
2	AGTP - Kumarghat line	TSECL	S/C	132	102	Feb-15
<b>Akaltara(Naiyara) TPP (2x600 MW), Chg, KSK, U1-8/13(c),U2-8/14(c)</b>						
1	Akaltara TPS -Champa Pooling Station	KSK	2xD/C	400	105	Jun-15
<b>Amravati, TPS,(5x270), U1-3/13(c),U2-2/14©,U3-3/15 ©,U4-3/15 ©,U5-3/15 (C)</b>						
1	Amravati - Akola (Bableshtar) - I	IBPL	D/C	400	207	Mar-15
2	LILO of Koradi -Akola at Amravati	IBPL	D/C	400	14	Oct-12
<b>Anpara-D TPP (2x500 MW),SS,UP,UPRVUNL, U6-6/15 (C),U7-3/16 (C)</b>						
1	Anpara D - Unnao	UPPTCL	S/C	765	416	Jun-18
2	Anpara B-Anpara D (Ckt-I)	UPPTCL	D/C	400	5	Mar-16
3	Anpara C - Anpara D	UPPTCL	S/C	765	3	Jun-14
4	Anpara D. S/S	UPPTCL		765/ 400	1000	Jun-14
<b>Anuppur TPP Ph-I, (2x600 MW),PS,MP,Moser Baer Power MP, U1-4/15 (C),U2-2/15 (C)</b>						
1	Jabalpur Pooling Station - Jabalpur	PGCIL	D/C	400	31	Dec-13
2	Anuppur TPS - Jabalpur Pooling Station	PGCIL	D/C	400	492	Aug-14
<b>Avantha Bhandar TPS, (1x600 MW), PS,Chhattisgarh,Korba West Power Comany Limited U1-3/14(C),</b>						
1	Avantha Bhandar TPS - Raigarh (Kotra)	KWPCIL	D/C	400	37	Dec-16
<b>Avantha (Jhabua Power) (1x600 MW), PS,Seoni,MP, BHEL, U1-03/16 (C)</b>						
1	Jhabua Power TPS - Jabalpur Pooling Station.	JHAPL	D/C	400	131	May-15
<b>Baglihar-II HEP (3x150MW) SS,J&amp;K, JKPDC, U1-9/15 (C),U2-9/15(C),U3- 10/15 (C)</b>						
1	LILO of one ckt of Kishanpur - New wanpoh at Baglihar HEP	JKPDD	D/C	400	12	Dec-17
<b>Balco TPS (2x300 MW) PS,Chg,Sterlite,U1-6/15 (C),U2-3/16 (C)</b>						
1	Balco - Dharamjaygar Pooling Station	BALCO	D/C	400	46	Dec-16
<b>Bandakhar TPP, (300 MW), PS,Chg, MCC&amp;PL, U1-6/15 (C)</b>						



1	LILO of ACBIL-Baraari (Bilaspur) PS at Bandakhar (Maruti Clean Coal)	MCCPL	D/C	400	6	Jun-14
<b>Baradarha TPP (2x600 MW), PS,D.B.P.C.L, Dist.. Jangir Champa ,Chhattisgarh,U1-2/14(C), U2-3/15(C)</b>						
1	Baradarha TPS - Raigarh (Kotra) Pooling Stn	DBPCL	D/C	400	36	Aug-14
<b>Bara TPP (2x660MW),PS,UP,PPGCL,U1-12/15(C),U2-9/16(C)</b>						
1	Mainpuri - Bara Ckt-I	SEUPPTC L	S/C	765	375	Dec-18
2	Mainpuri - Bara Ckt-II	SEUPPTC L	S/C	765	377	Dec-16
<b>Barh STPP - Stage-2 (2x660 MW), CS, Bihar, U4-11/13 (C ),5-3/15(C),</b>						
1	Barh-II - Gorakhpur	PGCIL	D/C	400	698	May-15
2	Barh-Balia (Quad)	PGCIL	D/C	400	488	Jun-10
3	Balia & Bhiwadi convertor Stn. (Pole-II)	PGCIL		+/-500	1250	Jun-12
<b>Bela TPP (1x270 MW),PS,Maha,IEPL,U1-3/13(C)</b>						
1	LILO of Koradi II- Wardh(PG) at Bela TPP	MSETCL	D/C	400	49	Dec-15
<b>Bellary STPP (1X700 MW),SS,KAR,KPCL,U1-03/16(C)</b>						
1	LILO of RTPS - Guttur at BTPS.	KPTCL	D/C	400	2	Jun-08
2	BTPS- Hiriyur	KPTCL	D/C	400	313	Mar-12
<b>Bhavanagar Padva (2x250MW),SS,Guj,BHEL,U1-5/16 (C ),U2-3/17 (C )</b>						
1	LILO of Savarkundla - Vartej at BECL (Padva)	GETCO	D/C	220	56	Jun-13
2	BECL (Padva) - Botad line	GETCO	D/C	220	188	Dec-18
3	BECL (Padva)- Sagapara line	GETCO	D/C	220	83	Mar-14
<b>Bhawani Barrage HEP -II &amp; III (4x15 MW), SS,TN, TANGEDCO, BB-II (U1-8/13 (C ),U2-9/13(C), BB-III (U1-12/12 (C),U2-9/13(C)</b>						
1	BKB-III HEP - Nallur line	TANTRAN SCO	S/C	110	16	Aug-12
2	BKB-II - Common Point line	TANTRAN SCO	D/C	110	15	Aug-12
3	BKB-II Common point - Pallipalayam line	TANTRAN SCO	S/C	110	2	Aug-12
4	BKB-II Common point - Thirucengode line	TANTRAN SCO	S/C	110	9	Aug-12
5	BKB-III Common point - BKB-II line	TANTRAN SCO	S/C	110	22	Jun-12
6	BKB-III - Common point line.	TANTRAN SCO	D/C	110	6	Aug-12
7	LILO of Mettupalayam - Irumborai line at BKB-II	TANTRAN SCO	D/C	110	4	Sep-12
8	LILO of BKB-I - SP Budur at BKB-II line	TANTRAN SCO	D/C	110	5	Jun-11
<b>Bhusaval TPS (2x500 MW),SS,MAHA,MSPGCL,U4-3/12 (C),U5-3/12 (C)</b>						
1	Bhusaval - II - existing Khadka	MSETCL	D/C	400	15	Apr-10
2	Bhusaval - II - Amalner	MSETCL	D/C	220	197	Nov-11



3	Bhusaval - II - Aurangabad	MSETCL	D/C	400	185	Dec-11
4	Bhusaval (ICT -II) S/S	MSETCL		400/ 220	1000	Sep-11
