



GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY

TRANSMISSION CAPACITY ADDITION
DURING 10TH PLAN (2002-07)
AND
PROGRAMME OF CONSTRUCTION
FOR 11TH PLAN
FOR 2007-08 (ALL INDIA) &
2008-12 (CENTRAL SECTOR)



POWER SYSTEM PROJECT MONITORING DIVISION

SEPTEMBER, 2007

NEW DELHI

**GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY**



**TRANSMISSION CAPACITY ADDITIONS
DURING 10TH PLAN (2002-07)
AND
PROGRAMME OF CONSTRUCTION
DURING XI PLAN (2007-12)
IN INDIA**

POWER SYSTEM PROJECT MONITORING DIVISION

JULY, 2007

NEW DELHI





RAKESH NATH

Chairperson

Central Electricity Authority &

Ex-Officio Secretary to Govt. of India



FOREWORD

The report "Transmission Capacity Addition during 10th Plan and Programme of Construction for 11th 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 all 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 10th Plan period. During this period, about 46,000 ckm EHV lines and 77,700 MVA/MW transformation capacity was added in the country against the programme of 81,700 ckm EHV lines and 1,28,430 MVA/MW transformation capacity envisaged as per the 'Report of Working group on Power'. The reduction in the transmission system capacity was matching with the capacity addition of 21,180 MW achieved during the 10th Plan against the original programme of 41,110 MW.

For 11th Plan period, a target of 95,283 ckm EHV lines and 1,82,561 MVA/MW transformation capacity have been proposed as per 'National Electricity Plan'. All the transmission schemes of central sector proposed for commissioning during the 11th plan have been included in the report. The report also contains the construction programme for the year 2007-08 for intra-state and inter-state transmission system.

It is hoped 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.

NEW DELHI
September, 2007

(RAKESH NATH)

**TRANSMISSION CAPACITY ADDITIONS DURING 10TH PLAN (2002-07) AND
PROGRAMME OF CONSTRUCTION FOR 2007-08 (ALL INDIA)
& 2008-12 (CENTRAL SECTOR)**

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CHAPTER – 1

EXECUTIVE SUMMARY

1.1 INTRODUCTION :

The role of electricity sector in an economy hardly needs to be emphasised. Most of the regions in the country are suffering from acute shortages of electricity and thus the capacity additions and its utilization in the most economic manner remains the most important aspects of the power development.

An extensive network of transmission and distribution has been developed over the years for evacuating power produced and utilizing the same by the ultimate consumers. The new capacity additions in generation further call for additions in the transmission systems. The Power System Project Monitoring Division in the Central Electricity Authority is continuously monitoring these additions in the transmission schemes.

1.2 MONITORING

Monitoring is a control function. The objective is realized through the managerial techniques of “Planning & Control”. The two deliberative elements of Planning & Control are essential to every phase of capacity additions in the transmission systems. They are inter-dependent functions, for the one loses its significance without the other.

The primary responsibility arising under the planning element is the determination of the Programme of Construction 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 and various statutory clearances to undertake construction works etc. Once the construction programme for the year is decided and distributed properly into the four quarters of the year, the control function comes into play.

The control function is generally exercised by comparing of actual results with pre-determined programme or targets and taking corrective measures where deviation occurs. There are several phases to the effective use of monitoring functions, the achievements of programme is certainly of first importance.

1.3 ROLE OF CEA

The Central Electricity Authority is a vital Institute in promoting and assisting the timely completion of the transmission schemes. The Power System Project Monitoring

Division which acts as a facilitator in expediting construction of the transmission schemes and renders valuable help to the Utilities in solving their problems like technical, financial and arranging various clearances like forest clearance from MOE&F, Air Port Authority, Railway etc. 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 six 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 and fund utilized during the 10th plan period. During this period about **46000 ckm.** of EHV lines and transformation capacity of **77700 MVA/MW** was added in the country and expenditure of Rs. 44740 crores incurred.

Chapter-3 presents the transmission lines and transformation capacity additions (220 kV and above) during various plan periods till the end of 10th plan in India.

Chapter-4 presents the fund requirements for transmission schemes (220 kV and above) during 11th Plan period. The requirement of funds for transmission systems represents the indicative figure of Rs. 1, 40,000 crores.

Chapter-5 have the construction programme of the transmission schemes (220 kV & above) for the year 2007-08 of all the utilities. A total of 12508 ckm. EHV lines and 25624 MVA/MW transformation capacity has been programmed for addition in the year. This chapter also contains construction programme of the transmission schemes for year 2008-12 (Central Sector) as provided by CPUs.

Chapter-6 indicates the detail of Generation Project wise Transmission Schemes of 11th Plan.

CHAPTER – 2

TRANSMISSION CAPACITY ADDITION & FUND UTILIZED DURING 10TH PLAN PERIOD (2002-07)

The programme for construction of transmission works as per the report of working group for power during the 10th plan period for evacuation of power from generating stations as well as for system strengthening, 81,700 ckm of EHV transmission lines and 1,28,430 MVA/MW transformation capacity was envisaged. The capacity finally added was about **46000 ckm** EHV lines and **77700 MVA/MW** transformation capacity. The details are furnished below:-

A. TRANSMISSION LINES:-							(All fig. In CKM)
Transmission capacity addition during 10th plan period							
	10th plan	Achievement					Total
	Targets	2002-03	2003-04	2004-05	2005-06	2006-07	10th plan
765 kV	1158	33	102	22	287	580	1024
±500kVHVDC	1134	1134	0	0	0	0	1134
400 kV	23025	3804	3288	5052	6260	7940	26344
220 kV	16025	3019	3728	2795	2871	5223	17636
Total	41342	7990	7118	7869	9418	13743	46138
B. SUBSTATIONS:-							(All fig. In MW / MVA)
765 kV	2331	0	0	0	0	0	0
HVDC TERM.	4000	2000	2000	0	0	0	4000
HVDC B/B	1000	500	0	500	0	0	1000
400 kV	35390	4995	4465	3650	10265	9187	32562
220 kV	34171	5465	8422	9162	7505	9580	40134
Total	76892	12960	14887	13312	17770	18767	77696

Growth during 10th plan period :-

The growth of transmission line capacity during the 10th plan period vis-à-vis 9th plan period was 135.32%. Similarly, the growth in transformation capacity during the same plan period was 138.37%. The year wise and voltage wise performance indices of transmission lines and transformation capacity are furnished below:

PERFORMANCE INDICES OF TRANSMISSION LINES ADDITION DURING 10TH PLAN PERIOD VIS-À-VIS 9TH PLAN PERIOD

Voltage Level	9th plan	10th plan	Growth over 9th plan period in %age
765 kV	1160	1024	-
±500 kV HVDC	2304	1134	-
400 kV	13236	26344	99.03
220 kV	17393	17636	1.39
Total	34093	46138	35.32

PERFORMANCE INDICES OF TRANSFORMATION CAPACITY ADDITION DURING 10TH PLAN PERIOD VIS-À-VIS 9TH PLAN PERIOD

Voltage Level	9th plan	10th plan	Growth over 9th plan period in %age
±500 kV HVDC TER.	2000	4000	100.00
HVDC B/B	1500	1000	-
400 kV	20460	32562	59.14
220 kV	32187	40134	24.69
Total	56147	77696	38.37

Salient features of 10th Plan

The emergence of 765 kV voltage level in the Indian Power System was an important milestone during this plan period as 1024 Ckm of 765 kV lines were constructed though these are expected to be operated presently at 400 kV. Besides the above 1000 MW B/B sub-stations at following locations were also added to facilitate the regulated transfer of power between the regions:

- a) Sasaram (500 MW)
- b) Gazuwaka (500 MW) (Pole-II)

The Utility wise and year wise achievements for 10th plan period are furnished in table 2.1 & 2.2. The complete details of the transmission lines and transformation capacity completed in all respects are furnished in Annexure – I & II respectively.

Fund utilized during 10th Plan:

The requirement of funds for transmission systems 220 kV and above, (66 kV and above in North-Eastern Region) for 10th Plan period works out to be **Rs 44740 crores** excluding the states of Sikkim who could not furnish their proposals. Table 2.3 depicts the Utilitywise fund utilized for transmission schemes in 10th Plan period (2002-07).

Brief evaluation of transmission construction regime during 10th plan: -

In spite of the fact that programme envisaged during various years of the 10th plan period have been met, yet there still remains some inadequacies/missing links/bottlenecks at the end of the 10th plan from the planning perspective and thus affecting the stability of the Power System network. The main constraints dominated in 10th plan for transmission works are as follows:

1. Delay in land acquisition.
2. Lack of provision of land compensation in the Act for transmission lines.
3. Delay in the commissioning of the generating projects.
4. Availability of funds with the utilities.
5. Contractual, ROW, law and order problems and court cases.
6. Delay in forest clearance.
7. Dropping of transmission works by the utilities on account of non-development of the load in the area/region.
8. Delay in Railway clearance.
9. Delay in Airport authority clearance.
10. Delay in Defence clearance.
11. Inter utility coordination problems.
12. Problem of transportation of heavy equipments in hilly areas.
13. Problem of theft of tower parts and conductor etc.
14. Shortage of equipment manufacturers.
15. Delay in supply of equipments.
16. Shortage of skilled and semi skilled man power.
17. Shortage of T&P.
18. Abandoning site by contractor.
19. Delay in approval of Design/Drawings
20. Delay in custom clearance of imported equipments
21. Inadequate number of bidders

TABLE - 2.1

TARGETS VS ACHIEVEMENTS - DURING 10TH FIVE YEAR PLAN

TRANSMISSION LINES (CKM)

Voltage kV	Name of the Utility	2002-03		2003-04		2004-05		2005-06		2006-07		Total 10th plan	
		P	A	P	A	P	A	P	A	P	A	P	A
765	POWERGRID (CS)	173	33	149	102	71	22	105	287	660	580	1158	1024
	Total (All India)	173	33	149	102	71	22	105	287	660	580	1158	1024

+/-500	POWERGRID (CS)	1134	1134	0	0	0	0	0	0	0	0	1134	1134
	Total (All India)	1134	1134	0	0	0	0	0	0	0	0	1134	1134

400	POWERGRID	2560	3424	1877	2173	3771	4351	3230	5120	6509	6579	17947	21647
	DVC	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL (CS)	2560	3424	1877	2173	3771	4351	3230	5120	6509	6579	17947	21647
	Delhi	0	0	0	106	0	0	0	0	0	0	0	106
	Himachal Pradesh	0	0	114	114	0	0	0	0	0	0	114	114
	Haryana	0	0	0	0	0	0	0	0	0	0	0	0
	J&K	0	0	0	0	0	0	0	0	0	0	0	0
	Punjab	0	0	0	0	0	0	0	0	0	0	0	0
	Rajasthan	0	0	327	329	0	0	210	0	250	231	787	560
	Uttar Pradesh	0	0	0	0	0	0	140	675	20	46	160	721
	Uttarakhand	0	0	0	0	0	0	60	0	60	118	120	118
	TOTAL (NR)	0	0	441	549	0	0	410	675	330	395	1181	1619
	Chattisgarh	0	0	0	0	0	0	0	0	0	0	0	0
	Daman-UT	0	0	0	0	0	0	0	0	0	0	0	0
	DNH-UT	0	0	0	0	0	0	0	0	0	0	0	0
	Gujarat	64	49	16	13	0	0	150	66	155	141	385	269
	Goa	0	0	0	0	0	0	0	0	0	0	0	0
	Madhya Pradesh	150	21	338	245	254	241	0	0	0	0	742	507
	Maharashtra	31	43	131	118	20	9	0	11	211	9	393	190
	TOTAL (WR)	245	113	485	376	274	250	150	77	366	150	1520	966
	Andhra Pradesh	168	130	520	136	536	310	60	337	44	61	1328	974
	Karnataka	3	0	0	0	0	0	0	0	0	0	3	0
	Kerala	0	0	0	0	0	0	0	0	0	0	0	0
	Tamilnadu	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL (SR)	171	130	520	136	536	310	60	337	44	61	1331	974
	Bihar	0	0	0	0	0	0	0	0	0	0	0	0
	Orissa	200	137	40	32	95	141	0	2	39	16	374	328
	West Bengal	22	0	22	22	0	0	0	49	660	739	704	810
Jharkhand	-	-	-	-	-	-	0	0	0	0	0	0	
TOTAL (ER)	222	137	62	54	95	141	0	51	699	755	1078	1138	
Arunachal pradesh	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL (NER)	0	0	0	0	0	0	0	0	0	0	0	0	
Total (SS)	638	380	1508	1115	905	701	620	1140	1439	1361	5110	4697	
Total (All India)	3198	3804	3385	3288	4676	5052	3850	6260	7948	7940	23057	26344	

Voltage kV	Name of the Utility	2002-03		2003-04		2004-05		2005-06		2006-07		Total 10th plan	
		P	A	P	A	P	A	P	A	P	A	P	A
220	POWERGRID	8	76	486	313	72	76	0	49	0	28	159	542
	DVC	60	57	0	0	0	0	100	80	268	78	65	215
	Total (CS)	68	133	486	313	72	76	100	129	268	106	224	757
	Chandigarh	-	-	-	-	-	-	0	0	72	72	72	72
	Delhi	49	45	15	9	16	0	33	40	32	9	145	103
	Himachal Pradesh	19	19	0	0	11	11	20	0	74	9	124	39
	Haryana	75	72	278	282	129	320	300	306	308	442	1090	1422
	J&K	0	0	0	0	0	0	0	0	0	0	0	0
	Punjab	271	120	106	96	69	80	210	215	325	93	981	604
	Rajasthan	55	181	226	208	394	606	390	658	381	384	1446	2037
	Uttar Pradesh	17	58	228	317	59	12	180	221	392	452.6	876	1061
	Uttarakhand	24	24	0	0	0	0	120	0.1	355	28.65	499	52.75
	Total (NR)	510	519	853	912	678	1029	1253	1440	1939	1490	5233	5390
	Chattisgarh	15	8	4	17	28	0	90	27	47	499	184	551
	Daman-UT	0	12	0	0	0	0	0	0	0	0	0	12
	DNH-UT	0	40	0	0	0	0	0	0	0	0	0	40
	Gujarat	234	198	675	633	103	79	210	98	361	599	1583	1607
	Goa	88	38	54	54	0	0	0	0	0	0	142	92
	Madhya Pradesh	100	88	9	10	40	18	205	205	189	765	543	1086
	Maharashtra	216	295	445	442	343	184	175	162	384	451	1563	1534
	TOTAL (WR)	653	679	1187	1156	514	281	680	492	981	2314	4015	4922
	Andhra Pradesh	593	804	310	177	163	123	180	46	222	103	1468	1253
	Karnataka	323	86	265	369	336	283	130	130	211	63	1265	931
	Kerala	3	5	3	0	3	0	75	79	19	0	103	84
	Tamilnadu	266	375	205	206	303	203	120	143	166	499.8	1060	1427
	TOTAL (SR)	1185	1270	783	752	805	609	505	398	618	665.8	3896	3695
	Bihar	10	0	10	114	70	114	0	142	60	0	150	370
	Orissa	466	340	75	211	260	289	105	150	279	494	1185	1484
	West Bengal	132	78	153	251	30	10	90	95	88	153	493	587
	Jharkhand	0	0	0	0	0	0	0	0	10	0	10	0
	TOTAL (ER)	608	418	238	576	360	413	195	387	437	647	1838	2441
	Arunachal pradesh	0	0	19	19	0	0	0	0	0	0	19	19
	Assam	0	0	0	0	0	0	5	25	25	0	30	25
TOTAL (NER)	0	0	19	19	0	0	5	25	25	0	49	44	
Total (SS)	2956	2886	3080	3415	2357	2719	2638	2742	4000	5117	15031	16879	
Total (All India)	3024	3019	3566	3728	2429	2795	2738	2871	4268	5223	16025	17636	