<b>Bina TPS (2x250 MW),PS,MP,Bina power,U1-8/12(C),U2-3/13(c)</b>						
1	Bina TPS - Bina (PG)/Bina (MP)	JV(PG&JP)	D/C	400	40	Jan-15
<b>Binjkote TPP (4x300 MW),PS,Chg,SKS Power, U1-4/17(c),U2-12/17</b>						
1	Binjkote - Raigarh (Kotra) Pooling Station	SKS	D/C	400	55	May-15
<b>Bokaro TPS (1X500MW) U1-03/16 ©</b>						
1	Bokaro TPS Extn.- Koderma TPS	PGCIL	D/C	400	200	Dec-14
<b>Bongaigaon TPS (2x250 MW),CS, Assam, NTPC, U1-6/15 (C),U2-3/17(C),</b>						
1	BTPS- Sarusajai	AEGCL	S/C	220	130	Sep-14
2	BTPS - Kokrajhar line	AEGCL	S/C on D/C	132	10	Jun-16
3	Bongaigaon TPS - Rangia (Salakati)	AEGCL	D/C	220	326	Mar-18
4	Bongaigaon TPS - Bongaigaon	PGCIL	D/C	400	6	Dec-12
<b>Budhil HEP (2x35 MW), PS, H.P., LANCO Green, U1-5/12(C),U2-5/12.(C)</b>						
1	Budhil -Chamera III	LEPP	S/C on D/C	220	40	Mar-12
<b>Butibori (2x300 MW) TPS Phase -II,PS,Maha,RPL,U1-8/12(C),U2-03/14 ©</b>						
1	Buttibori TPS -Buttibori-III	MSETCL	D/C	220	1	Dec-11
2	butibori III	MSETCL		220/ 132	100	Mar-13
<b>Chamera-III HEP (3x77 MW), CS,H.P.,NHPC, U1-6/12,( C) U2-6/12(C), U3-6/12 (C)</b>						
1	Chamera-II HEP - Jullandur line	PGCIL	D/C	400	324	Mar-13
2	Chamera-III - Pooling Stn Chamera-II HEP	PGCIL	D/C	220	30	Aug-11
3	GIS Pooling Station near Chamera-II HEP	PGCIL		400/ 220	630	Aug-11
<b>Chandrapur TPS, (2x500 MW), SS, Maha, MSPGCL, U1 to 7 (C) U8-3/15 (C), U9-3/16 (C)</b>						
1	Chandrapur-II - Warora	MSETCL	D/C	400	91	Jun-13
2	Chandrapur switching Stn - Chandrapur II	MSETCL	S/C	400	4	Mar-14
3	LILO of Chandrapur-Parli at Chandrapur II	MSETCL	D/C	400	3	Apr-13
4	Warora-Wardha(2nd Ckt)	MSETCL	S/C	400	76	Jan-13
5	Chandrapur-II	MSETCL		400/ 220	1000	Jan-18
<b>Chanju-I HEP (3x12 MW) on Ravi river, SS HPPTCL, IA Energy, U1,2-2/17(C),</b>						
1	Chanju - Nakrot line	HPPTCL	D/C	132	12	May-16
2	LILO of one ckt Kurthala - Bathri at Nakrot Pooling Station	HPPTCL	D/C	132	1	Mar-17
<b>Chhabra TPP Extn. (2x250 MW) SS,Raj, RRVUNL, U3-9/13(C),U4-6/14 (C)</b>						
1	Chhabra TPS - Jhalawar	RVPNL	S/C	220	101	Aug-11
2	Chhabra TPS -Hindaun	RVPNL	S/C	400	342	Apr-10



<b>Chujachen HEP (2x49.5 MW)PS,Sikkim,GIL,U1-4/13(C),U2-4/13 (C).</b>						
1	Chujachen HEP - Rangpo PS	GISL	D/C	132		Mar-17
2	LILO of Melli - Gantok at Chuzachen (LILO point at namthang)	GISL	D/C	132	47	Mar-17
<b>Chutak-HEP (4x11 MW), CS, J&amp;K, NHPC, U1-11/12( C), U2- 11/12( C), U3- 11/12(C), U4-1/13(C)</b>						
1	Chutak HEP-Kargil-I	JKPDD	S/C	66	10	Mar-17
2	Chutak HEP-Gramthong -II	JKPDD	S/C	66	5	Mar-17
<b>Cuddalore TPP (2x600 MW), PVT, IL&amp;FS, SS, Tamil Nadu, U1-9/15 (C) , U2-04/16 (C )</b>						
1	Cuddalore - Naggapattinam	ITPCL	D/C	400	95	Aug-16
<b>Damodaram Sanjeevaiah(Krishnapatnam)TPP,(2x800MW) SS,AP, APPDCL,U1-8/14 (C) U2-3/15 (C)</b>						
1	Krishnapatnam TPS - Nellore.	APTRANS CO	D/C	400	72	Nov-12
2	Bonapally - Chittoor (Quad)	APTRANS CO	D/C	400	196	Feb-15
3	Krishnapatnam TPS- Chittoor(Balance)	APTRANS CO	D/C	400	180	Jul-15
<b>Derang TPP (2x600MW) PS, Orissa, JIPL, U1-5/14 (C), U2-1/15 (C)</b>						
1	Derang - Angul Pooling Station	JPL	MC+D /C	400	154	Aug-14
<b>DGEN TPS (3x400MW), Torrent Power Ltd, Gujarat, U1-1/14 (C), U2-3/14 ©, U3-4/14 (C)</b>						
2	DGEN TPS - Vadodara	DTCL	D/C	400	135	DTCL abandon project
3	DGEN TPS - Navsari	TOR. POW.	D/C	400	210	Jan-17
4	Navseri - Bhasten	DTCL	D/C	220	90	DTCL abandon project
<b>Dhariwal TPS (2x300 MW), PS, Maharashtra, DIPL, U1-11/13(C),U2-5/14 (C)</b>						
1	Dhariwal TPS -Channdrapur II (1st Ckt)	DIPL	D/C	400	20	Sep-13
2	LILO of one ckt of Bhadravati (PG) - Parli at Dhariwal	DIPL	D/C	400	31	Aug-14
<b>Dhuvaran CCPP-III,376.1 MW,SS ,GSECL, Block-1-05/14 ©</b>						
1	LILO of Karmsad -Vartej at Dhuvaran	GETCO	D/C	220	60	May-18
<b>Durgapur (DPL) Extn. (250 MW), SS,WB, U8-3/14 (C)</b>						
1	DPL - Bidhan nagar	DPL	D/C	400		Mar-12
<b>EMCO Warora TPP (2x300 MW), PS,Maha,GMR, U1-2/13 (C),U2-8/13(C)</b>						