Voltage kV	Name of the Utility	2002-03		2003-04		2004-05		2005-06		2006-07		Total 10th plan	
		P	A	P	A	P	A	P	A	P	A	P	A

TABLE - 2.2

TARGETS VS ACHIEVEMENTS - DURING 10TH FIVE YEAR PLAN

SUB-STATIONS (MVA/MW)

Voltage kV	Name of the Utility	2002-03		2003-04		2004-05		2005-06		2006-07		Total 10th plan	
		P	A	P	A	P	A	P	A	P	A	P	A
765	POWERGRID (CS)	0	0	0	0	0	0	0	0	2331	0	2331	0
	Total (All India)	0	0	0	0	0	0	0	0	2331	0	2331	0

HVDC TERM.	POWERGRID (CS)	2000	2000	2000	2000	0	0	0	0	0	0	4000	4000
	Total (All India)	2000	2000	2000	2000	0	0	0	0	0	0	4000	4000

HVDC B/B	POWERGRID (CS)	500	500	0	0	500	500	0	0	0	0	1000	1000
	Total (All India)	500	500	0	0	500	500	0	0	0	0	1000	1000

400	POWERGRID	3335	3650	2205	1260	2205	1890	3885	4725	6615	5355	18245	16880
	DVC	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL (CS)	3335	3650	2205	1260	2205	1890	3885	4725	6615	5355	18245	16880
	Delhi	315	0	0	315	315	0	315	630	0	315	945	1260
	Himachal Pradesh	0	0	0	0	0	0	0	0	0	0	0	0
	Haryana	0	0	0	0	0	0	0	0	0	0	0	0
	J&K	0	0	0	0	0	0	0	0	0	0	0	0
	Punjab	0	0	0	0	0	0	0	0	0	0	0	0
	Rajasthan	630	315	945	315	945	630	0	315	0	0	2520	1575
	Uttar Pradesh	0	0	0	0	315	0	630	945	630	630	1575	1575
	Uttarakhand	0	0	0	0	0	0	315	0	630	630	945	630
	TOTAL (NR)	945	315	945	630	1575	630	1260	1890	1260	1575	5985	5040
	Chattisgarh	0	0	0	0	0	0	315	0	0	0	315	0
	Daman-UT	0	0	0	0	0	0	0	0	0	0	0	0
	DNH-UT	0	0	0	0	0	0	0	0	0	0	0	0
	Gujarat	0	0	0	0	0	0	0	315	630	945	630	1260
	Goa	0	0	0	0	0	0	0	0	0	0	0	0
	Madhya Pradesh	0	0	0	0	0	315	0	630	0	0	0	945
	Maharashtra	0	630	1945	1445	500	500	315	0	420	482	3180	3057
	TOTAL (WR)	0	630	1945	1445	500	815	630	945	1050	1427	4125	5262
	Andhra Pradesh	0	0	0	0	315	0	630	1575	630	315	1575	1890
	Karnataka	315	0	630	1130	0	0	0	500	630	315	1575	1945
	Kerala	0	0	0	0	0	0	0	0	0	0	0	0
	Tamilnadu	0	400	0	0	0	315	315	0	630	200	945	915
	TOTAL (SR)	315	400	630	1130	315	315	945	2075	1890	830	4095	4750
	Bihar	0	0	0	0	0	0	0	0	0	0	0	0
	Orissa	630	0	0	0	630	0	0	630	0	0	1260	630
	West Bengal	0	0	630	0	0	0	735	0	315	0	1680	0
	Jharkhand	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL (ER)	630	0	630	0	630	0	735	630	315	0	2940	630
Assam	0	0	0	0	0	0	0	0	0	0	0	0	
Arunachal pradesh	0	0	0	0	0	0	0	0	0	0	0	0	
Total (NER)	0	0	0	0	0	0	0	0	0	0	0	0	
Total (SS)	1890	1345	4150	3205	3020	1760	3570	5540	4515	3832	17145	15682	
Total (All India)	5225	4995	6355	4465	5225	3650	7455	10265	11130	9187	35390	32562	

Voltage kV	Name of the Utility	2002-03		2003-04		2004-05		2005-06		2006-07		Total 10th plan	
		P	A	P	A	P	A	P	A	P	A	P	A
220	POWERGRID	100	100	250	50	360	200	0	160	800	0	1510	510
	DVC	50	50	0	0	100	300	500	350	100	200	750	900
	Total (CS)	150	150	250	50	460	500	500	510	900	200	2260	1410
	Chandigarh	-	-	-	-	-	-	0	0	0	0	0	0
	Delhi	300	200	250	250	200	300	600	400	500	400	1850	1550
	Himachal Pradesh	160	0	0	0	160	80	0	80	180	0	500	160
	Haryana	400	400	800	955	600	810	600	450	850	500	3250	3115
	J&K	0	0	0	0	0	0	0	0	0	0	0	0
	Punjab	400	500	450	350	500	400	900	100	750	200	3000	1550
	Rajasthan	0	250	490	550	300	420	300	900	100	500	1190	2620
	Uttar Pradesh	160	240	100	820	300	660	320	460	460	1300	1340	3480
	Uttarakhand	0	0	0	0	0	200	460	0	393	1160	853	1360
	TOTAL (NR)	1420	1590	2090	2925	2060	2870	3180	2390	3233	4060	11983	13835
	Chattisgarh	480	160	320	300	0	200	400	320	0	960	1200	1940
	Daman-UT	0	0	0	150	0	0	0	0	0	0	0	150
	DNH-UT	0	350	0	0	0	0	0	0	0	0	0	350
	Gujarat	350	250	600	500	400	1150	0	400	500	250	1850	2550
	Goa	100	100	100	0	100	0	150	0	0	150	450	250
	Madhya Pradesh	0	160	160	320	640	1120	640	680	480	960	1920	3240
	Maharashtra	275	775	700	1425	675	1745	475	855	525	1250	2650	6050
	TOTAL (WR)	1205	1795	1880	2695	1815	4215	1665	2255	1505	3570	8070	14530
	Andhra Pradesh	632	1100	600	732	300	100	200	200	400	600	2132	2732
	Karnataka	600	500	200	600	200	500	500	400	500	800	2000	2800
	Kerala	0	0	100	100	100	0	200	300	200	0	600	400
	Tamilnadu	150	50	100	200	300	100	400	700	300	300	1250	1350
	TOTAL (SR)	1382	1650	1000	1632	900	700	1300	1600	1400	1700	5982	7282
	Bihar	100	0	0	0	0	0	0	200	200	0	300	200
	Orissa	600	120	0	0	400	200	200	140	400	0	1600	460
	West Bengal	320	160	1280	1120	800	640	600	160	320	0	3320	2080
	Jharkhand	-	-	-	-	-	-	0	0	0	0	0	0
	TOTAL (ER)	1020	280	1280	1120	1200	840	800	500	920	0	5220	2740
	Assam	25	0	0	0	25	37	275	250	225	50	550	337
	Arunachal pradesh	0	0	33	0	33	0	0	0	0	0	66	0
TOTAL (NER)	25	0	33	0	58	37	275	250	225	50	616	337	
Total (SS)	5052	5315	6283	8372	6033	8662	7260	6995	7283	9380	31911	38724	
Total (All India)	5202	5465	6533	8422	6493	9162	7760	7505	8183	9580	34171	40134	

TABLE 2.3

(As on March 2007)

FUNDS UTILIZED FOR TRANSMISSION SCHEMES FOR X TH PLAN PERIOD

All figures in Rs. Crores

Sl. No.	Name of the Utility	Transmission Works					Total 10th plan	Remarks
		Actual 2002-03	Actual 2003-04	Actual 2004-05	Proposed 2005-06	Proposed 2006-07		
I State Sector								
a. Northern Region								
1	Chandigarh	4		5	6	3	18	
2	DTL	57	67	104	66	31	325	
3	HPSEB	38	35	21	33	155	282	
4	HVPN	61	96	106	101	223	586	
5	PDD, J&K	4	2	22	34	12	74	
6	PSEB	133	87	94	207	198	718	Including R&M
7	RVPN	276	359	256	337	476	1704	Including R&M
8	UPPCL	168	200	545	525	355	1793	
9	Uttarakhand	61	10	67	184	84	405	Including R&M
	Total N.R.	801	856	1219	1493	1536	5905	
b. Western Region								
1	CSEB	19	5	23	63	434	543	Including R&M
2	GETCO	13	16	15	51	128	222	Including R&M
3	GOA	42	4	2	10	17	75	Including R&M
4	MPPTCL	61	142	110	138	500	951	Including R&M
5	MSETCL	198	210	220	90	511	1229	Including R&M
6	D&D	7	23	0	0	6	35	Including R&M
7	DNH	20	0	0	5	0	25	Including R&M
	Total W.R.	360	400	371	355	1595	3081	
c. Southern Region								
1	APTRANSCO	452	266	395	294	526	1933	Including R&M
2	KPTCL	308	515	475	436	1755	3489	Including R&M
3	KSEB	63	183	205	253	228	933	Including R&M
4	TNEB	187	274	212	358	814	1845	Including R&M
5	Puducherry	7	9	8	10	11	45	Including R&M
	Total S.R.	1017	1248	1294	1350	3335	8245	
d. Eastern Region								
1	BSEB	0	0	192	510	552	1254	
2	OPTCL	899	969	1030	1059	1110	5067	
3	JSEB	6	2	0	9	177	194	
4	WBSEB	153	93	94	109	502	951	
5	Sikkim	-	-	-	-	-	0	Not furnished
	Total E.R.	1059	1064	1315	1687	2341	7465	
e. N-E Region								
1	Arunachal Pradesh	22	22	24	25	32	124	
2	ASEB	23	14	36	51	100	224	
3	Manipur	2	2	7	0	0	12	
4	MeSEB	3	17	8	24	89	140	
5	Mizoram	0	0	0	0	0	0	
6	Nagaland	0	0	42	25	11	79	
7	Tripura	1	1	2	0	6	11	
	Total N-E Region	50	56	120	125	238	590	
II Central Sector								
1	PGCIL	2765	2421	3222	4134	5645	18187	Including JV
2	JV with PGCIL						923	Excl equity of PG
3	DVC	36	64	59	65	121	345	
	Total C.S. & JV	2800	2485	3282	4198	5766	19454	
	Total all India	6087	6108	7601	9209	14811	44740	

DETAILS OF THE TRANSMISSION LINES ADDED DURING X PLAN (2002-07)

SL NO	NAME OF THE LINE	TYPE	AGENCY	LENGTH (CKM)	MONTH OF COMPLETION
1	2	3	4	5	6
I. 765 KV					
1	Tehri-Meerut (Line-I) (operated at 400 kV)	S/C	POWERGRID	186	Jul-06
2	Tehri-Meerut (Line-II)(operated at 400 kV)	S/C	POWERGRID	184	Jul-06
3	Agra - Gwalior - I (operated at 400 kV)	S/C	POWERGRID	128	Mar-07
4	Bina - Gwalior (operated at 400 kV)	S/C	POWERGRID	235	Mar-07
Total 765 kV (PG)CS				733	
II. +/-500 KV HVDC					
1	Talchar-Kolar		POWERGRID	1369	Jul-02
Total HVDC (PG) CS				1369	
III. 400 KV					
1	Kolar - Arakkonam (KAR portion)	S/C	POWERGRID	161	Jun-02
2	Arakkonam - Chennai (TN portion)	S/C	POWERGRID	45	Jun-02
3	LILO of Bongaigaon-Malda(ckt-I) at Siliguri	D/C	POWERGRID	10	Jul-02
4	Raipur-Kanakturna (WR portion)	D/C	POWERGRID	456	Sep-02
5	Palakkodu - Salem	S/C	POWERGRID	84	Oct-02
6	Kolar - Hoody	D/C	POWERGRID	102	Oct-02
7	Kolhapur - Mapusa	D/C	POWERGRID	300	Oct-02
8	Meerut - Mandaula	S/C	POWERGRID	120	Dec-02
9	Jamshedpur - Rourkela (2nd ckt)	S/C	POWERGRID	130	Dec-02
10	Kolar - Hosur-Palakkoddu	S/C	POWERGRID	181	Feb-03
11	LILO of Bassi-Ballabgarh at Bhiwadi	D/C	POWERGRID	70	Feb-03
12	Kanakturna-Raurkela (ER portion)	D/C	POWERGRID	369	Feb-03
13	Vijaywada-Upallpadu	D/C	POWERGRID	328	Feb-03
14	Uppalpadu-Nellore	D/C	POWERGRID	354	Feb-03
15	Nellore-Sriperumbudur	D/C	POWERGRID	378	Feb-03
16	Talcher-Meramundali	D/C	POWERGRID	102	Apr-03
17	Salem - Udumalpet	S/C	POWERGRID	138	May-03
18	Agra(PGCIL)-Agra(UPPCL)	D/C	POWERGRID	60	Jun-03
19	LILO of Chamera- Kishenpur S/C at Chamera-II	D/C	POWERGRID	70	Jun-03
20	LILO of Bongaigaon-Malda(ckt2)at purnea(new)D/C	D/C	POWERGRID	122	Nov-03
21	Meramundali-jeyapore	S/C	POWERGRID	457	Dec-03
22	Khammam Nagarjunnasagar	S/C	POWERGRID	143	Mar-04
23	LILO of Devangere- Hoody D/C(both) at Hirriyur	D/C	POWERGRID	5	Mar-04
24	Ramagundam-Hyderabad	D/C	POWERGRID	402	Nov-04
25	Kahalgaon-Biharsharif (2nd line)	D/C	POWERGRID	414	Dec-04
26	LILO of Itarsi-Dhule at Khandwa	D/C	POWERGRID	115	Jan-05
27	Rihand-Allahabad	D/C	POWERGRID	560	Feb-05
28	Tarapur 3&4 -Padghe	D/C	POWERGRID	182	Mar-05
29	Vijayawada-Sitanagaram	D/C	POWERGRID	270	Mar-05
30	Sitanagaram-Gazuwaka	D/C	POWERGRID	362	Mar-05
31	Hyderabad-Kurnool-Gooty	S/C	POWERGRID	307	Mar-05
32	LILO of Kolaghat-Rengali at Baripada	D/C	POWERGRID	38	Mar-05
33	Gooty-Neelmangla	S/C	POWERGRID	253	Mar-05
34	Series compensation on Gooty-Neelmangla at Gooty		POWERGRID		Mar-05
35	Mainpuri-Ballabgarh	D/C	POWERGRID	472	May-05
36	Tarapur 3&4 - Boisor	D/C	POWERGRID	41	May-05
37	Allahabad-Kanpur-Mainpuri	D/C	POWERGRID	726	Jun-05
38	LILO of Bongaigaon-Malda at Siliguri	D/C	POWERGRID	10	Jun-05
39	Dhauliganga (NHPC)-Bareilly (UPPCL)	D/C	POWERGRID	466	Jul-05
40	Raipur-Chandrapur	D/C	POWERGRID	691	Jul-05
41	Madurai-Thiruvananthapuram	D/C	POWERGRID	431	Jul-05
42	LILO of Gandhar-Padghe at Boisor	D/C	POWERGRID	61	Aug-05
43	LILO of Gandhar-Padghe at Vapi	D/C	POWERGRID	6	Aug-05
44	Patiala-Malerkotla	S/C	POWERGRID	62	Oct-05
45	LILO of Nalagarh-Hissar at Kaithal	D/C	POWERGRID	64	Oct-05
46	LILO of Nalagarh-Hissar at Patiala	D/C	POWERGRID	23	Nov-05
47	Kaiga-Narendra	D/C	POWERGRID	216	Nov-05
48	LILO of Nagajurnsagar-Raichur at Mahboobnagar	D/C	POWERGRID	2	Nov-05
49	Dadri-Panipat	S/C	POWERGRID	117	Mar-06
50	Bhadrawati-Chandrapur Transmission System	D/C	POWERGRID	46	Apr-06
51	Bareilly-Mandoula (JVPG)	D/C	POWERGRID	474	Apr-06
52	LILO of Bongaigaon - Malda at Purnea	D/C	POWERGRID	116	May-06
53	Meerut - Muzaffarnagar	S/C	POWERGRID	38	May-06
54	Jalandhar-Amritsar	S/C	POWERGRID	60	May-06
55	LILO of 400 kV S/C Korba - Raipur at Sipat	D/C	POWERGRID	10	May-06

SL NO	NAME OF THE LINE	TYPE	AGENCY	LENGTH (CKM)	MONTH OF COMPLETION
1	2	3	4	5	6
56	Neelamangla - Mysore	D/C	POWERGRID	266	May-06
57	LILO of both ckt of Nellore - Sriperambudur at Almathi	D/C	POWERGRID	164	May-06
58	Siliguri - Purnea (Quad) (JVPG)	D/C	POWERGRID	320	Aug-06
59	Purnea - Muzaffarpur (Quad) (JVPG)	D/C	POWERGRID	478	Aug-06
60	Muzaffarpur - Gorakhpur (Quad) (JVPG)	D/C	POWERGRID	520	Aug-06
61	Gorakhpur - Lucknow (JVPG)	D/C	POWERGRID	492	Aug-06
62	Gorakhpur (UPPCL) - Gorakhpur (PG)	D/C	POWERGRID	92	Aug-06
63	Lucknow - Unnao	D/C	POWERGRID	148	Aug-06
64	Tala-Siliguri line-2 (Circuit-I)	D/C	POWERGRID	117	Aug-06
65	Vindhyachal-Satna (Ckt-I)	D/C	POWERGRID	258	Sep-06
66	Kishenpur-Wagoora	D/C	POWERGRID	388	Oct-06
67	LILO of Bawana-Bhiwani at Bahadurgarh	D/C	POWERGRID	34	Oct-06
68	Kanpur - Auraiya	D/C	POWERGRID	144	Oct-06
69	Biharshariff - Muzaffarpur	D/C	POWERGRID	262	Oct-06
70	Tala-Siliguri line-1(both ckts)	D/C	POWERGRID	196	Dec-06
71	Tala-Siliguri line-2 (Circuit-II)	D/C	POWERGRID	117	Dec-06
72	Vindhyachal - Satna (ckt - II)	D/C	POWERGRID	258	Dec-06
73	Agra - Jaipur	D/C	POWERGRID	435	Jan-07
74	Neelamangala - Somanahally	D/C	POWERGRID	84	Jan-07
75	Kahalgaon - Patna (Quad)	D/C	POWERGRID	514	Mar-07
76	Patna - Balia (Quad)	D/C	POWERGRID	390	Mar-07
77	Balia - Mau	D/C	POWERGRID	18	Mar-07
78	LILO of Satna-Bina(MPSEB) at Bina (PG)	D/C	POWERGRID	2	Mar-07
79	LILO of Farraka - Jeerat at Subashgram	D/C	POWERGRID	126	Mar-07
Total 400 kV (PG) CS				17043	
1	Bamnauli-Ballabgarh	D/C	DELHI	104	Sep-03
2	LILO of IP Extn.-BTPS at Sarita Vihar	D/C	DELHI	0.4	Jul-05
Total 400 kV DELHI				104	
1	Baspa-II-Nathpa Jhakhri (pvt. by JPIL)	D/C	HPSEB	114	May-03
Total 400 kV HPSEB				114	
1	Merta -Mandore	S/C	RVPN	116	Nov.-03
2	Jaipur-Merta	S/C	RVPN	213	Jan-04
Total 400 kV RVPN				329	
1	LILO of Rishikesh-Moradabad at Kashipur	D/C	UPCL	118	Dec-06
Total 400 kV UPCL				118	
1	LILO of Rishikesh-Muradnagar at Muzaffarnagar	D/C	UPPCL	40	Mar-06
2	Azamgarh-Gorakhpur	D/C	UPPCL	94	Mar-06
3	LILO of Dadri-Ballabgarh at Noida	D/C	UPPCL	3	Jun-06
4	Vishnu Prayag-Muzaffarnagar	D/C	UPPCL	520	Jul-06
Total 400 kV UPPCL				657	
Total 400 kV NR				1205	
1	SSNL-M.P. Border	D/C	GETCO	122	May-03
2	LILO of Wanakbori- Soja at Dehgaon	D/C	GETCO	13	Jul-03
3	LILO of Chorania-Jetpur at Rajkot	D/C	GETCO	119	Jul-06
Total 400 kV GETCO				254	
1	LILO of Satpura Indore at indira Sagar	D/C	MPPTCL	17	Jan-04
2	Sardar sarovar -Nagda	D/C	MPPTCL	431	Aug-04
3	Indira(Narmada Sagar)- Indore	D/C	MPPTCL	160	Nov-04
4	LILO Brarwaha-Nepanagar for Khandwa(400kV s/s)1st ckt	D/C	MPPTCL	53	Nov-04
Total 400 kV MPPTCL				661	
1	LILO of Karad- Parli at Solapur	D/C	MSEB	124	Aug-03
2	LILO of Lonikhand-New koyna at JeJur	D/C	MSEB	21	Mar-04
3	Diversion of Chandrapur-Korac	S/C	MSEB	7	May-06
4	Dabhol-New Koyna (2nd circuit)	S/C	MSEB	48	May-06
Total 400 kV MSEB				200	
Total 400 kV WR				1115	
1	400 kV Vizag S/S-Khammam 400 kV S/S	D/C	APTRANSCO	730	May-02
2	Jegrupadu CCPS-Vemagiri	D/C	APTRANSCO	13	Jun-05
3	Vemagiri CCPS-Vemagiri	D/C	APTRANSCO	4	Jun-05
4	LILO of Cuddapah-Madras at Chittoo	D/C	APTRANSCO	21	Jul-05
5	LILO of Tallapally-Raichur at Mahboobnaga	D/C	APTRANSCO	1	Jul-05
6	Vizag-Vemagiri-Nunne	D/C	APTRANSCO	614	Aug-05
7	Vemagiri - Konaseema CCPS	D/C	APTRANSCO	52	Sep-05
8	Gautami CCPS-Vemagiri	D/C	APTRANSCO	78	Sep-06
Total 400 kV APTRANSCO				1513	
1	Shimoga-Srirampura-Neelmangla	D/C	KPTCL	520	May-02
2	Link line at Talaguppa	D/C	KPTCL	2	May-03
Total 400 kV KPTCL				522	
Total 400 kV SR				2035	
1	LILO of KTPS-Durgapur S/C line at Arambagh	D/C	WBSEB	22	Nov.-03
Total 400 kV (WBSEB) ER				22	
Total 400 kV SS				4377	
Total 400 kV				21420	

SL NO	NAME OF THE LINE	TYPE	AGENCY	LENGTH (CKM)	MONTH OF COMPLETION
1	2	3	4	5	6
IV. 220 KV					
1	Allahabad-Rewa Road	D/C	POWERGRID	6	Nov-02
2	Purnea (New)-Purnea	D/C	POWERGRID	2	Nov-02
3	LILO of Modipuram-Muzaffarnagar at Meerut	D/C	POWERGRID	5	Nov-02
4	LILO of Modipuram-Simbholi at Meerut	D/C	POWERGRID	19	Jan-03
5	LILO of Birpara-Siliguri at Siliguri	D/C	POWERGRID	5	Feb-03
6	LILO of Panki-Naubasta at Kanpur	D/C	POWERGRID	30	Apr-04
7	Allahabad-Phulpur	S/C	POWERGRID	39	Apr-04
8	LILO of Dehri-Sahupuri at Sasaram	D/C	POWERGRID	9	Aug-04
9	Sasaram-Arrah-Khagaul	D/C	POWERGRID	322	Sep-04
10	Meerut (PGCIL) - Shatabdinagar	S/C	POWERGRID	8	Jan-05
11	Tarapur 3&4 - Boisior	S/C	POWERGRID	21	Sep-05
12	Muzaffarpur (PG)-Muzaffarpur (BSEB)	D/C	POWERGRID	48	Aug-06
Total 220 kv PG				514	
1	Mejia TPS-Maithon (Kalyaneshwari)	D/C	DVC	112	Feb-03
2	Mejia-Borjora	D/C	DVC	32	Jan-06
3	LILO of one ckt of 220 kv Kalyaneshwari-Mejia at Burnpur	D/C	DVC	16	Nov-06
4	Bokaro TPS - Ramgarh	D/C	DVC	110	Nov-06
Total 220 kv DVC				270	
Total 220 kv CS				784	
1	SOW-Kashmere Gate	D/C	DELHI	12	Dec-02
2	Bamnauli-Naraina	D/C	DELHI	34	Dec-02
3	LILO of Narela-Najafgarh at Bawana	D/C	DELHI	3.6	Dec-02
4	LILO of IP Extn-BTPS at Sarita Vihar	D/C	DELHI	0.4	Dec-02
5	LILO of Narela-Najafgarh line at Bawana	D/C	DELHI	4	Mar-04
6	Mandola 400kV S/S to Gopalpur	D/C	DELHI	13	Apr-04
7	Bawana-Rohini	D/C	DELHI	20	Sep-05
8	LILO of IP Extension-BTPS at Sarita Vihar	D/C	DELHI	0.4	Sep-05
9	South of Wazirabad-Kashmere Gate (Second circuit)	D/C	DELHI	5.5	Oct-05
10	Bamnauli-Papankalan-II	D/C	DELHI	21	Jun-06
11	LILO of Mandaula-Patparganj at South of Wazirabad	D/C	DELHI	3	Nov-06
Total 220 kv DELHI				117	
1	Khodri-Majri (2nd Ckt)	D/C	HPSEB	35	Dec-02
2	LILO of Kunihar-Panchkula at Baddi	D/C	HPSEB	11	Mar-05
Total 220 kv HPSEB				46	
1	LILO of Dadri-Narnaul at Mohindergarh	D/C	HVPN	4	Oct-02
2	LILO of Narwana-Sirsa SC at Fatehabad	D/C	HVPN	21	Jan-03
3	Dadri(BBMB)-Mohindergarh	S/C on D/C	HVPN	41	Apr-03
4	Hissar(PGCIL)-Fatehabad	D/C	HVPN	130	Jul-03
5	LILO of Panchkula-Shahbad at Tepla	2xD/C	HVPN	2	Nov.-03
6	Fatehabad-Rania	S/C on D/C	HVPN	61	Nov.-03
7	Kaithal-Cheeka	S/C on D/C	HVPN	40	Nov.-03
8	Abdullapur-Tepla	D/C	HVPN	61	Apr-04
9	Pali- Badshahpur	D/C	HVPN	46	Jul-04
10	Stg. Of 2nd ckt of Panipat TPP- Rohtak	S/C	HVPN	63	Nov-04
11	Stg. Of 2nd ckt of Panipat TPP- Sonapat	S/C	HVPN	51	Nov-04
12	Panipat TPS-Jind with 0.5 sqm"ASCR cond.	D/C	HVPN	134	Nov-04
13	LILO of both ckt of Panipat-Narwana at Saffidon	D/C	HVPN	8	Dec-04
14	Panipat TPS-Saffidon	D/C	HVPN	74	Dec-04
15	Palli-Gurgaon	D/C	HVPN	44	Dec-04
16	Hisar IA - Jind	D/C	HVPN	140	May-05
17	Badshahpur-Manesar	S/C on D/C	HVPN	12	Jun-05
18	TDLTPS, Panipat-Rohtak (Second circuit)	D/C	HVPN	63	Oct-05
19	LILO of one 1st ckt of Kaithal-Cheeka at 400 kv Kaithal S/S of PGCIL	S/C	HVPN	4	Dec-05
20	TDLTPS, Panipat-Sonapat (Second circuit)	D/C	HVPN	50	Mar-06
21	Saffidon-Jind	D/C	HVPN	90	Aug-06
22	Bahadurgarh (400 kv PGCIL) - Bahadurgarh	D/C	HVPN	6	Nov-06
23	Bahadurgarh (220 kv PGCIL) - Rohtak	D/C	HVPN	93	Nov-06
24	Bahadurgarh-Daulatabad	D/C	HVPN	60	Nov-06
25	Kaithal - Cheeka, (2nd Circuit) S/C on D/C	S/C	HVPN	38	Jan-07
26	LILO of one ckt of Badshahpur-Rewari at 400kv Bhiwadi	D/C	HVPN	42	Mar-07
27	Salimpur (Ladwa) - Nissing	D/C	HVPN	82	Mar-07
28	Badshapur - Daulatabad	D/C	HVPN	60	Mar-07
Total 220 kv HVPN				1520	
1	Strg of 2nd ckt of Moga-Muktsar	S/C	PSEB	71	Jun-02
2	GHTP-Bajakhana (Strng. of 1st ckt)	D/C	PSEB	29	Sep-02
3	LILO of ckt1 of 220 kv Nakodar-Jalandhar (PG) line at Kartarpur	D/C	PSEB	1	Apr-03
4	Nakodar-400 kv S/S Jalandhar(PGCIL) both ckt	S/C on D/C	PSEB	36	Apr-03
5	LILO of GGSSTP-Sahnewal at Kohara	D/C	PSEB	6	Jul-03
6	Fatehgarh Churian-Civil Lines Amritsar (2nd ckt strg)	D/C	PSEB	23	Jan-04