1	EMCO - Bhadrawathi (PG)	GMR ENERGY	D/C	400	80	Jan-13
<b>GAMA CCPP(225 MW), M/s GAMA Infraproject Ltd., UK, Module-1 -4/16</b>						
1	LILO of Mahuakheraganj-Kashipur line at GAMA CCPP	GAMA	D/C	220	3	Feb-16
<b>Goindwal Sahib (2x270MW), PS,Punjab,GVK, U1-2/16(C),U2-3/16 (C)</b>						
1	Goindwal Sahib - Chola Sahib	PSTCL	D/C	220	55	Dec-15
2	Goindwal Sahib - Sultanpur Lodhi	PSTCL	D/C	220	38	Aug-12





3	Goindwal Sahib - Bottianwala	PSTCL	D/C	220	129	Dec-17
<b>Haldia TPP (2x300 MW) SS, WB, IPC(H)L. U1 - 01/15 (C), U2 - 02/15 ( C )</b>						
1	Haldia TPP - Egra	ISPAT	D/C	220	180	Dec-18
2	Haldia TPP (IPCL) - New Haldia (WBSETCL)	IPCHL	D/C	220	5	May-17
<b>Harduaganj TPS (1x250 MW),SS,UP,UPRVUNL,U9-5/12(C)</b>						
1	Harduaganj - Jahangirabad	UPPTCL	D/C	220	99	Nov-14
<b>Ind Barath TPP (Utkal)(1x350MW),PS,Orissa,Barath, U1-2/16(C),</b>						
1	Ind Barath - Jharsuguda line	IBPIL	D/C	400	124	Oct-17
2	LILO of Rouekila - Raigarh at Ind Barath	IBPIL	D/C	400	47	Jun-15
<b>Tuticorin TPP (Ind Barath), (2X150 MW),TN, U1-03/13 ( C ), U2-12/13 ( C )</b>						
1	Ind Barath TPP - Tuticorin (PS)	IBPIL	D/C	400	200	
<b>Jallipa-Kapurdi TPP (4x135 MW),PS,RAJ, Raj West Power,U5-2/13(C),U6-3/13( C ), U7-3/13(C ),U8-2/13(C)</b>						
1	Rajwest- Jodhpur	RVPNL	D/C	400	417	May-10
2	LILO of Giral - Barmer Ckt 1 at Raj West TPS.	RVPNL	D/C	220	5	Aug-08
3	Rajwest- Barmer	RVPNL	D/C	400	30	May-10
4	Raj West-Dhorimana	RVPNL	S/C	220	83	Mar-12
<b>Jhajjar Mahatama Gandhi (CLP) (1x660 MW), PS, U2-4/12(C)</b>						
1	Kabulpur-Deepalpur	HVPNL	D/C	400	133	Feb-12
2	LILO of Jhajjar (APCPL) - Daultabad line at MG Jhajjar (CLP)	HVPNL	D/C	400	10	Oct-11
3	Jhajjar -Dhanonda	HVPNL	D/C	400	40	Feb-12
4	Jhajjar - Kabulpur	HVPNL	D/C	400	70	Feb-12
5	Kabulpur S/S	HVPNL		400/ 220	630	Feb-12
6	Kabulpur S/S	HVPNL		220/ 132	200	Feb-12
7	Deepalpur S/S	HVPNL		400/ 220	630	Feb-12
8	Deepalpur S/S	HVPNL		220/ 132	200	Feb-12
<b>Jhajjar TPS (Indira Gandhi ) TPS (1x500 MW),CS,HR,ACPL,U3-11/12 (C)</b>						
1	Jhajjar TPS - Mundka	APCPL	D/C	400	132	Nov-10
2	Jhajjar TPS - Daultabad	HVPNL	D/C	400	136	Feb-12
3	Mundka	DTL		220/ 66	320	Sep-12
4	Daultabad S/S	HVPNL		400/ 220	945	Dec-10
5	Mundka (2x315) S/S	DTL		400/ 220	630	Mar-11
<b>Jharsuguda (Sterlite TPP),PS, Ori,Sterlite, U4-4/12 (c)</b>						
1	Sterlite TPP- Jharsuguda	SEL	D/C	400	101	Oct-17
2	Sterlite TPP - Sterlite captive plant D/C	SEL	2xD/C	220	9	Aug-10



<b>Jorethang Loop HEP (2x48MW)PS,Sikkim,DANS,U1-9/15 (C), U2-9/15 (C).</b>						
1	Jorethang HEP - New Melli	DEPL	D/C	220	20	Nov-16
<b>Kakatiya TPP Extn (1x600 MW) SS,TCTL, APGENCO,U2-12/15 (C)</b>						
1	Bhoopalapally (Kakatiya) - Gajwel	APTRANS CO	D/C	400	262	Sep-13
<b>Kalisindh TPS (2x600 MW), SS,Raj,RRVUNL, U1-5/14 (C),U2-6/15 (C)</b>						
1	Phagi GSS (Jaipur) - Heerpura line	RVPNL	D/C	400	104	Dec-16
2	Anta - Phagi (Jaipur South Ckt-2)	RVPNL	S/C	765	214	Jan-14
3	Kalisindh-Jhalawar line	RVPNL	D/C	220	19	Apr-12
4	Kalisindh TPS - Anta (Baran) Pooling Stn (Q)	RVPNL	D/C	400	159	Mar-14
5	Anta - Phagi (Jaipur South Ckt-1)	RVPNL	S/C	765	212	Mar-14
6	Phagi(Jaipur south-765 kV)-Ajmer line	RVPNL	D/C	400	210	Mar-18
7	Phagi (jaipur South )	RVPNL		765/ 400	3000	Feb-15
8	Ajmer S/S	RVPNL		400/ 220	315	Jan-16
9	Anta (Distt. Banra) Pooling Station	RVPNL		765/ 400	3000	Feb-15
<b>Kamalanga TPP (3x350MW),PS,GMR, Orissa, U1-3/13(C),U2-9/13(C),U3-3/14 (C )</b>						
1	Kamalanga (GMR) - Angul pooling station	GMR ENERG	D/C	400	60	Dec-14
2	LILO of Talchar -Meramundli at Kamalanga TPP	GMR ENERG	D/C	400	1	May-12
<b>Kasaipalli TPP (1x135 MW),PS,Cha,ACB,U2-6/12(C)</b>						
1	Kasaipalli TPP -Bharai (Sipat) Pooling station	ACB	D/C	400	112	Jul-12
2	LILO of Korba - Bhatapara at Kasaipalli	ACB	D/C	400	6	Nov-11
<b>Kashang-I,II &amp;III HEP(1x65+2x65MW) on Satluj river,SS,HP,U1-10/16 (C),U2-8/16 (C),U1-01/17 (C)</b>						
1	Kashang - Bhaba (2nd Ckt)	HPPTCL	D/C	220	39	Apr-16