SL NO	NAME OF THE LINE	TYPE	AGENCY	LENGTH (CKM)	MONTH OF COMPLETION
1	2	3	4	5	6
7	LILO of one ckt of Moga-Muktsar at Bajakhana	D/C	PSEB	48	Jan-04
8	Nakodar-400 kV S/S Jalandhar(PGCIL) 1st ckt	S/C on D/C	PSEB	36	Mar-04
9	LILO of Fatehgarh Churian-Batala at Kotli Surat Malli (1st ckt) D/C	D/C	PSEB	18	May-04
10	Gobindgarh-I - Malerkotla	S/C	PSEB	45	Jul-04
11	GHTP Bajakhana(2nd ckt str)	S/C	PSEB	29	Aug-04
12	LILO of Patiala-Patran at Raja(1st ckt.)	D/C	PSEB	10	Dec-04
13	Jamsher-Nakodar (2nd ckt stringing)	S/C	PSEB	15	Dec-04
14	Patti-Verpal (Second circuit stringing)	S/C	PSEB	37.6	Nov-05
15	Patran-Sunam	S/C on D/C	PSEB	36	Jan-06
16	LILO of one ckt of Sarna-Wadala-Granthian line at Tibber	S/C	PSEB	0.55	Feb-06
17	LILO of Rajpura- Abowal at Phagan Majra 400kV PGCIL SS	D/C	PSEB	11.67	Jun-06
18	Civil Line - Khassa (2nd line)	S/C	PSEB	32	Jul-06
19	Verpal- Amritsar (Balachak (PGCIL))	D/C	PSEB	3	Aug-06
20	LILO of Rajpura-Abowal at 400 kV PGCIL Phagan Majra (Patiala)	2 x D/C	PSEB	43	Aug-06
21	Bathinda-Barnala	D/C	PSEB	14	Sep-06
Total 220 kV PSEB				545	
1	Bharatpur-Dholpur	S/C on D/C	RVPN	75	Oct-02
2	LILO of Anta-Dausa at Swai Madhopur	D/C	RVPN	14	Nov-02
3	LILO of Alwar-Bhiwadi to 400 kV Bhiwadi GSS (PG)	D/C	RVPN	8	Feb-03
4	Merta-Bhopalgarh	S/C	RVPN	57	May-03
5	LILO of Jodhpur-Bhilwara at Pali	D/C	RVPN	19	May-03
6	Line for realignment of Heerapura-Ajmer line	D/C	RVPN	8	Mar-04
7	LILO of Jodhpur - Beawar at Jodhpur	D/C	RVPN	49	Sep-04
8	Ramgarh-Phalodi	S/C	RVPN	215	Nov-04
9	Bassi-Kukas	D/C	RVPN	68	Dec-04
10	Ratangarh-Sujangarh	S/C	RVPN	48	Dec-04
11	LILO for Amarsagar	D/C	RVPN	16	Dec-04
12	Suratgarh TPS-Bikaner (Bikaner end)	S/C on D/C	RVPN	102	Jan-05
13	Ratangarh-Jhunjhunu	D/C	RVPN	152	May-05
14	Phalodi-Tinwari	S/C	RVPN	91	May-05
15	Jhunjhunu-Khetri	D/C	RVPN	98	Jun-05
16	Suratgarh TPS-Bikaner (Suratgarh end)	S/C on D/C	RVPN	59	Jun-05
17	LILO of Jodhpur-Tinwari at Jodhpur	D/C	RVPN	44	Jul-05
18	LILO of Sirohi-Balotra at Jalore	D/C	RVPN	2	Aug-05
19	Ratangarh-Sujangarh (Upgraded from S/C to D/C)	D/C	RVPN	110	Sep-05
20	Phulera-Makrana	D/C	RVPN	57	Dec-05
21	Jodhpur-Tinwari	D/C	RVPN	29	Mar-06
22	Balotra-Barmer	S/C	RVPN	108	Mar-06
23	Giral-Barmer (Line-I)	S/C	RVPN	32	Mar-06
24	Dholpur- Bharatpur 2nd circuit and diverting to Dholpur GTPS	S/C	RVPN	75	Mar-07
25	LILO of 1st circuit of Dholpur- Bharatpur at Dholpur GTPS	D/C	RVPN	1.3	Mar-07
26	Barmer-Dhorimanna	S/C	RVPN	72	Mar-07
Total 220 kV RVPN				1609	
1	C.B. Ganj(Bareilly)-Haldwani	S/C	UPCL	96	Dec-02
2	LILO of Rishikesh-Moradabad at Kashipur	D/C	UPCL	118	Dec-06
3	LILO of Rishikesh-Muzaffarnagar at 220 kV Sub-Station Roorkee	D/C	UPCL	0.05	Apr-05
4	LILO of Rishikesh-Nara at 220 kV Sub-Station SIDCUL	D/C	UPCL	0.05	Dec-05
5	LILO of Rishikesh-Muzaffarnagar at Hardwar	D/C	UPCL	0.07	Jul-06
6	LILO of Rishikesh-Nara at 220 kV SIDCUL, Hardwar	D/C	UPCL	0.14	Jul-06
7	LILO of Rishikesh-Muzaffarnagar at Roshnabad	D/C	UPCL	0.05	Aug-06
8	LILO of Bareilly-Haldwani at Pant Nagar	D/C	UPCL	18	Nov-06
Total 220 kV UPCL				232	
1	Fatehpur - Banda	S/C	UPPCL	67	Jun-02
2	LILO of Allahabad-Fatehpur (2nd ckt) at Alld Cantt.	D/C	UPPCL	9	Jun-02
3	LILO of Unnao-Panki at RPH	D/C	UPPCL	15	Dec-02
4	Sahibabad-Noida	S/C	UPPCL	8	Dec-02
5	LILO of Sarojininagar-Sitapur at Hardoi Rd	D/C	UPPCL	2	Apr-03
6	LILO of C.B. Ganj-Haldwani at 400 kV Bareilly	D/C	UPPCL	11	Apr-03
7	Bareilly(400kV)-Shahjahanpur	S/C	UPPCL	90	Aug-03
8	LILO of Sarojininagar-Sitapur at Chinhat	D/C	UPPCL	65	Apr-04
9	Gorakhpur - Deoria	S/C	UPPCL	35	Aug-04
10	Shatabdinagar-Simbhaoli	S/C	UPPCL	40	Jan-05
11	Muzaffarnagar (400 kV) - Modipuram	S/C	UPPCL	45	Jan-05
12	Shatabdinagar-Modipuram	D/C	UPPCL	57	Apr-05
13	Muzaffarnagar (400 kV)-Muzaffarnagar	S/C	UPPCL	12	Apr-05
14	Muzaffarnagar (400 kV)- Modipuram (WB)	D/C	UPPCL	45	Mar-06
15	LILO of Agra (400 kV)-Harduaganj at Hathruas	D/C	UPPCL	6	Mar-06
16	LILO of Paricha -Mainpuri at Orai(P)	D/C	UPPCL	80	Oct-06
17	LILO of Panki -Mainpuri at Chibramau	D/C	UPPCL	6	Oct-06
18	LILO of Mainpuri-Harduaganj (2nd circuit) at Mainpuri	D/C	UPPCL	37	Oct-06

SL NO	NAME OF THE LINE	TYPE	AGENCY	LENGTH (CKM)	MONTH OF COMPLETION
1	2	3	4	5	6
19	LILO of Mainpuri-Firozabad at Mainpuri	D/C	UPPCL	47	Mar-07
20	Shahjahanpur-Hardoi	D/C	UPPCL	142	Mar-07
21	LILO of Harduaganj-Narora at Atrauli	D/C	UPPCL	22	Mar-07
22	Greater Noida-Noida	D/C	UPPCL	24	Mar-07
23	Paricha-Orai	D/C	UPPCL	207	Mar-07
24	Gorakhpur (400kV)-Gorakhpur (220kV) interconnection	D/C	UPPCL	25.6	Mar-07
25	LILO of Gorakhpur-Basti at Gorakhpur (PG)	D/C	UPPCL	3	Mar-07
26	LILO of Sitapur-Chinhat at Chinhat (PG)	D/C	UPPCL	12	Mar-07
Total 220 kV UPPCL				1113	
Total 220 kV NR				5182	
1	Interconnection between Ph-I & Ph-II Korba (E)	D/C	CSEB	5	Nov-02
2	LILO Amarkantak - Korba atendra	D/C	CSEB	7	May-03
3	LILO of Bhilai - Barsoor (circuit -II) at Gurur	D/C	CSEB	13	Feb-04
4	Urla-Sibara (2nd Circuit)	S/C	CSEB	9	Dec-04
5	Urla-Rajendra Steel (2nd Circuit)	S/C	CSEB	2	Mar-05
6	LILO of Korba-Bhilai at Mopka	D/C	CSEB	28	Jun-05
7	LILO of Korba-Bhilai at Siltara	D/C	CSEB	14	Sep-06
8	Korba(E)-Korba(W) Interconnection	D/C	CSEB	3	Mar-07
Total 220 kV CSEB				81	
1	Bhilad-Kharadpada	D/C	D&D	12	Dec-02
2	Bhilad- Magarwada (Daman Part)	D/C	D&D	19.25	Dec-03
3	LILO of Tarapur- Navsari at Bhilad	D/C	D&D	0.5	Dec-03
Total 220 kV D&D				32	
1	Bhilad-Magarwada (DNH Part)	D/C	DNH	40	Mar-03
Total 220 kV DNH				40	
1	Kasod(Karamsad)-Mobha	D/C	GETCO	105	Jun-02
2	GSEC (Hazira)-Kim	D/C	GETCO	95	Aug-02
3	Sankhari-Jotana	D/C	GETCO	66	Aug-02
4	Zerda (Kansari)-Jangral	D/C	GETCO	74	Oct-03
5	Dahej- LNG Petronet 1st ckt	D/C	GETCO	8	Nov-03
6	LILO of Dharangadhra-Morbi (1st ckt.)at Holvad	D/C	GETCO	10	Nov-03
7	LILO Chatral- Viramgam D/C at Ranchadpura(Vadavi400kV S/S)	2XD/C	GETCO	14	Feb-04
8	Nanikhakhar-Chitrod	D/C	GETCO	277	Feb-04
9	Akhrimota-Nakhatrana	D/C	GETCO	228	Feb-04
10	Morbi-Chitrod	DCSS	GETCO	73	Mar-04
11	LILO of Sankhari(Deodar)-Anjar at Chitrod	D/C	GETCO	2	Apr-04
12	Viramgam - Dhanki	D/C	GETCO	61	Jul-04
13	Agiyol-Mathesur	D/C	GETCO	70	Nov-04
14	LILO of Anjar (Mehsana)-Deodar at Radhanpur	D/C	GETCO	7	Jan-05
15	Dahej-Indogulf Circuit No-I at New Switchyard of Indo-Gulf (upto Location 1)	D/C	GETCO	1	Mar-05
16	LILO of Vapi-Bhilad at Vapi 400 kV (PGCIL)	D/C	GETCO	16	May-05
17	Kansari-Dhanera	D/C	GETCO	55	Dec-05
18	LILO of Chorania-Jetpur at Rajkot	D/C	GETCO	119	Jul-06
19	Akrimota-Panandhro	D/C	GETCO	55	Aug-06
20	LILO of Savarkundla-Kovaya (1st ckt) at Pipavav	D/C	GETCO	5	Aug-06
21	Morbi-Chitrod (HOTLINE stringing) - II	S/C	GETCO	59	Nov-06
22	Vapi-Bhilad	D/C	GETCO	46	Mar-07
23	Vadavi (Ranchodpura 400 kV) - Mitha (Jotana)	D/C	GETCO	87	Mar-07
24	Moti paneli-Sadodar	D/C	GETCO	27	Mar-07
25	Suthari-Sindhor-Nani Khakher	D/C	GETCO	157	Mar-07
26	Kansari-Thavar(Dhanera) Ckt. No. 2	S/C	GETCO	27	Mar-07
Total 220 kV GETCO				1744	
1	Covale - Tivim	D/C	GOA	10	Nov-02
2	Covale - Ponda	D/C	GOA	82	May-03
Total 220 kV GOA				92	
1	Bansagar Tons -Rewa	D/C	MPPTCL	97	Oct-03
2	LILO of Sarni-Kalmeswar(Ambajari) at Pandurna	D/C	MPPTCL	1	Dec-03
3	Bhopal-Shujhalpur-IIInd ckt	D/C	MPPTCL	85	Jul-04
4	LILO of Indore-Ujjain for Indore-II	DCDS	MPPTCL	2	Oct-04
5	LILO Barwaha-NepanagarD/C for Khandwa(400kV S/S)	D/C	MPPTCL	100	Nov-04
6	LILO of Indore-Ratlam for Badnagar	D/C	MPPTCL	19	Dec-04
7	Sanawad-Nimrani(2nd ckt)	S/C	MPPTCL	62	Oct-04
8	LILO of Auraiya-Malanpur at Mehgaon	D/C	MPPTCL	2	Jan-05
9	Bhopal - Bairagarh(2nd circuit)	S/C on D/C	MPPTCL	17	Apr-05
10	Dhar-Rajgarh	S/C on D/C	MPPTCL	42	Dec-05
11	LILO of Birsinghpur TPS-Birsinghpur HEP at Birsinghpur S/S	D/C	MPPTCL	5	Feb-06
12	Bhopal-Bairagarh (2nd circuit)	S/C	MPPTCL	17	Mar-06
13	Indore-Dewas (2nd circuit)	S/C	MPPTCL	45	Mar-06
14	Narsingarh -Tikamgarh	S/C on D/C	MPPTCL	130	Oct-06
15	Nagda-Ratlam	S/C on D/C	MPPTCL	43	Nov-06