<b>Kashipur Stg-I(225 MW), Sravanthy Energy Pvt. Ltd., UK, Module-I-11/16</b>						
1	Mahuakheraganj-Kashipur line	PTCUL	D/C	220	34	Aug-14
<b>Kawai Super Critical TPS (2x660 MW),Raj, PS,Adani , U1-5/13 (C),U2-12/13 (C)</b>						
1	Kawai - Anta (Baran)	RVPNL	D/C	400	101	Jan-14
2	Chhabra TPS-Kawai SCTPS	RVPNL	S/C	400	16	Dec-12
3	Anta GSS (ICT-3)	RVPNL		765/ 400	1500	Apr-17
<b>Koderma TPS 1x500 MW,CS,JHA,DVC,U2-2/13 (C)</b>						
1	LILO of Barhi-Koderma at Koderma S/S	DVC	D/C	132	32	Aug-10
2	Koderma-Biharshariff (Quad)	PGCIL	D/C	400	222	May-11
<b>Koldam HEP (4x200 MW),CS,HP,NTPC, U3-4/15 (C), U4-6/15 (C)</b>						
1	Koldam - Nalagarh	PGCIL	D/C	400	93	Mar-10
2	Koldam - Ludhinana (JV Portion)	PKTCL	D/C	400	301	Sep-14
<b>Koradi TPP Expn. (3x660 MW), SS,Maha, MSPGCL, U8-3/15 (C) ,U9-3/16 (C),U10-12/16 (C )</b>						



1	Koradi-II - Koradi-III (Ckt-I)	MSETCL	D/C	400	38	Dec-16
2	Koradi TPS - Wardha	MSETCL	D/C	400	144	Jan-16
3	Koradi TPS-New Khaparhkeda	MSETCL	D/C	220	28	Mar-16
<b>Korba (E) (2x250 MW), SS, Chg, U2-7/12 (C)</b>						
1	Korba -Vishrampur	CSPTCL	S/C	220	153	Aug-14
<b>Korba (W) (1x500 MW),SS,Cha,CSEB,U5-3/13(C)</b>						
1	LILO Korba (West)-Bhilai at Raipur (CSPTCL)	CSPTCL	D/C	400	47	Sep-12
2	Korba (W)-Bhilai (khedamara)	CSPTCL	D/C	400	447	Dec-12
3	Raipur S/S (ICT I & II.)	CSPTCL		400/ 220	630	Mar-16
<b>Kudgi TPS-I (2x800), NTPC Ltd., U1-12/16(C),U2-3/17©</b>						
1	Narendra (New) - Madhugiri	KTCL	D/C	765	758	Sep-16
2	Madhugiri - Bidadi	KTCL	D/C	400	185	Aug-16
3	Kudgi STPS - Narendra	KTCL	2xD/C	400	36	Aug-15
<b>Lalitpur Ph-I (3x660MW),PS,UP,BHL, U1-03/16 (C),U2-1/16(C),U3-04/16(C)</b>						
1	Lalitpur TPS - Fatehabad {Agra } line-II	UPPTCL	S/C	765	335	Apr-17
2	Lalitpur TPS – Fatehad{Agra} line-I	UPPTCL	S/C	765	337	Sep-16
3	Maath (Mathura) -Chhata line	UPPTCL	D/C	220	68	Apr-17
4	LILO of one ckt of 400 kV Agra (UP) - Agra (PG) 400 kV D/C line at Fatehabad S/S	UPPTCL	D/C	400	73	Sep-16
5	LILO of Agra - Muradnagar at Mathura	UPPTCL	D/C	400	64	Jun-17
6	LILO of 400 kV Agra (UP) - Muradnagar 400 kV S/C line at Fatehabad S/S	UPPTCL	D/C	400	156	Sep-16
7	Agra(UP) - Agra (South)	UPPTCL	D/C	400	139	Jun-17
8	Fatehabad (Agra) - Mathura line	UPPTCL	S/C	400	142	Apr-17
9	Fatehabad(UP) S/S	UPPTCL		765/ 400	3000	Sep-16
10	Agra (South) S/S	UPPTCL		400/ 132	600	Jun-17
11	Mathura S/S			400/ 220	630	April-17
<b>LANCO Kondapalli(2x371 MW), PS, AP, LANCO Infra, U1-8/15, U2-9/15(C)</b>						
1	Kondapalli TPS - Nunna	APTRANS CO	D/C	400	44	Oct-09
<b>Lower Jurala HEP (6x40MW) SS,TCTL,TSGENCO,U1-10/15(C),U2-9/15(C),U3-1/16 (C),U4-11/15,U5-8/16 (C),U6-9/16(C).</b>						
1	LILO of Veltoor -Jurala at Lower Jurala HEP	APTRANS CO	D/C	220	9	Dec-13
2	Lower Jurala HEP - Upper Jurala	TSTRANS CO	D/C	220	21	Aug-16
<b>Mahan TPP Ph-1(1x600 MW),PS, MP,ESSAR Power TCL, U1-2/13 (C),</b>						



1	LILO of Viindhyachal -Korba line at Mahan TPS	EPTCL	D/C	400	44	Mar-13 (interim)
2	Gandhar-Hazira	EPTCL	D/C	400	208	Mar-13
3	Mahan TPS -Sipat	EPTCL	D/C	400	670	Mar-18
4	Hazira S/S	EPTCL		400/ 220	1000	Jul-15
<b>Mangaon CCPP(338 MW), PS, MH, PGPL,U1-2/13(C)</b>						
1	Mangaon CCPP(Vile)- Bhagad	MSETCL	D/C	220	4	Mar-16
<b>Malwa TPP(Shree Singaji), (2x600), SS,MP,MPPGCL, U1-11/13 (C),U2-10/14 ©</b>						
1	Malwa TPP - Chhegaon	MPPTCL	D/C	400	105	Feb-13
2	LILO of both ckts of Nimrani-Julwania at Julwania	MPPTCL	D/C	220	6	Sep-13
3	Chhegaon - Julwania	MPPTCL	D/C	400	225	Nov-14
4	Pithampur-Indore	MPPTCL	D/C	400	128	Mar-14
5	Malwa TPP - Pithampur	MPPTCL	D/C	400	272	Nov-13
6	Malwa TPP - Chhegaon	MPPTCL	D/C	220	95	Mar-12
7	Chhegaon S/S	MPPTCL		400/220	315	Dec-12
8	Pithampur S/S	MPPTCL		400/220	630	Apr-13
9	Julwania S/S	MPPTCL		400/220	630	Nov-14
<b>Marwa TPP (2x500 MW) SS,Chg,CSPGCL U1-3/14 (C), U2 -7/16 ©</b>						
1	LILO of One ckt of Korba (W) - Khedamara at Marwa	CSPTCL	D/C	400	116	May-15
2	Marwa - Raipur (Raitha)	CSPTCL	D/C	400	281	Jun-13
<b>Mauda TPS (2X500 MW),CS, Maha, NTPC, U1-4/12 (C), U2-3/13(C)</b>						
1	Mauda - Wardha (2nd Ckt)	PGCIL	S/C	400	124	May-12
2	Mauda - Wardha line (Quad)(Ckt-1)	PGCIL	S/C	400	124	Mar-12
<b>Mettur TPS Stage III (600 MW), SS,TN,U1-10/12(C)</b>						
1	LILO of MTPS -Malco at MTPS Stage III	TANTRAN SCO	D/C	230	3	Feb-11
2	MTPS St.III - Arasur	TANTRAN SCO	D/C	400	220	Jan-13
3	MTPS Stage-III - Gobi	TANTRAN SCO	S/C	230	3	Mar-12
<b>Monarchak CCPP (1x65.4+ 1X35.6 MW), CS,Tripura, NEEPCO, GT - 3/15 (C), ST - 1/16(C).</b>						
1	Surajmani Nagar - Rabindra nagar	TSECL	D/C	132	3	Mar-17
2	Monarchak - Surajmani Nagar	TSECL	D/C	132	42	Mar-18
<b>M/s Sembcorp Gayatri Power Ltd. (SGPL) (Formerly NCC Power Project Ltd.) SCTPP (2x660MW), PS,AP, Nellore, U1-11/16 (C), U2-02/17 (C)</b>						
1	NCC SCTPP - Nellore PS line (Q)	PGCIL	D/C	400	66	Mar-16
<b>Mundra TPP (4X800MW), PS, Guj, Tata Power, U2-7/12 ©, U3-10/12 ©, U4-1/13 (C), U5-3/13 (C)</b>						
1	+/- 500kV Mundra- Mohindergarh HVDC line	APL	BIPO LE	500	1980	Mar-12
2	Mohindergarh HVDC - Bhiwani	APL	D/C	400	100	Jul-12



3	Mohindergarh HVDC- Mohindergarh (Dhanonda)	APL	D/C	400	10	Jul-12
4	Daultabad -Dhanonda	HVPNL	D/C	400	146	Jun-13
5	Dhanoda (Mohindergarh)	HVPNL		400/ 220	315	Apr-12
6	2500 MW Bipole at Munda & Mohindergarh	APL		+/-500	2500	Mar-13
<b>Mutiara (Melamaruthur) (Coastal Energen) TPP (2x600 MW),PS,CEPL,U1-12/14 (C),U2-1/16(C)</b>						
1	Mutiara TPP - Tuticorin Pooling Station	CEPL	D/C	400	76	Oct-16
<b>Muzaffarpur TPP Exp, Kanti-II (2x195MW) CS, Bihar, JV-NTPC U3-03/15 (C), U4-3/17 (C)</b>						
1	Kanti - Darbhanga (2nd Ckt)	BSPTCL	S/C	220	68	Sep-14
2	Kanti - Gopalganj (2nd Ckt.)	BSPTCL	S/C	220	101	Mar-16
<b>Myntdu (Leshka) HEP (3x42 MW),SS,Meg,MeECL, U1&amp;U2-3/13,U3-3/13 (C)</b>						
1	Leshka Myntdu - Khliehriat	MeECL	D/C	132	53	May-10
<b>Nabi Nagar TPP (1x250 MW), CS,Bihar, NTPC, U1-3/16(C),</b>						
1	Nabinagar - Sasaram line (Twin lapwing)	PGCIL	D/C	400	164	May-12
<b>Nagarjuna Sagar TR HEP ( 2x25 MW),SS,AP,APGENCO,Unit-1&amp;2-01/17(c)</b>						
1	Rentachintala - Nagarjuna Sagar Plant	APTRANS CO	S/C	132	16	Mar-17
2	Rentachintala - Macherla S/S	APTRANS CO	S/C	132	17	Mar-17
3	LILO of VTS - Tallapally line at Rentachintala	APTRANS CO	D/C	220	2	Nov-8
4	Rentachintala S/S	APTRANS CO		220/132	200	Nov-8
<b>Namrup CCGT (62.25 MW),SS, Assam,GT/ST,U1-1/17 ( C)</b>						
1	Namrup - Mariani	AEGCL	S/C	220	145	Jan-16
<b>Nasik (2X270 MW) TPS, PS, Maha, India Bulls, ph-1 U1-02/14,U2-02/17 ©</b>						
1	Nasik-Bableshwar (1st Ckt)	IBPL	D/C	400	57	Mar-14
2	Nasik - Bobleshwar (2nd Ckt)	IBPL	D/C	400	57	Aug-15
<b>Navapura TPP (TRN ) (1x300 MW), Chhattisgarh Pvt. Sector , TRN Energy Pvt. Ltd. U1-08/16 (C)</b>						
1	Navapura TPS - Raigarh PS (Tamnar)	TRNE	D/C	400	30	Jan-16
<b>Neyveli TPS-II Exp. (1x250MW) CS,TN, NLC,U2-1/15 (C)</b>						
1	Neyveli (Exp-II) - Neyveli TS-II	NLC	2xS/C	400	3	Aug-09
2	Neyveli TS-II - Pugalur	NLC	D/C	400	398	Aug-09
<b>Nigri TPP (2x660 MW), PS,MP, JPVL, U1-8/14 (C),U2-2/15 (C)</b>						
1	Nigri TPP - Satna (PG)	JAL	D/C	400	322	Feb-17
<b>Nimoo Bazgo (NHPC) (3x15 MW),CS,J &amp; K,NHPC,U1-11/13(C),U2-10/13(C),U3-10/13(C).</b>						
1	Nimoo Bazgo HEP - Alachi	JKPDD	S/C	66	4	Nov-11
<b>Niwari TPP (1x45MW), MP, BLA Power Ltd., U1-12/13©</b>						
1	Niwari - Gadarwara line	MPPTCL	D/C	132		Oct-13
<b>North Chennai TPS St.II (2x600 MW),SS,TN,U1-9/13(C),U2-3/13 (C).</b>						



1	LILO of NCTPS- Mosur at NCTPS Stage II (for startup power)	TANTRAN SCO	D/C	230	2	Nov-10
2	Alamathy -Sunguvarchatram (1st Ckt)	TANTRAN SCO	D/C	400	98	Jan-14
3	Alamathy -Sunguvarchatram (2nd Ckt)	TANTRAN SCO	D/C	400	100	Mar-14
4	NCTPS St.II- Alamathy 400 kV S/S	TANTRAN SCO	M/C	400	136	Jan-13
<b>Painampuram TPP (2x660MW),PS,AP,Thermal power tech Development Corp (India) ltd.,U1-2/15 (C),U2-9/15 (C)</b>						