SL NO	NAME OF THE LINE	TYPE	AGENCY	LENGTH (CKM)	MONTH OF COMPLETION
1	2	3	4	5	6
16	Bina-Guna	D/C	MPPTCL	131	Dec-06
17	Bina-Shivpuri	D/C	MPPTCL	341	Feb-07
18	LILO of Satna-Katni at Satna 400 kV (PG)	D/C	MPPTCL	3	Feb-07
19	Omkareshwar-Sanawad	D/C	MPPTCL	46	Mar-07
Total 220 kV MPPTCL				1188	
1	LILO of Padambe-Apta for New Koyna	D/C	MSEB	6	Apr-02
2	Malharpet-Wankuswadi	D/C	MSEB	36	Apr-02
3	LILO of Pophali-Khandalgaon at Dasturi	D/C	MSEB	28	Apr-02
4	Dondaicha-Shahada	S/C on D/C	MSEB	27	Apr-02
5	Tap line to Pargaon	D/C	MSEB	2	Apr-02
6	Tap line to Pirangut	D/C	MSEB	2	Apr-02
7	Kohlapur-Phonda	M/C & D/C	MSEB	16	Apr-02
8	LILO Kohlapur-Ponda for Kohlapur	D/C	MSEB	9	May-02
9	LILO PS to M/s WCL at Ghugus	D/C	MSEB	15	May-02
10	Tap line for Karkambh	D/C	MSEB	1	May-02
11	Kolhapur-Savanthvadi	S/C on D/C	MSEB	122	Apr-03
12	Kolhapur-Ichalkaranji	D/C	MSEB	26	Apr-03
13	Khaperkheda-Kaulewada	D/C	MSEB	236	Apr-03
14	Aurangabad-II-Chittagaon	D/C	MSEB	42	Apr-03
15	LILO of Padghe-Colorchem D/C at Temghar S/S	D/C	MSEB	2.0	Apr-03
16	Tap on Ambarnath-II ckt	S/C	MSEB	1.0	Apr-03
17	Panvel (ONGC)-Panvel TSS	S/C	MSEB	2.0	Apr-03
18	Stringing of Padghe-Boisar (2nd ckt)	S/C	MSEB	41	May-03
19	LILO of Kalwa-Trombay at TFIL	D/C	MSEB	2	Jul-03
20	Aurangabad-Jalna	D/C	MSEB	170	Jan-04
21	M/C line for Solapur-Lamboti 400kV Sub Station	M/C	MSEB	51	Feb-04
22	LILO of Ashti-Gadchiroli at Mul	D/C	MSEB	66	Mar-04
23	LILO of Apta-Kalwa Owens Corning at Taloja	D/C	MSEB	1	Apr-04
24	LILO of Apta-Mahad at Nagothane	D/C	MSEB	31	Apr-04
25	Pali- Harangul	D/C	MSEB	120	Jun-04
26	Power supply to M/S Sahara India Ltd.	D/C	MSEB	39	Sep-04
27	LILO of 2nd ckt of 220 kV Khaperkheda-Bhandardhara D/C for Kanhan	D/C	MSEB	10	Jan-05
28	Jejuri-Chinchwad and Jejuri-Baramati LILO to	D/C	MSEB	16	Jan-05
29	LILO of Apta-Pedambe for Tambati	D/C	MSEB	3	Mar-05
30	LILO of Pedambe - Kharepatan at Nivaliphata	D/C	MSEB	33	Apr-05
31	LILO of Pedambe-Kharepatan at Oni	D/C	MSEB	2	Apr-05
32	Wardha I - Wardha-II	D/C	MSEB	3	Apr-05
33	LILO of Boisar-Padghe at Boisar (PGCIL 400/220 kV)	D/C	MSEB	8	Feb-06
34	LILO of Parli-Beed at Parli TPS	D/C	MSEB	20	Mar-06
35	LILO of Nanded-Girawali at Parli TPS	D/C	MSEB	16	Mar-06
36	Jamde-Dodaicha	D/C	MSEB	34	Mar-06
37	Padegaon-Savangi	S/C	MSEB	15	Apr-06
38	220 kV power supply to Sanvijay	S/C	MSEB	1	Apr-06
39	LILO of Akola-Chikhali 220kV ckt-I at Paras TPS	D/C	MSEB	12	Jun-06
40	LILO of 1ckt of Khaperkheda-Bhugaon at Purti	D/C	MSEB	43	Sep-06
41	Conversion of existing Tee line to LILO at Pirangut (2nd ckt)	S/C	MSEB	2.6	Oct-06
42	LILO of Chinchwad-Theur at Phursungi	D/C	MSEB	11	Nov-06
43	Vita-Ghatnamdare S/C on D/C	S/C	MSEB	40	Nov-06
44	Jamde-Valve	S/C on D/C	MSEB	14	Nov-06
45	Hinganghat TSS Line	D/C	MSEB	9	Feb-07
46	LILO of Akola-Chikhali 220kV ckt-II at Paras TPP Extn.	D/C	MSEB	12	Mar-07
47	Ghatghar-Washala	D/C	MSEB	23	Mar-07
48	Ghatghar-Jindal	D/C	MSEB	23	Mar-07
49	Interconnection between 400 kV Jejuri-220 kV Phursing	D/C	MSEB	28	Mar-07
50	LILO of 2nd ckt Khaparkheda-Bhugoan at Purti	D/C	MSEB	43	Mar-07
51	LILO of Bableshtar-Aurangabad at Bhenda	D/C	MSEB	37	Mar-07
52	LILO of Nasik - Kalwa D/C at Ghatghar	D/C	MSEB	102	Mar-07
53	LILO of Jejuri-Pandharpur at Temburni	D/C	MSEB	6	Mar-07
54	LILO of Padghe-Colorchem at Temghar	D/C	MSEB	1.4	Mar-07
55	Interconnection between 400 kV Akola-220 kV Akola	S/C	MSEB	1	Mar-07
Total 220 kV MSEB				1663	
Total 220 kV WR				4840	
1	2nd ckt. Strg of Gooty-Bhogasamudram	D/C	APTRANSCO	45	May-02
2	2 nd ckt strg.of Kodur -Renigunta	D/C	APTRANSCO	52	May-02
3	Bhogasamudram-Tadipatri	S/C on D/C	APTRANSCO	19	Jun-02
4	Renigunta- Chitoor (2nd ckt strng)	S/C	APTRANSCO	86	Jun-02
5	Vemagiri Sw.stn -Bommur S/S	D/C	APTRANSCO	8	Jul-02
6	LILO of Bommur-Vijeswaram to Vemagiri sw. stn.	D/C	APTRANSCO	5	Jul-02
7	Peddapuram Sw.Stn. - Vemagiri sw. stn.	D/C	APTRANSCO	82	Aug-02
8	LILO of Lower Sileru-Bommur to Rampachodavaram	D/C	APTRANSCO	15	Aug-02

SL NO	NAME OF THE LINE	TYPE	AGENCY	LENGTH (CKM)	MONTH OF COMPLETION
1	2	3	4	5	6
9	Ramagundam-Jagityal S/C on D/C	S/C on D/C	APTRANSCO	66	Sep-02
10	Mamidipally-Yeddumailaram	S/C on D/C	APTRANSCO	63	Oct-02
11	LILO of Mamidipally-Gachibowli to Shivaramapally	D/C	APTRANSCO	5	Nov-02
12	KTS-Manuguru (2nd ckt strg)	D/C	APTRANSCO	50	Dec-02
13	Vizag 400 kV S/S-Vizag Dairy Farm 220 kV S/S D/C	D/C	APTRANSCO	104	Mar-03
14	Namoor-Wanaparthi	S/C on D/C	APTRANSCO	93	Sep-03
15	LILO of Chittoor-Renigunta line at Chittoor 400kV S/S	D/C	APTRANSCO	10	May-04
16	khammam-Warangal	D/C	APTRANSCO	228	Jul-04
17	Mahaboobnagar-Bhootpur	D/C	APTRANSCO	32	Jul-04
18	Somayajulapalli-Nandyal (2nd Ckt)	S/C	APTRANSCO	35	Apr-05
19	LILO of Nellore-Sullurpet of Nellore	D/C	APTRANSCO	24	Dec-05
20	Anantapur-Kalyandurg	S/C	APTRANSCO	62	Aug-06
Total 220 kV APTRANSCO				1084	
1	Shimoga-Varahi in the corridor of the existing 110 kV S/C KPTCL	S/C	KPTCL	185	Nov-02
2	LILO of Davangere-Hiriyur at Guttur	D/C	KPTCL	53	Nov-02
3	LILO of Shimoga-Davangere line to Honnali	D/C	KPTCL	1	Nov-02
4	LILO of Hiriyur-G.B.Nur to Madhugiri	D/C	KPTCL	2	Nov-02
5	LILO of Davanagere-Hiriyur line to Chitradurga	D/C	KPTCL	8.5	Jan-03
6	Ambewadi -Narendra	D/C	KPTCL	112	Nov-03
7	LILO of Davangere- Hirriyur at Chitradurga	D/C	KPTCL	10	Nov-03
8	Kadra-Karwar	D/C	KPTCL	55	Feb-04
9	Raichur TPS -Shahapur -Gulbarga	D/C	KPTCL	320	May-04
10	LILO of SMG - Banglore at Hassan	D/C	KPTCL	34	Jun-04
11	LILO of Bagewadi- Bagalkot at Almati Dam	D/C	KPTCL	6	Jun-04
12	LILO at Bagalkot	D/C	KPTCL	1	Mar-05
13	LILO from Lingasugur-Shahabad 220 kV at Shahapur	D/C	KPTCL	4	Mar-05
14	LILO of Shahapur-Gulbarga 220 kV at Shahabad	D/C	KPTCL	4	Mar-05
15	LILO of RTPS-Gulbarga at Shahapur	D/C	KPTCL	2	Mar-05
16	Narendra-Haveri	D/C	KPTCL	95	Jun-05
17	Shahapur - Gulbarga	D/C	KPTCL	8	Sep-05
18	LILO at Kadur	D/C	KPTCL	0.8	Sep-05
19	Madhuvanahally-T.K.Hally	D/C	KPTCL	34	Mar-06
20	Kudachi-Mahalingpur	D/C	KPTCL	70	Apr-06
21	LILO of Shimoga- Hootagalli D/C line at Basthipura (400kV Mysore S/S)	D/C	KPTCL	30	Jun-06
22	LILO of Shimoga - Neelamangala at Nittur	D/C	KPTCL	1	Oct-06
23	LILO from Gowribidanur line at Devanahalli Intern. Airport	D/C	KPTCL	5	Dec-06
24	LILO of RTPS-Gulbarga at Shahapur	D/C	KPTCL	3	Feb-07
Total 220 kV KPTCL				1044	
1	LILO of Kasargode-Kannur at Taliparamba	D/C	KSEB	12	Apr-05
2	LILO of Kayamkulam-Edaman (ckt-I) to Kundra	D/C	KSEB	47	Jul-05
3	Pallipuram-Pothencode	M/C	KSEB	16	Jul-05
4	Koonathara-Shornur (2nd circuit)	S/C	KSEB	4.26	Mar-06
Total 220 kV KSEB				79	
1	LILO of ETPS- Korattur at Manali	D/C	TNEB	4	Jun-02
2	LILO of Singarapet-Hossur line to 400 kV Hossur S/S	D/C	TNEB	3	Jul-02
3	LILO of Neyveli- Deviakurichi at Neyveli	D/C	TNEB	9	Sep-02
4	Theni- Sembatty	S/C	TNEB	66	Sep-02
5	Hosur 230 kV S/S (location 101)- Hosur 400 kV S/S	S/C	TNEB	15	Mar-03
6	Mettur-Hosur D/C	D/C	TNEB	247	Jun-03
7	Vinnamangalam-Hosur 400 kV	S/C	TNEB	100	Feb-04
8	NCTPS-Tondiarpet S/S (2nd ckt)	S/C	TNEB	9	Feb-04
9	Vinnamangalam-Common Point	S/C	TNEB	84	Feb-04
10	Thiruvannamalai-Villupuram	S/C	TNEB	70	Mar-04
11	NCTPS - Mosur(2nd ckt stringing)	S/C	TNEB	83	Aug-04
12	LILO of Kayathar-SR Pudur line at 230kv Sankaneri S/S	D/C	TNEB	22	Oct-04
13	LILO of Thudiyalur-Udumalpet at Malumichampatty	D/C	TNEB	1	Dec-04
14	LILO of North Chennai TPS-Korattur at Kilpauk	D/C	TNEB	18	Apr-05
15	Pykara-Arasur	D/C	TNEB	116	Jun-05
16	Salem 400 kV S/S - Ingur 230 kV S/S	S/C	TNEB	84	Aug-05
17	LILO of Kayathar-Edaman line at Veeranam S/S	D/C	TNEB	1.5	Oct-05
18	LILO of Mettur-Hosur at Karimangalam	D/C	TNEB	49	Oct-05
19	LILO of NCTPS-Thiruvalem at Alamathy 400 kV S/S	D/C	TNEB	3	Oct-05
20	LILO of Kayathar-Edaman line at Kodikkurichi	D/C	TNEB	10	Nov-05
21	LILO of Pugalur-Unjanai 230 kV at Pudanchandai	D/C	TNEB	36	May-06
22	LILO of TTPS-Paramakudi 230 kV at Tuticorin SIPCOT	D/C	TNEB	0.75	Jul-06
23	LILO of Tuticorin TPS-S.R Pudur at Kundankulam APP	D/C	TNEB	20	Sep-06
24	Kayathar-Sankaneri	D/C	TNEB	178	Jan-07
25	LILO of Kayathar-Sankaneri at Udayathur	D/C	TNEB	12	Mar-07
Total 220 kV TNEB				1241	
Total 220 kV SR				3449	

SL NO	NAME OF THE LINE	TYPE	AGENCY	LENGTH (CKM)	MONTH OF COMPLETION
1	2	3	4	5	6
1	LILO of one circuit of 220 kV Rengali-Tarkera at Barkote	D/C	GRIDCO	4	Apr-02
2	Indravati-Theruvai (2nd D/C)	D/C	GRIDCO	182	Mar-05
3	Dubri - Dubri (Old)	D/C	GRIDCO	22	Sep-05
	Total 220 kV GRIDCO			208	
1	LILO of STPS-Howrah(2nd ckt.) at Arambagh	D/C	WBSEB	1	Sep-03
2	Jeerat-Rishra	D/C	WBSEB	140	Nov-03
3	LILO of STPS-Howrah D/C at Domjur	2xD/C	WBSEB	10	Nov-03
4	Arambagh-Rishra	S/C	WBSEB	71	Feb-04
5	Kasba-Laxmikantapur	D/C	WBSEB	107	Feb-04
6	Satgachia-Krishnanagar	D/C	WBSEB	94	Aug-06
	Total 220 kV WBSEB			423	
	Total 220 kV ER			631	
1	Karbi Langpi-Sarusajai D/C	D/C	ASEB	216	Mar-07
	Total 220 kV ASEB			216	
1	Kathalguri-Deomali	S/C	ARUNACHAL PRADESH	19	Feb-04
	Total 220 kV ARUNACHAL PRADESH			19	
	Total 220 kV NER			235	
	Total 220 kV SS			14337	
	Total 220 kV			15121	
V. 132 KV					
1	Lakwa-Dibrugarh	S/C	ASEB	67	Nov-05
2	LILO of Umian stage IV -Sarusajai at Umtru HEP	D/C	MeSEB	3	Jul-05
	Total 132 kV NER			70	

Annexure - II

DETAILS OF THE TRANSMISSION CAPACITY ADDED DURING X PLAN (2002-07)