1	Thermal Powertech - Nellore Pooling Station	PGCIL	D/C	400	65	Aug-13
<b>Palatana CCGT (2x363.3 MW),PS,Tri,OTPC, Module 1 – 01/13 (C), Module 2 - 11/14 (C)</b>						
1	Palatana -Silchar	NETC	D/C	400	494	Aug-12
2	Silchar - Bonbaigaon	NETC	D/C	400	814	Feb-13
3	LILO of Palatana - Bongaigaon at Azara S/S	AEGCL	D/C	400	7	Jan-15
4	LILO of Palatana - Bongaigaon at Byrnihat	MeECL	D/C	400	9	Mar-13
<b>Parbati-III HEP (4x130 MW),CS,HP,NHPC,U1-6/14 (C),U2-2/14 (C),U3-3/14 (C),U4-5/14 (C)</b>						
1	LILO of Parbati -II - Koldam at Parbati P Stn.	PGCIL	D/C	400	1	Jul-13
2	Parbati Pooling Point - Amritsar	PGCIL	D/C	400	501	Jul-13
3	LILO of Parbati-II- Parbati P Stn. at Parbati -III	PGCIL	D/C	400	4	Jul-13
<b>Parichha Extn. TPS (2x250 MW),SS,UP,UPRVUNL,U5-5/12(C),U6-3/13 (C)</b>						
1	Parichha - Mainpuri (1st Ckt.)	UPPTCL	D/C	400	259	Dec-13
2	Parichha - Banda	UPPTCL	S/C	220	210	Mar-12
3	Paricha - Mainpuri 2nd Ckt.)	UPPTCL	D/C	400	259	Jan-14
4	Parichha - Bhauti	UPPTCL	S/C	220		Mar-10
5	Orai S/S (new) (ICT-1)	UPPTCL		400/ 220	315	Nov-16
6	Orai s/s (new) (ICT-2)	UPPTCL		400/ 220	315	Jan-18
<b>Parli TPP Expn. (250 MW), SS,Maha,MSPGCL, U8-3/16(C)</b>						
1	Parli TPS-Nanded (waghala)	MSETCL	M/C	220	181	Oct-12
<b>Pipavav CCPP(2x351MW),SS,Guj,GSECL,Block-1-2/14 (C), Block-2-3/13 (C).</b>						
1	GPPC (Pipavav)- Dhokadva	GETCO	D/C	220	94	Jul-16
2	Otha (Mahuva) - Sagapara (Palitana)	GETCO	D/C	220	96	Jun-13
3	LILO of Savarkundla - Mahva (otha) at Pipavav (GPPC) (line-2)	GETCO	D/C	220	81	Aug-12
4	LILO of Savarkundla - Mahva(otha) at Pipavav (GPPC) (line-1)	GETCO	D/C	220	91	Mar-12
<b>Pragati CCGT Ph-III(2X250+1X250MW),SS,DEL,PPCL,GT3-6/12,©,GT4-5/13(C),ST2-2/14 (C)</b>						
1	Extension of bus and connection with DTL Substation	PPCL		400	630	Jun-12



<b>Pulichintala HEP (1x30MW),SS,Telangana,TSGENCO,U1- 9/16 (C)</b>						
1	LILO of Chillakallu S/S - Narketpally line at Huzurnagar S/S	TSTRANS CO	D/C	220	24	Jun-17
2	Pulichintala HEP - Huzurnagar line	TSTRANS CO	D/C	220	74	Mar-18
3	Huzurnagar S/S	TSTRANS CO		220/ 132	200	Mar-18
<b>Raghunathpur TPS (2x600 MW),CS,WB,DVC,U1-8/14 (C),U2-1/16(C).</b>						
1	Raghunathpur TPS -Ranchi (PG)	DVC	D/C	400	311	Sep-17
2	LILO of Maithon-Ranchi (PG) at Raghunathpur	DVC	D/C	400	21	Mar-11
<b>Raikheda TPP (2x685 MW), PS,Chh, GMR, U1-2/15 (C), U2-3/16 (C),</b>						
1	Raikheda (GMR) - Raipur Pooling Station	GMR ENERGY	D/C	400	131	Jul-15
<b>Rajpura (NABA) TPP, (2x700MW) U1-1/14 (C) ,&amp; U2-7/14 (C)</b>						
1	Rajpura - Dhuri	PSTCL	D/C	400	171	May-13
2	Rajpura Thermal - Rajpura	PSTCL	D/C	400	18	May-13
3	Rajpura Thermal - Nakodar	PSTCL	D/C	400	279	May-14
4	Rajpura (New) (2x500) (ICT-II)	PSTCL		400/ 220	500	Mar-17
5	Rajpura (New) (2x500) (ICT-I)	PSTCL		400/ 220	500	Jun-16
<b>Ramgarh CCPP Extn.-III, (110+50 MW), SS,Raj, RRVUNL, (GT-3/13(C),ST-5/14 (C)</b>						
1	Chandan - Dechu	RVPNL	D/C	220	202	Dec-14
2	Dechu - Phalodi	RVPNL	D/C	220	71	Sep-12
3	Ramgarh (GTPP) - Chandan	RVPNL	D/C	220	194	Nov-14
<b>Rampur HEP (6x68.67 MW),CS,HP,SJVNL,U1-2/14 (C),U2-2/14 (C),U3-3/14 (C), U4-6/14(C), U5-3/14 (C), U6 - 12/14(C)</b>						
1	LILO of Nathpa Jhakri - Nalagarh at Rampur (2nd Ckt balance)	PGCIL	D/C	400	2	Oct-14
2	Patiala - Ludhiana	PGCIL	D/C	400	156	Sep-11
3	LILO of Patiala - Hissar at Kaithal	PGCIL	D/C	400	66	Aug-11
4	LILO of Nathpa Jhakri - Nalagarh at Rampur (Loop in portion)	PGCIL	D/C	400	5	Feb-14
<b>Ratija &amp; Ratija TPP-II ( 1x50 MW+1X50MW ) TPS,P.S.,Spectrum Coal &amp; Power ltd.,Chh, U1-2/13(C), U2-11/16(C)</b>						
1	Ratija - Kasiapalli	SCPL	D/C	132	24	Mar-17
<b>Salora TPS (M/s Vandana Vidyut ) (1x135 MW),U1-04/14</b>						
1	Salora TPS – Dharamjaigarh Pooling Stn	VVL	D/C	400	60	Yet to start
2	LILO of one ckt Korba-Birsinghpur at Salora TPP	VVL	D/C	400	6	JUL-12 (Interim)
<b>Sagardighi TPP (2x500 MW),SS,WB,WBPDCL, U3-12/15(C), U4-12/16</b>						
1	Sagardighi - Parulia (PGCIL)	WBSETCL	S/C on D/C	400	255	Apr-11



2	Sagardighi - Gokarna	WBSETCL	D/C	400	82	Mar-18
<b>Salaya (Essar Power ) (1x600 MW),PS, Guj, Essar Power ,U2-6/12 (C)</b>						
1	Vadinar (Essar)-Hadala	GETCO	D/C	400	226	May-11
2	Vadinar - Amreli (Part line)	GETCO	D/C	400	117	Jan-14
3	Essar Gujarat TPS - Bachau (Tripal)	PGCIL	D/C	400	446	Sep-16
4	Vadinar(Essar)- Amreli (Balance)	GETCO	D/C	400	180	Dec-18
<b>Sasan UMPP (6x660 MW),PS,MP,Reliance,U1-5/14 (C),U2-12/13 (C),U3-5/13 (C),U4-3/14 (C),U5-8/14 (C),U6-3/15 (C)</b>						
1	Indore - Indore (MPPTL)(Partly)	PGCIL	D/C	400	50	Mar-12
2	Satna - Bina line -II	PGCIL	S/C	765	276	Jun-12
3	LILO of both ckt Vindhyachal -Jabalpur at Sasan	PGCIL	2xD/C	400	13	Mar-12
4	Sasan - Satna line -I	PGCIL	S/C	765	241	Dec-12
5	Sasan - Satna line -II	PGCIL	S/C	765	242	Apr-13
6	Sasaram - Fatehpur line-II	PGCIL	S/C	765	355	May-13
7	Bina - Bina (MPPTCL)	PGCIL	D/C	400	1	Jan-13
8	Indore - Indore Ckt-II	PGCIL	D/C	400	50	Jun-13
9	Fatehpur- Agra line-II	PGCIL	S/C	765	334	Sep-13
10	Satna - Bina line -I	PGCIL	S/C	765	274	Jan-12
11	Satna S/s	PGCIL		765/ 400	2000	Aug-12
12	Bina. S/S	PGCIL		765/ 400	2000	Aug-12
13	Gwalior	PGCIL		765 /400	3000	Mar-13
14	Indore	PGCIL		765/ 400	3000	Sep-13
<b>Satpura Ext TPS (2X250 MW),SS, MP,MPPGCL, U10-3/13 (C), U11-12/13(C)</b>						
1	Satpura - Ashta	KPTL	D/C	400	482	Mar-15
2	Ashta - Indore - II (Jetpura)	MPPTCL	S/C on D/C	220	199	Feb-15
4	Ashta New	MPPTCL		400/ 220	630	Jan-15
<b>Sikka TPP Extn, (2x250 MW) SS, Gujarat, GSECL, U3 -3/15 (C),U4-9/15 (C)</b>						
1	Sikka - Moti Paneli line	GETCO	D/C	220	157	Aug-15
2	LILO of Jamnagar - Jetpur line-II at Sikka	GETCO	D/C	220	120	Dec-18
<b>Simhapuri PH-I &amp; PH-II,(1X150 MW+2X150 MW),PS,U2- 7/12 (C ),U3-2/14@, U4-3/15(C)</b>						
1	Simhapuri-Nellore		S/C	400	26	Mar-12
<b>Singareni Collieries Generation Project (2x 600 MW), Telangana,U1-3/16 (C),U2-11/16(C)</b>						
1	Singareni TPS (Jaipur TPP) - Gajwel	TSTRANS CO	D/C	400	325	Nov-15
<b>Srinagar HEP, (4x82.5 MW),PS,UK,AHPC Ltd.,U1-4/15 (C) ,U2-6/15 (C), U3-4/15 (C)U4-6/15 (C)</b>						
1	LILO of Muzaffarnagar -Vishnuprayag at Srinagar	UPPTCL	D/C	400	7	Nov-14





2	Srinagar HEP - Sringer S/S.	PTCUL	D/C	400	28	Jul-16
<b>Swastik TPP, (25 MW), PS,Chg, ACB, U1-03/15 ( C)</b>						
1	LILo of Korba-Mopka at Swastik TPP	APL	D/C	132		Mar-17
<b>Talwandi Sabo TPP (3x660MW),PS,Punjab, Sterlite, U1-6/14 (C),U2-10/15 (C),U3-03/16 (C)</b>						
1	Talwandi Sabo-Mukatsar	PSTCL	D/C	400	201	Sep-14
2	Moga- Nakodar	PSTCL	D/C	400	128	Apr-14
3	Talwandi Sabo - Dhuri	PSTCL	D/C	400	175	Jan-13
4	Talwandi Sabo - Moga	PSTCL	D/C	400	204	Mar-13
5	Mukatsar (2x315)	PSTCL		400/ 220	630	Sep-14
6	Nakodar (1st Trf.)	PSTCL		400/ 220	315	Apr-14
<b>Tamnar TPP (4x600 MW),PS,Chatt,JPL, U1-3/14 (C),U2-3/14 (C),U3-1/15 (C),U4-3/15 (C)</b>						
1	Tamnar TPP - Raigarh (Tamnar) P Stn	JPL	2xD/C	400	44	Jan-15
<b>Teesta-III(6x200 MW),PS,Sikkim,TUL,U1to6- 2/17 (C)</b>						
1	Teesta III - Kishanganj	TUL	D/C	400	430	Mar-18
2	LILo of Teesta III – Kishanganj at Rangpo (Loop in portion)	TUL	D/C	400	71	Jan-17
<b>Teesta LD IV HEP (4x40 MW),CS,WB,NHPC,U1:03/16, U2:03/16(C), U3-7/16 (C),U4-8/16 (C)</b>						
1	Teesta LDP -III - Teesta LDP-IV	WBSETCL	S/C	220	21	Dec-17
2	Teesta LDP - IV - New Jalpaiguri (NJP)	WBSETCL	D/C	220	145	Feb-16
<b>Teesta Low Dam III (4x33 MW),CS,WB,NHPC, U1-1/13(C) ,(C) U2-1/13(C), U3-2/13(C), U4/13(C)</b>						
1	Teesta LD III-New Jalpaiguri	WBSETCL	S/C	220	81	Jan-13
<b>Thamminapatnam (Meenakshi) (2x150, MW ),PS, Ph-I (U1-09/12,U2-4/13)</b>						
1	Meenakshi - Simhapuri		D/C	400	2	Mar-12
2	Thamminapatnam (Meenakshi) - Nellore		S/C	400	26	Mar-12
<b>Tiroda TPP (Gondia ) PH-I (2x660 MW),PS,MAHA,ADANI,U1-9/12, (C),U2-03/13 (C) ,PH II (3x660 MW) U1-6/13(C), U2- 3/14(C),U3-9/14 (C)</b>						
1	Tiroda - Koradi - Akola - Aurangabad line-II	APL	S/C	765	575	Mar-15