Sl. No.	Name of the Sub-station	Voltage Ratio (kV/kV)	Execut. Agency	Capacity MVA/ MW	Month of completion
1	2	3	4	5	6
I. HVDC Terminals					
1	Talcher (2x500 MW) (Pole-I)	HVDC	POWERGRID	1000	Sep-02
2	Kolar (2x500 MW) (Pole-I)	HVDC	POWERGRID	1000	Sep-02
3	Sasaram (B/B) (1x500 MW)	HVDC B/B	POWERGRID	500	Sep-02
4	Talcher (2x500 MW) (Pole-II)	HVDC	POWERGRID	1000	Apr-03
5	Kolar (2x500 MW) (Pole-II)	HVDC	POWERGRID	1000	Apr-03
6	Gazuwaka B/B (Extn.) (1x500 MW)	HVDC B/B	POWERGRID	500	Mar-05
Total HVDC				5000	
II. 400 kV					
1	Ballabgarh (1x315)	400/220	POWERGRID	315	Aug-02
2	Allahabad (2x315) 2nd ICT	400/220	POWERGRID	315	Aug-02
3	Jeypore Extn. (1x315)	400/220	POWERGRID	315	Sep-02
4	Siliguri (1X315)	400/220	POWERGRID	315	Sep-02
5	Kolar (4x167)	400/220	POWERGRID	500	Sep-02
6	Hossur (2x315)	400/220	POWERGRID	630	Sep-02
7	Bhiwadi (2x315)	400/220	POWERGRID	630	Oct-02
8	Mapusa (2x315)	400/220	POWERGRID	630	Dec-02
9	Meerut(3X315) 3rd ICT	400/220	POWERGRID	315	Apr-03
10	Purnea (1x315)	400/220	POWERGRID	315	Oct-03
11	Hirriyur(1x315)	400/220	POWERGRID	315	Mar-04
12	Biharsarif Extn.(1x315)	400/220	POWERGRID	315	Mar-04
13	Sasaram - II	400/220	POWERGRID	315	Aug-04
14	Sasaram - I	400/220	POWERGRID	315	Nov-04
15	Khandwa-I	400/220	POWERGRID	315	Jan-05
16	Thiruvananthapuram (1st)	400/220	POWERGRID	315	Jul-05
17	Thiruvananthapuram (2nd)	400/220	POWERGRID	315	Jul-05
18	Baripada (New)	400/220	POWERGRID	315	Jul-05
19	Meerut (3rd)	400/220	POWERGRID	315	Aug-05
20	Vapi	400/220	POWERGRID	630	Aug-05
21	Boisor (1st)	400/220	POWERGRID	315	Sep-05
22	Boisor (2nd)	400/220	POWERGRID	315	Sep-05
23	Patiala (1st)	400/220	POWERGRID	315	Oct-05
24	Abdullapur (3rd)	400/220	POWERGRID	315	Oct-05
25	Patiala (2nd)	400/220	POWERGRID	315	Nov-05
26	Kaithal (New) (1st)	400/220	POWERGRID	315	Nov-05
27	Kaithal (2nd)	400/220	POWERGRID	315	Nov-05
28	Narendra (1st)	400/220	POWERGRID	315	Nov-05
29	Indravati (2nd - phase-I)	400/220	POWERGRID	105	Mar-06
30	Indravati (2nd - phase-2 & 3)	400/220	POWERGRID	210	Mar-06
31	Amritsar	400/220	POWERGRID	315	May-06
32	Mysore (1st)	400/220	POWERGRID	315	May-06
33	Mysore (2nd)	400/220	POWERGRID	315	May-06
34	Muzaffarpur (1st)	400/220	POWERGRID	315	Aug-06
35	Gorakhpur	400/220	POWERGRID	315	Aug-06
36	Lucknow	400/220	POWERGRID	315	Aug-06
37	Purnea Extn.	400/220	POWERGRID	315	Sep-06
38	Gorakhpur Extn.	400/220	POWERGRID	315	Sep-06
39	Siliguri Extn.	400/220	POWERGRID	315	Sep-06
40	Bahadurgarh	400/220	POWERGRID	315	Oct-06
41	Mainpuri (new) 2nd ICT	400/220	POWERGRID	315	Oct-06
42	Narendra (2nd)	400/220	POWERGRID	315	Oct-06
43	Satna	400/220	POWERGRID	315	Nov-06
44	Muzaffarnagar (Extension)	400/220	POWERGRID	315	Jan-07
45	Subashgram (New)	400/220	POWERGRID	630	Mar-07
46	Patna	400/220	POWERGRID	315	Mar-07
47	Balia Switching Station	400	POWERGRID	0	Mar-07
Total 400 kV CS				15935	
1	Bamnauli (1x315) (2nd)	400/220	DELHI	315	May-03
2	Bamnauli (3rd)	400/220	DELHI	315	Sep-05
3	Bawana (4th)	400/220	DELHI	315	Jan-06
4	Bamnauli (4th)	400/220	DELHI	315	Mar-07
Total 400 kV DELHI				1260	
1	Ratangarh (3x315) (2nd ICT)	400/220	RVPN	315	Sep-02
2	Ratangarh (3rd ICT)	400/220	RVPN	315	May-03
3	Merta	400/220	RVPN	315	Aug-04
4	Mandore (Jodhpur) (1st)	400/220	RVPN	315	Mar-05
5	Mandore (Jodhpur) (2nd)	400/220	RVPN	315	Apr-05
Total 400 kV RVPN				1575	
1	Kashipur (1st)	400/220	UPCL	315	Dec-06
2	Kashipur (2nd)	400/220	UPCL	315	Dec-06
Total 400 kV UPCL				630	

Sl. No.	Name of the Sub-station	Voltage Ratio (kV/kV)	Execut. Agency	Capacity MVA/ MW	Month of completion
1	2	3	4	5	6
1	Gorakhpur (New)	400/220	UPPCL	315	Mar-06
2	Muzaffarnagar (1st)	400/220	UPPCL	315	Mar-06
3	Muzaffarnagar (2nd)	400/220	UPPCL	315	Mar-06
4	Greater Noida	400/220	UPPCL	315	Jun-06
5	Greater Noida (2nd)	400/220	UPPCL	315	Mar-07
	Total 400 kV UPPCL			1575	
	Total 400 kV NR			5040	
1	Ranchodpura (Vadavi)	400/220	GETCO	315	Mar-06
2	Kasor	400/220	GETCO	315	Jun-06
3	Rajkot(Hadala)	400/220	GETCO	315	Jun-06
4	Kansari (Aug)	400/220	GETCO	315	Dec-06
	Total 400 kV GETCO			1260	
1	Nagda	400/220	MPPTCL	315	Dec-04
2	Bina (Additional)	400/220	MPPTCL	315	Apr-05
3	Bhopal (Additional)	400/220	MPPTCL	315	Apr-05
	Total 400 kV MPPTCL			945	
1	Dhule (Aug)	400/220	MSEB	315	May-02
2	Kohlapur (Aug)	400/220	MSEB	315	May-02
3	New Koyna (Addl.)	400/220	MSEB	315	Apr-03
4	Kharghar (2x315)	400/220	MSEB	315	Apr-03
5	Solapur	400/220	MSEB	500	Sep-03
6	Nagothane(Addl)	400/220	MSEB	315	Dec-03
7	Jejuri	400/220	MSEB	315	Jan-05
8	Jejuri	400/220	MSEB	167	Apr-06
9	Akola	400/220	MSEB	315	Mar-07
	Total 400 kV MSEB			2872	
	Total 400 kV WR			5077	
1	Vemagiri (1st & 2nd)	400/220	APTRANSCO	630	Aug-05
2	Mahboobnagar	400/220	APTRANSCO	315	Oct-05
3	Nellore (1st)	400/220	APTRANSCO	315	Jan-06
4	Chittor	400/220	APTRANSCO	315	Mar-06
5	Nellore (2nd)	400/220	APTRANSCO	315	May-06
	Total 400 kV APTRANSCO			1890	
1	Talaguppa (1st ICT)	400/220	KPTCL	315	May-03
2	Talaguppa (2nd ICT)	400/220	KPTCL	315	Sep-03
3	Hoody(Addl) (3x167)	400/220	KPTCL	500	Mar-04
4	Neelamangala (Addl.) (3x167)	400/220	KPTCL	500	Aug-05
5	Guttur (Davengere) Addl.	400/220	KPTCL	315	Apr-06
	Total 400 kV KPTCL			1945	
1	Salem	400/110	TNEB	200	Nov-02
2	Sriperumbudur	400/110	TNEB	200	Mar-03
3	Sriperumpudur	400/230	TNEB	315	Aug-04
4	Alamathy	400/110	TNEB	200	Sep-06
	Total 400 kV TNEB			915	
	Total 400 kV SR			4750	
1	Meramundali (1st)	400/220	GRIDCO	315	Jun-05
2	Meramundali (2nd)	400/220	GRIDCO	315	Jun-05
	Total 400 kV ER			630	
	Total 400 kV SS			15497	
	Total 400 kV			31432	
II. 220 kV					
1	Purnea (Extn.) (1x100)	220/132	POWERGRID	100	Sep-02
2	Salakati (2nd ICT) (1x50)	220/132	POWERGRID	50	Aug-03
3	Arrah - I	220/132	POWERGRID	100	Aug-04
4	Arrah -II	220/132	POWERGRID	100	Aug-04
5	Baripada	220/132	POWERGRID	160	Jul-05
	Total 220 kV PG			510	
1	Durgapur (2nd ICT)	220/33	DVC	50	Feb-03
2	Kalyaneshwari	220/132	DVC	150	Dec-04
3	Ramgarh	220/132	DVC	150	Dec-04
4	Ramgarh	220/33	DVC	50	Jun-05
5	Ramgarh	220/33	DVC	50	Jun-05
6	Ramgarh	220/132	DVC	150	Jun-05
7	Barjora (1st)	220/33	DVC	50	Feb-06
8	Barjora (2nd)	220/33	DVC	50	Feb-06
9	Burnpur(2x50)	220/132	DVC	100	Jun-06
10	Barjora (2x50)	220/33	DVC	100	Nov-06
	Total 220 kV DVC			900	
	Total 220 kV CS			1410	
1	Naraina (1x100)	220/33	DELHI	100	Dec-02
2	Okhla (Aug)	220/33	DELHI	100	Feb-03
3	Khanjawala (2nd) (Aug)	220/66	DELHI	100	Jun-05
4	Papankala-I (3rd ICT)	220/132	DELHI	100	Aug-03
5	Sabzimandi	220/33	DELHI	100	Jan-04
6	Patparganj (repl)(.100-50 MVA)	220/33	DELHI	50	Jan-04
7	Sarita Vihar 2nd ICT.	220/66	DELHI	100	Apr-04

Sl. No.	Name of the Sub-station	Voltage Ratio (kV/kV)	Execut. Agency	Capacity MVA/ MW	Month of completion
1	2	3	4	5	6
8	Rohini (1x100) (3rd)	220/66	DELHI	100	Apr-04
9	South of Wazirabad	220/66/11	DELHI	100	Jan-05
10	Khanjawala (2nd) (Aug)	220/66	DELHI	100	Jun-05
11	Geeta Colony	220/132	DELHI	100	Sep-05
12	Geeta Colony	220/132	DELHI	100	Nov-05
13	Papankalan-I (4th)	220/33	DELHI	100	Mar-06
14	Papankala-II (1st)	220/66	DELHI	100	Apr-06
15	Rohini - I (4th)	220/66	DELHI	100	Jun-06
16	Naraina (3rd)	220/33/11	DELHI	100	Nov-06
17	Papankala-II (2nd)	220/66	DELHI	100	Mar-07
Total 220 kV DELHI				1650	
1	Baddi (1st)	220/66	HPSEB	80	Mar-05
2	Baddi (2nd)	220/66	HPSEB	80	Jul-05
Total 220 kV HPSEB				160	
1	Yamunanagar	220/66	HVPN	100	Sep-02
2	Sonepat	220/132	HVPN	100	Dec-02
3	Mohindergarh (2x100) 1st ICT	220/132	HVPN	100	Jan-03
4	Fatehabad (new) (2x100) (1st ICT)	220/132	HVPN	100	Feb-03
5	Yamunanagar (2nd ICT)	220/66	HVPN	100	Apr-03
6	Mohindergarh (2nd ICT)	220/132	HVPN	100	May-03
7	Badshahapur (Rep 1x45 by 1x100 MVA)	220/66	HVPN	55	May-03
8	Bhiwani (3rd ICT)	220/132	HVPN	100	Jul-03
9	Fatehabad(2nd ICT)	220/132	HVPN	100	Aug-03
10	Cheeka (1st ICT)	220/132	HVPN	100	Aug-03
11	Tepla (1st)	220/66	HVPN	100	Dec-03
12	Rohtak(2nd ICT)	220/132	HVPN	100	Jan-04
13	Panchkula (2nd ICT)	220/132	HVPN	100	Jan-04
14	Rania 1st ICT	220/132	HVPN	100	Feb-04
15	Pali(New) 2nd ICT	220/66	HVPN	60	Apr-04
16	Badsahpur(Aug.)(4th ICT)	220/66	HVPN	100	Jun-04
17	Pehowa(Aug.)(100-50)	220/132	HVPN	50	Jun-04
18	Saffidon-I	220/132	HVPN	100	Nov-04
19	Saffidon-II	220/132	HVPN	100	Nov-04
20	Sector-52 Gurgaon -I	220/66	HVPN	100	Nov-04
21	Sector-52 Gurgaon -II	220/66	HVPN	100	Nov-04
22	Jind-I	220/132	HVPN	100	Dec-04
23	Jind-II	220/132	HVPN	100	Dec-04
24	Sonepat (3rd)	220/132	HVPN	100	Dec-05
25	Cheeka (2nd)	220/132	HVPN	100	Dec-05
26	IMT Manesar	220/66	HVPN	100	Dec-05
27	Palwal	220/66	HVPN	100	Mar-06
28	Rohtak	220/132	HVPN	50	Mar-06
29	Tepla (2nd)	220/66	HVPN	100	May-06
30	Rohtak (Aug) (100-50)	220/132	HVPN	50	Jul-06
31	Nuna Majra (Bahadurgarh)	220/132	HVPN	100	Jul-06
32	Kaithal	220/132	HVPN	100	Jul-06
33	Fatehabad (3rd)	220/132	HVPN	100	Nov-06
34	Rewari (Aug.)	220/132	HVPN	50	Jan-07
Total 220 kV HVPN				3115	
1	Humbran (1x100) (Aug)	220/66	PSEB	100	Jun-02
2	Patti (Aug)	220/66	PSEB	100	Nov-02
3	Kartarpur (1x100) U/G	220/66	PSEB	100	Jan-03
4	Barnala (Aug)	220/66	PSEB	100	Jan-03
5	Mandi Govindgarh (Aug) (3rd ICT)	220/66	PSEB	100	Jan-03
6	Sunam (Aug) (2nd ICT)	220/66	PSEB	100	Apr-03
7	Ghubayan (Aug) (2nd ICT)	220/66	PSEB	50	Jul-03
8	Bahadurgarh(Aug)(2nd ICT)	220/66	PSEB	100	Aug-03
9	Muktsar (Aug) (3rd ICT)	220/132	PSEB	100	Oct-03
10	Landran(Mohali-II)-(New)	220/66	PSEB	100	Jul-04
11	Kohara U/G	220/66	PSEB	100	Nov-04
12	Rajla (new)	220/66	PSEB	100	Jan-05
13	Kotli-SuratMalli	220/66	PSEB	100	Mar-05
14	Tibber (Aug) (1st)	220/66	PSEB	100	May-06
15	Mansa (Aug) (2nd)	220/66	PSEB	100	Jan-07
Total 220 kV PSEB				1450	
1	Bhinmal (Aug)	220/132	RVPN	100	Jun-02
2	Nimbahera	220/132	RVPN	100	Dec-02
3	Bikaner (Aug)	220/132	RVPN	50	Jan-03
4	Dholpur (1x100)(Rep 1x50 by 1x100 MVA)	220/132	RVPN	50	May-03
5	Bhopalgarh (2x100) (1st ICT)	220/132	RVPN	100	May-03
6	Sawaimadhopur (1x100)	220/132	RVPN	100	May-03
7	Pali (1x50)	220/132	RVPN	100	May-03
8	Jodhpur(Aug)	220/132	RVPN	100	Aug-03
9	Dholpp Ext	220/132	RVPN	100	Jan-04
10	Banswara	220/132	RVPN	100	Apr-04

Sl. No.	Name of the Sub-station	Voltage Ratio (kV/kV)	Execut. Agency	Capacity MVA/ MW	Month of completion
1	2	3	4	5	6
11	Ajmer	220/66	RVPN	100	Mar-05
12	Bharatpur	220/66	RVPN	100	Mar-05
13	Sujargarh	220/132	RVPN	100	Apr-05
14	Jalore	220/132	RVPN	100	Apr-05
15	Amarsagar	220/132	RVPN	100	Apr-05
16	Phalodi	220/132	RVPN	100	Apr-05
17	Jhalawar (Aug)	220/132	RVPN	100	Nov-05
18	Makrana	220/132	RVPN	100	Dec-05
19	Dausa (Aug) (100-50 MVA)	220/132	RVPN	50	Jan-06
20	Sanganer (Augmentation)	220/132	RVPN	100	Jan-06
21	Mahavirnagar (50-25)	220/132	RVPN	25	Mar-06
22	VKIA (50-25)	220/132	RVPN	25	Mar-06
23	Barmer	220/132	RVPN	100	Mar-06
24	Merta City	220/132	RVPN	100	Aug-06
25	Bhiwadi	220/132	RVPN	100	Mar-07
26	Sujargarh	220/132	RVPN	100	Mar-07
27	Dhorimanna	220/132	RVPN	100	Mar-07
28	Khinwsar	220/132	RVPN	100	Mar-07
Total 220 kV RVPN				2500	
1	Roorkee-I (1x160)	220/132	UPCL	160	Dec-04
2	Roorkee-II (1x160)	220/132	UPCL	160	Dec-04
3	Hardwar (BHEL) (1st)	220/132	UPCL	100	Jul-06
4	Pantnagar (1st)	220/132	UPCL	160	Nov-06
5	Rishikesh (2x160)	220/132	UPCL	320	Apr-06
6	Kashipur (1st)	220/132	UPCL	160	Dec-06
7	Kashipur (2nd)	220/132	UPCL	160	Dec-06
8	Pantnagar (2nd)	220/132	UPCL	160	Dec-06
Total 220 kV UPCL				1380	
1	Sultanpur (Extn) (Rep 1x100 by 1x160)	220/132	UPPCL	60	Sep-02
2	Banda	220/132	UPPCL	60	Dec-02
3	RPH (Kanpur)(2x60)	220/33	UPPCL	120	Jan-03
4	Jahangirabad Extn (2nd ICT)	220/132	UPPCL	100	Apr-03
5	Gazipur Extn (2nd ICT)	220/132	UPPCL	100	Apr-03
6	Hardoi Road (2x100) 1st ICT	220/132	UPPCL	100	Apr-03
7	Banda (Aug 100-60 MVA)	220/132	UPPCL	40	Apr-03
8	Hardoi Road (1x100) 2nd ICT	220/132	UPPCL	100	Oct-03
9	Sahibabad Ext(Aug)(160-100 MVA)	220/132	UPPCL	60	Dec-03
10	Mainpuri Ext(Aug)(100-60 MVA)	220/132	UPPCL	40	Dec-03
11	Muradnagar(Aug)(160-100 MVA)	220/132	UPPCL	60	Dec-03
12	Saharanpur Ext.(repl)(160-100 MVA)	220/132	UPPCL	60	Jan-04
13	Chinhath Extn (Aug) (160-100 MVA)	220/132	UPPCL	60	Feb-04
14	Gorakhpur Extn (3rd trf)	220/132	UPPCL	100	Mar-04
15	Muzaffarnagar Ext. (160-100)	220/132	UPPCL	60	Jul-04
16	Saifai Ext.	220/132	UPPCL	100	Jul-04
17	Allahabad Cantt. (1st ICT)	220/132	UPPCL	100	Jan-05
18	Allahabad Cantt. (2nd ICT)	220/132	UPPCL	100	Jan-05
19	Deoria	220/132	UPPCL	100	Jan-05
20	Shatabdinagar (1st ICT)	220/132	UPPCL	100	Jan-05
21	Shatabdinagar (2nd ICT)	220/132	UPPCL	100	Jan-05
22	Agra (160-100)	220/132	UPPCL	60	Jun-05
23	Panki Extn. (Aug) (160-100)	220/132	UPPCL	60	Oct-05
24	Banda	220/132	UPPCL	100	Mar-06
25	Sahupuri (Aug) (160-100)	220/132	UPPCL	60	Mar-06
26	Naubasta (Aug) (160-100)	220/132	UPPCL	60	Mar-06
27	Hathras	220/132	UPPCL	100	Mar-06
28	Nehtaur Ext. (40-20)	220/132	UPPCL	20	Mar-06
29	Greater Noida	220/132	UPPCL	160	Jun-06
30	Hathras (P)	220/132	UPPCL	100	Aug-06
31	Jaunpur Extn. (160-100)	220/132	UPPCL	60	Aug-06
32	Orai (ICT 2)	220/132	UPPCL	100	Oct-06
33	Hardoi	220/132	UPPCL	100	Jan-07
34	Basti (2nd)	220/132	UPPCL	100	Jan-07
35	Agra Extn. (1x160-1x100)	220/132	UPPCL	60	Jan-07
36	Phoolpur Extn (1x160-1x100)	220/132	UPPCL	60	Jan-07
37	Atrauli	220/132	UPPCL	100	Mar-07
38	Chibramau (2x100)	220/132	UPPCL	200	Mar-07
39	Shamli Extn (160-100)	220/132	UPPCL	60	Mar-07
40	Mainpuri Extn (100-60)	220/132	UPPCL	40	Mar-07
41	Orai (ICT 1)	220/132	UPPCL	100	Mar-07
42	Moradabad Extn (160-100)	220/132	UPPCL	60	Mar-07
Total 220 kV UPPCL				3480	
Total 220 kV NR				13735	
1	Korba (E) PH (Aug) (1x100 rep by 1x160)	220/132	CSEB	60	Apr-02
2	Korba (E) PH (Aug) (Rep 1x100 by 1x160)	220/132	CSEB	60	Jul-02
3	Urla (Aug)	220/132	CSEB	40	Feb-03

Sl. No.	Name of the Sub-station	Voltage Ratio (kV/kV)	Execut. Agency	Capacity MVA/ MW	Month of completion
1	2	3	4	5	6
4	Pendra Road (1x160)	220/33	CSEB	100	May-03
5	Rajgarh(Aug) 160	220/132	CSEB	160	Aug-03
6	Urla	220/132	CSEB	40	Mar-04
7	Gurur	220/132	CSEB	40	May-04
8	Gurur	220/132	CSEB	160	Jun-04
9	Mopka	220/132	CSEB	160	Jun-05
10	Urla (Aug)	220/132	CSEB	160	Sep-05
11	Siltara	220/132	CSEB	160	Sep-06
12	Siltara (Aug)	220/132	CSEB	160	Mar-07
13	Bemetara	220/132	CSEB	160	Mar-07
14	Mahasamund	220/132	CSEB	160	Mar-07
15	Champa	220/132	CSEB	160	Mar-07
16	Gurur	220/132	CSEB	160	Mar-07
Total 220 kV CSEB				1940	
1	Kharadpada (2x100)	220/66	DNH	200	Dec-02
2	Magarwada	220/66	DNH	150	Mar-03
Total 220 kV DNH				350	
1	Kashod (Aug) (Rep50 by 100 MVA)	220/66	GETCO	50	May-02
2	sardargarh	220/66	GETCO	50	Jul-02
3	Mohba (Aug) (2x50) (1st ICT)	220/66	GETCO	50	Sep-02
4	Anjar (Aug) (Rep 1x50 by 1x100)	220/132	GETCO	50	Feb-03
5	Agiyol (Himmatnagar)	220/132	GETCO	50	Mar-03
6	Morbi(Repl. 1x150 by 1x200)	220/66	GETCO	50	Aug-03
7	Anjar	220/132	GETCO	50	Aug-03
8	Deodar	220/66	GETCO	50	Dec-03
9	Jangral	220/66	GETCO	100	Dec-03
10	Namikhakan	220/66	GETCO	100	Dec-03
11	Agiyol(Aug)	220/66	GETCO	50	Feb-04
12	Halvad	220/66	GETCO	100	Feb-04
13	Chitrod	220/66	GETCO	100	May-04
14	Limbdi(Aug)200MVA to 250MVA	220/132	GETCO	50	May-04
15	Bardoli(Mota)	220/66	GETCO	100	Jun-04
16	Dharangadhra	220/66	GETCO	100	Jul-04
17	Kansari(Zerda)	220/66	GETCO	100	May-04
18	Timbdi(Kodinar)	220/66	GETCO	50	Jul-04
19	Godhra	220/66	GETCO	50	Oct-04
20	Visvadar	220/66	GETCO	50	Dec-04
21	Dhasa	220/66	GETCO	50	Dec-04
22	Radhanpur	220/66	GETCO	50	Jan-05
23	Dhanki (2x50)	220/11	GETCO	100	Feb-05
24	Savarkundla (100-50)	220/66	GETCO	50	Feb-05
25	Ichhapore	220/66	GETCO	100	Feb-05
26	Jangral	220/66	GETCO	100	Mar-05
27	Radhanpur	220/66	GETCO	50	Mar-05
28	Vijapur (Aug) (150-100)	220/66	GETCO	50	Mar-05
29	Mitha (Jotana)	220/66	GETCO	100	Apr-05
30	Haldarwa (Aug.) (150-100)	220/66	GETCO	50	Apr-05
31	Halvad	220/66	GETCO	100	May-05
32	Anjar (100-50)	220/66	GETCO	50	Jun-05
33	Mathasur (2x50)	220/66	GETCO	100	Mar-06
34	Adalsar	220/11	GETCO	50	Oct-06
Total 220 kV GETCO				2350	
1	Tivim (Upgradation to 220 KV)	220/110	GOA	100	Nov-02
2	Tivim (2nd)	220/110	GOA	100	May-06
	Xeldem	220/33	GOA	50	Dec-06
Total 220 kV GOA				250	
1	Bhopal (Addl)	220/132	MPPTCL	160	Aug-02
2	Nimrani	220/132	MPPTCL	160	Mar-04
3	Pandhurna (1x160)	220/132	MPPTCL	160	Mar-04
4	Narsinghpur(Addl)(1x160)Aug	220/132	MPPTCL	160	Apr-04
5	Katni(Aug.)	220/132	MPPTCL	160	Jul-04
6	Shujalpur	220/132	MPPTCL	160	Aug-04
7	Indore II	220/132	MPPTCL	160	Aug-04
8	Badnagar	220/132	MPPTCL	160	Nov-04
9	Neemuch	220/132	MPPTCL	160	Dec-04
10	Mehgaon	220/132	MPPTCL	160	Jan-05
11	Bairagarh	220/132	MPPTCL	160	Apr-05
12	Shivpuri (New)	220/132	MPPTCL	160	Sep-05
13	Shivpuri	220/132	MPPTCL	40	Nov-05
14	Rajgarh	220/132	MPPTCL	160	Dec-05
15	Dewas (Additional)	220/132	MPPTCL	160	Mar-06
16	Birsinghpur	220/132	MPPTCL	160	Aug-06
17	Tikkamgarh (New)	220/132	MPPTCL	160	Nov-06
18	Guna	220/132	MPPTCL	160	Dec-06
19	Rajgarh	220/132	MPPTCL	160	Dec-06