2	Tiroda - Koradi - Akola - Aurangabad line-I	APL	S/C	765	580	Feb-14
3	Tiroda TPP -Warora (1st ckt)	APL	S/C	400	218	Mar-13
4	Akola- I - Akola-II	APL	D/C	400	61	Feb-14
5	Tiroda TPP - Warora (2nd ckt)	APL	S/C	400	218	Aug-12
6	Koradi - III S/S	APL		765/ 400	3000	Mar-15
7	Aurangabad - III	MSETCL		765/ 400	1500	Mar-16
8	Warora S/S	MSETCL		400/ 220	500	Mar-13
9	Akola -II S/S	APL		765/ 400	1500	Feb-14
10	Tiroda S/S	APL		765/ 400	1500	Feb-14



<b>Mauda Stage-II (2x660MW) Gen. Proj. - PGCIL,U3-3/16 ( C ), U4-3/17 ( C )</b>						
1	Khandwa - Indore line	PGCIL	D/C	400	344	Aug-16
2	Betul - Khandwa (Quad) line	PGCIL	D/C	400	338	Aug-16
3	Mauda-II - Betul (Quad) line	PGCIL	D/C	400	393	Jul-17
<b>Tuticorin TPS (JV) (2x500 MW), U1-3/15 ( C ),U2-7/15 ( C )</b>						
1	Tuticorin JV - Madurai	PGCIL	D/C	400	304	Jan-12
<b>Uchpinda TPP, (2x360MW), PS,Chg, RKMPL, U1-10/15(C),U2-1/16(C),</b>						
1	Uchpinda - Kotra s/s (Raigarh) line	RKMPL	D/C	400	53	Oct-16
<b>Ukai Extn. (1x500 MW),PS,Guj,GSECL, U6-3/13(C)</b>						
1	Kosamba-Mobha line	GETCO	D/C	220	178	Mar-13
2	UKai-Kosamba	GETCO	D/C	400	145	Mar-13
3	LILO of Asoj - Ukai at Kosamba	GETCO	D/C	400	64	Jan-12
4	Kosamba-Chorania line	GETCO	D/C	400	460	Aug-14
<b>Unchahar IV TPS (500 MW), PS,UP,NTPC, U6-03/17(C)</b>						
1	Unchahar - Fatehpur line (PUTL-TBCB)	PGCIL	D/C	400	107	Sep-16
<b>UNO Sugan(382.5 MW), PS, Porrent Energy, Module-1-01/13</b>						
1	LILO of Sugan TPS- Pirana line	TPAEC	D/C	400	1	Dec-12
<b>URI-II HEP (4x60 MW), CS,J&amp;K,NHPC,U1-9/13(C),U2-11/13(C),U3-9/13(C),U4-2/14 ( C )</b>						
1	URI II -Wagoora	PGCIL	S/C	400	105	Dec-11
2	URI I - URI II	PGCIL	S/C	400	11	Aug-11
<b>VallureTPS. (2x500 MW),CS,TN,NTPC, U2-2/13(c), U3-2/14 ( C )</b>						
1	Vallure TPS - Melakottaiyur line	PGCIL	D/C	400	71	Mar-13
2	LILO of Alamathy - Sriperumbdur at Vallure TPS	PGCIL	D/C on M/C	400	131	Jul-11
3	Tiruvelam (PG) - Chittoor	PGCIL	D/C	400	42	Mar-14
4	Vallur JV Project-NCTPS St.II	TANTRAN SCO	D/C	400	7	Aug-12
<b>Vindhyachal-IV &amp; V (3X500MW) ,CS,MP,NTPC, U11-6/12(C) C), U12-3/13(C), U13-08/15 ( C )</b>						
<b>Rihand - III,(2X500MW ) U5-5/12 ( C ), U6-10/13(C)</b>						
1	Sasan - Vindhyachal Pooling Station line	PGCIL	S/C	765	12	Dec-12
2	Sasan - Vindhyachal Pooling station	PGCIL	D/C	400	12	Dec-12
3	Rihand - Vindhyachal P Stn (2nd Ckt)	PGCIL	D/C	765	31	Aug-15
4	Bassi (PG)-Jaipur (RVPN) 765 KV line	PGCIL	D/C	400	97	Dec-13
5	Rihand - Vindhyachal P Stn (1st Ckt)	PGCIL	S/C	765	31	Jun-14
6	Gwalior - Jaipur (Ckt 1)	PGCIL	S/C	765	305	Aug-15
7	Vindhyachal-IV - Vindhyachal Pooling Station line (Q)	PGCIL	D/C	400	58	Dec-12
8	Satna - Gwalior line (Ckt-I)	PGCIL	S/C	765	337	Feb-14
9	Vindhyachal Pooling Stn. - Satna Ckt-II	PGCIL	S/C	765	271	Aug-15
10	Vindhyachal Pooling Station - Satna line (2 Km D/C Portion) Ckt-I	PGCIL	D/C+ S/C	765	271	Mar-15
11	Satna - Gwalior line (60 Km D/C) Ckt-II	PGCIL	D/C+	765	300	Aug-14



			S/C			
12	Vindhyachal Pooling Station	PGCIL		765/400	3000	Aug-15
<b>Vizag (Hinduja National Power) (2x520MW),PS,AP,U1-12/15 (C), U2-3/16 (C)</b>						
1	Kamavarrapukota-Chinnakorukondi (Kamavarapukota - Surypet)	APTRANS CO	D/C	400	179	Oct-16
2	Chinnakorukondi – Suryapet (Kamavarapukota - Surypet)	TSTRANS CO	D/C	400	170	Oct-16
3	Vizag TPP(HNPCL) - Kamavarapukota	APTRANS CO	D/C	400	486	Jun-17
4	Kamavarapukota s/s	APTRANS CO		400/ 220	630	Mar-17
5	Shankarpally (Extn.)	TSTRANS CO		400/ 220	630	Feb-17
6	Suryapet S/S	TSTRANS CO		400/ 220	630	Mar-16
<b>Yermarus TPS (2 x 800 MW), Karnataka, KPCL, U1-3/16 (C),U2-3/17 (C)</b>						
1	Yermarus TPS - Bellary Pooling Station	KPTCL	D/C	400	285	Mar-18
2	Bellary (PS) - New Madhugiri	KPTCL	D/C	400	450	Jun-17
3	Yermarus TPS - Gulbarga	KPTCL	D/C	400	150	Sep-19
4	Gulbarga S/S	KPTCL		400/ 220	1000	Sep-19
5	LILO of BTPS-RTPS 400 kV line at Yermarus TPS	KPTL	D/C	400	60	Feb-16 (Interim connectivity)