Sl. No.	Name of the Sub-station	Voltage Ratio (kV/kV)	Execut. Agency	Capacity MVA/ MW	Month of completion
1	2	3	4	5	6
20	Pithampur(Addl.)	220/132	MPPTCL	160	Mar-07
21	Seoni(New)	220/132	MPPTCL	160	Mar-07
	Total 220 kV MPPTCL			3240	
1	Wanakuswadi (2x50)	220/33	MSEB	100	Apr-02
2	Dasturi	220/33	MSEB	25	Apr-02
3	Chikhali	220/132	MSEB	100	Apr-02
4	Pargaon	220/33	MSEB	25	Apr-02
5	Theur (Aug)	220/22	MSEB	50	Apr-02
6	Murad (Aug)	220/33	MSEB	25	Apr-02
7	Ambernath - III	220/33	MSEB	50	Apr-02
8	Vita (Aug)	220/33	MSEB	25	May-02
9	Pargaon (Aug)	220/22	MSEB	50	Jul-02
10	Satara MIDC	220/132	MSEB	100	Aug-02
11	Wanauswadi	220/33	MSEB	50	Sep-02
12	Pirangat	220/22	MSEB	50	Sep-02
13	Baramati (Aug)	220/33	MSEB	25	Sep-02
14	Shahada	220/110	MSEB	100	Dec-02
15	Kaulewada (1X25)	220/33	MSEB	25	Apr-03
16	Sawanthwadi (1X50)	220/33	MSEB	50	Apr-03
17	Chitegaon (2x50)	220/132	MSEB	50	Apr-03
18	Solapur-II (Bale)	220/132	MSEB	100	Apr-03
19	Temghar	220/33	MSEB	50	Apr-03
20	Satara (MIDC) (2nd ICT)	220/132	MSEB	100	May-03
21	Dasturi	220/132	MSEB	25	May-03
22	Kaulewada	220/132	MSEB	200	Jul-03
23	Kaulewada	220/132	MSEB	100	Jul-03
24	Karkambh	220/33	MSEB	25	Jul-03
25	Boisar	220/132	MSEB	150	Jul-03
26	Jalna	220/33	MSEB	25	Aug-03
27	Alephata	220/33	MSEB	25	Aug-03
28	Alephata (Updation from 25 to 50 MVA)	220/33	MSEB	25	Oct-03
29	Harangal	220/132	MSEB	200	Dec-03
30	New Koyna (Aug)	220/33	MSEB	25	Jan-04
31	Jalna New	220/132	MSEB	200	Jan-04
32	Telco (Aug)	220/22	MSEB	50	Mar-04
33	Phursungi (1x200)	220/132	MSEB	200	Apr-04
34	Taloja (1x100)	220/110	MSEB	100	Apr-04
35	Taloja (1x100)	220/110	MSEB	100	Apr-04
36	Harangul (2X200) II ICT	220/132	MSEB	200	Apr-04
37	Telco (Aug)	220/22	MSEB	50	Apr-04
38	Ghadchiroli (1x25)	220/33	MSEB	25	Apr-04
39	Taloja (Aug.)	220/22	MSEB	50	Aug-04
40	Chitegaon	220/33	MSEB	50	Oct-04
41	Chitegaon	220/33	MSEB	50	Nov-04
42	Mulund	220/22	MSEB	50	Dec-04
43	Nanded (Aug) (200 -120)	220/33	MSEB	120	Jan-05
44	Khargher	220/33	MSEB	50	Jan-05
45	Kalmeshwar	220/33	MSEB	25	Jan-05
46	Harangul (1X100)	220/33	MSEB	100	Jan-05
47	Gadchiroli	220/33	MSEB	25	Jan-05
48	Chitegaon	220/33	MSEB	50	Jan-05
49	Nagothane	220/33	MSEB	25	Jan-05
50	Phursungi	220/22	MSEB	50	Jan-05
51	Kaulewada	220/132	MSEB	100	Jan-05
52	Karkambh	220/33	MSEB	25	Jan-05
53	Chitegaon	220/132	MSEB	50	Mar-05
54	Tambati	220/100	MSEB	100	Mar-05
55	Ichalkaranji (Aug.)	220/33	MSEB	25	Apr-05
56	New Koyna	220/33	MSEB	25	Apr-05
57	Nivalipatha	220/33	MSEB	25	Apr-05
58	Phursungi	220/22	MSEB	50	Apr-05
59	Taloja	220/22	MSEB	50	Apr-05
60	Badnera	220/33	MSEB	25	Jul-05
61	Temghar	220/22	MSEB	50	Aug-05
62	Jalna	220/33	MSEB	25	Sep-05
63	New Koyna (2nd)	220/132	MSEB	25	Oct-05
64	Kanhan	220/132	MSEB	100	Dec-05
65	Hinganghat	220/132	MSEB	80	Mar-06
66	Ichalkaranji (Tilwani)	220/33	MSEB	50	Mar-06
67	Pandharpur	220/132	MSEB	100	Mar-06
68	Oni	220/33	MSEB	25	Mar-06
69	Tambati	220/100	MSEB	100	Mar-06
70	Jamde	220/100	MSEB	100	Mar-06
71	Jalna	220/33	MSEB	25	Apr-06
72	Jamde	220/33	MSEB	100	Apr-06

Sl. No.	Name of the Sub-station	Voltage Ratio (kV/kV)	Execut. Agency	Capacity MVA/ MW	Month of completion
1	2	3	4	5	6
73	Dhule	220/33	MSEB	25	Apr-06
74	Ghatnandre	220/33	MSEB	100	Jul-06
75	Chandrapur (MIDC)	220/33	MSEB	50	Aug-06
76	Valve	220/33	MSEB	100	Nov-06
77	Tambati	220/100	MSEB	100	Jan-07
78	Ambernath (3rd)	220/22	MSEB	50	Jan-07
79	Gatnandara (Addl.)	220/33	MSEB	100	Feb-07
80	Jamde (Addl.) 3rd	220/33	MSEB	100	Feb-07
81	Purti	220/33	MSEB	100	Mar-07
82	Savangi	220/33	MSEB	25	Mar-07
83	Bhenda	220/132	MSEB	100	Mar-07
84	Bhenda	220/33	MSEB	50	Mar-07
85	Umred	220/33	MSEB	25	Mar-07
86	Gatnandara (Addl.)	220/33	MSEB	100	Mar-07
87	Valve (Addl)	220/33	MSEB	100	Mar-07
Total 220 kV MSEB				5900	
Total 220 kV WR				14030	
1	Yeddumailaram (Aug)	220/132	APTRANSCO	100	Apr-02
2	Kakinada (2nd ICT)	220/132	APTRANSCO	100	Apr-02
3	Bhootpur (Aug)	220/132	APTRANSCO	100	Apr-02
4	Narketpally (Aug)	220/132	APTRANSCO	100	Apr-02
5	Pendurathi (Addl ICT)	220/132	APTRANSCO	100	Aug-02
6	Tadipatri	220/132	APTRANSCO	100	Oct-02
7	Shivaramapally	220/132	APTRANSCO	100	Oct-02
8	Nandyal	220/132	APTRANSCO	100	Nov-02
9	Vizag Dairy Farm (2x100) (1st ICT)	220/132	APTRANSCO	100	Nov-02
10	Jagityal	220/132	APTRANSCO	100	Dec-02
11	Miryalaguda (3rd ICT)	220/132	APTRANSCO	100	Mar-03
12	Renigunta (3rd ICT)	220/132	APTRANSCO	100	May-03
13	Rampachodavaram	220/33	APTRANSCO	31.5	Jun-03
14	Ananthapur(3rd Tr)	220/132	APTRANSCO	100	Aug-03
15	Ongole(3rd Tr)	220/132	APTRANSCO	100	Aug-03
16	Khammam(2nd ICT)	220/132	APTRANSCO	100	Aug-03
17	Wanaparthi	220/33	APTRANSCO	100	Dec-03
18	Durshed(2nd Tr)	220/132	APTRANSCO	100	Dec-03
19	Budidampadu 2nd trf	220/132	APTRANSCO	100	Jan-04
20	Parawada	220/132	APTRANSCO	100	Apr-04
21	Gudivada (1st & 2nd)	220/132	APTRANSCO	200	Apr-05
22	Sivarampally (3rd)	220/132	APTRANSCO	100	Dec-06
23	Chandrayangutta (4th)	220/132	APTRANSCO	100	Dec-06
24	Gachibowli (4th)	220/132	APTRANSCO	100	Dec-06
25	Bhimavaram	220/132	APTRANSCO	200	Feb-07
26	Bhimavaram (2nd)	220/132	APTRANSCO	100	Mar-07
Total 220 kV APTRANSCO				2732	
1	C.R Nagar(2x100)	220/66	KPTCL	200	May-02
2	Chikkodi (2nd ICT)	220/110	KPTCL	100	Aug-02
3	Chintamani (1st ICT)	220/66	KPTCL	100	Nov-02
4	Chintamani (2nd ICT)	220/66	KPTCL	100	Nov-02
5	Madhugiri	220/66	KPTCL	100	Aug-03
6	Madhugiri 2nd ICT	220/66	KPTCL	100	Nov-03
7	Honnali	220/66	KPTCL	100	Nov-03
8	Chitradurga	220/66	KPTCL	200	Nov-03
9	Karwar	220/110	KPTCL	100	Mar-04
10	Gulbarga	220/110	KPTCL	200	May-04
11	Harohalli	220/66	KPTCL	50	Jun-04
12	Tataguni	220/66	KPTCL	50	Jun-04
13	Chikkodi(Add.trans)	220/110	KPTCL	100	Jul-04
14	Bagalkot	220/110	KPTCL	100	Jan-05
15	Kadur (1st & 2nd) (2x100)	220/110	KPTCL	200	Sep-05
16	Kudachi (1st)	220/110	KPTCL	100	Feb-06
17	Kudachi (2nd)	220/110	KPTCL	100	Feb-06
18	Madhuvanahalli (Kollegal)	220/66	KPTCL	100	Apr-06
19	NRS (Aug)(150-100)	220/66	KPTCL	50	Sep-06
20	Nittur	220/110	KPTCL	100	Oct-06
21	Nittur (2nd)	220/110	KPTCL	100	Nov-06
22	Itagi (2nd)	220/66	KPTCL	100	Nov-06
23	Devanahalli International Airport	220/66	KPTCL	100	Dec-06
24	Subrahmanyapura(Aug)(150-100)	220/66	KPTCL	50	Feb-07
25	Kemar(2nd)	220/110	KPTCL	100	Mar-07
26	Haveri(Addl.)	220/110	KPTCL	100	Mar-07
Total 220 kV KPTCL				2800	
1	Shornur 1st trans.	220/110	KSEB	100	Nov-03
2	Taliparamba (1st)	220/110	KSEB	100	Jun-05
3	Taliparamba (2nd)	220/110	KSEB	100	Jun-05
4	Kundara	220/110	KSEB	100	Mar-06
Total 220 kV KSEB				400	

Sl. No.	Name of the Sub-station	Voltage Ratio (kV/kV)	Execut. Agency	Capacity MVA/ MW	Month of completion
1	2	3	4	5	6
1	Samayapuram (1x50)	230/110	TNEB	50	Nov-02
2	Manali	230/110	TNEB	100	Aug-03
3	Thanjavur	230/110	TNEB	100	Nov-03
4	Pudukkottai(Aug.)	230/110	TNEB	50	Oct-04
5	Sankaneri	230/33	TNEB	50	Oct-04
6	Malumichampatty	230/110	TNEB	100	Jun-05
7	Karimangalam (1st)	230/110	TNEB	100	Oct-05
8	Veeranam (2x50)	230/33	TNEB	100	Oct-05
9	Kodikkurichi	230/110	TNEB	100	Nov-05
10	Kilpauk (2x50)	230/110	TNEB	100	Feb-06
11	Udumalpet	230/110	TNEB	100	Mar-06
12	S R Pudur	230/110	TNEB	100	Mar-06
13	Pudanchandai	230/110	TNEB	200	May-06
14	Udayathur (2x50)	230/33	TNEB	100	Mar-07
Total 220 kV TNEB				1350	
Total 220 kV SR				7282	
1	Khagaul (Patna)	220/132	BSEB	200	May-05
Total 220 kV BSEB				200	
1	Barkote	220/33	GRIDCO	20	Apr-02
2	Bidansi (2x100) 1st ICT	220/132	GRIDCO	100	Jul-04
3	Bidansi (2x100) 2nd ICT	220/132	GRIDCO	100	Dec-04
4	Meramundali (2nd)	220/132	GRIDCO	100	Jan-06
5	Burla (2x20)	220/132	GRIDCO	40	Mar-06
Total 220 kV GRIDCO				360	
1	Aug. Midnapur (2x160) 1st Tr.	220/132	WBSEB	160	Dec-02
2	Midnapore (2x160) 2nd ICT.	220/132	WBSEB	160	Jun-03
3	Arambagh	220/132	WBSEB	160	Jun-03
4	Rishra(2nd ICT)	220/132	WBSEB	160	Jun-04
5	Domjur (1x160) 1st ICT	220/132	WBSEB	160	Feb-04
6	New Haldia (1x160) 1st ICT	220/132	WBSEB	160	Feb-04
7	New Jalpaiguri (1x160) 1st ICT	220/132	WBSEB	160	Feb-04
8	Rishra (1x160) 1st ICT	220/132	WBSEB	160	Feb-04
9	Laxmikantapur(1x160) 1st ICT	220/132	WBSEB	160	Feb-04
10	Rishra(2nd)	220/132	WBSEB	160	Jun-04
11	New Jalpaiguri (1x160) 2nd ICT	220/132	WBSEB	160	Jul-04
12	Laxmikantapur(1x160) 2nd ICT	220/132	WBSEB	160	Jul-04
13	Domjur(2nd ICT)	220/132	WBSEB	160	Oct-04
14	New Haldia 2nd	220/132	WBSEB	160	May-05
Total 220 kV WBSEB				2240	
Total 220 kV ER				2800	
1	Sarusajai(Aug)(from 63 to 100MVA)	220/132	ASEB	37	Jul-04
2	Sarusajai (MeSEB funded)	220/132	ASEB	100	Jun-05
3	Tinsukia (1st)	220/132	ASEB	50	Sep-05
4	Tinsukia (2nd)	220/132	ASEB	50	Oct-05
5	Mariani (Aug) (100-50) (1st)	220/132	ASEB	50	Feb-06
6	Mariani (Aug) (100-50) (2nd)	220/132	ASEB	50	Jun-06
Total 220 kV NER				337	
Total 220 kV SS				38184	
Total 220 kV				39594	

CHAPTER 3

TRANSMISSION LINES AND TRANSFORMATION CAPACITY ADDITIONS DURING VARIOUS PLAN PERIODS IN INDIA

The transmission line capacity additions (220 kV and above) during various plan periods till the end of 10th plan at various voltage levels viz 220 kV, 400 kV, 765 kV and ± 500 kV HVDC are indicated in table 3.1(a) & 3.2(b). Similarly, the transformation capacity (220 kV and above) during various plan periods till the end of 10th plan at various voltage levels viz 220 kV, 400 kV, HVDC (Back-to-Back) and ± 500 kV HVDC terminals are indicated in table 3.2(a) & 3.2(b). These tables provide much insight into the achievement in the construction of transmission works, as the achievement vis-à-vis programme during various plan periods has also been incorporated.

Additions of transmission lines and transformation capacity (at 400 kV and 220 kV levels) during various plan periods are also shown in bar charts. The details of 765 kV and ± 500 kV HVDC transmission lines as well as HVDC (Back-to-Back) and ± 500 kV HVDC converter station capacity are given below: -

As on 31.03.2007

1. 765 KV TRANSMISSION LINES (CKm) :

(Operating at 400 kV)

Central Sector	1775
State Sector	409
Total	2184

Details of 765 kV lines (completed):

1. Anpara-Unnao S/C 409 ckm
2. Kishenpur-Moga (W) S/C 275 ckm
3. Kishenpur-Moga (E) S/C 287 ckm
4. Tehri-Meerut ckt-I 186 ckm
5. Tehri-Meerut ckt-II 184 ckm
6. Agra - Gwalior ckt-I 128 ckm
7. Bina - Gwalior S/C 235 ckm

2. ± 500 KV HVDC LINES :

Central Sector	
1. Transmission lines	4368 CKM
2. Converter terminal	7000 MW
State Sector	
1. Transmission lines	1504 CKM
2. Converter terminal	3000 MW

3. HVDC B/B SUB-STATIONS :

(MW)

Central Sector	3000
State Sector	0
Total	3000

Details of +/- 500 kV HVDC lines :

1. Rihand - Dadri (1634 ckm) with 1500 MW terminals at Rihand and Dadri each.
2. Chandrapur-Padghe (1504 ckm) with 1500 MW terminals at Chandrapur and Padghe each.
3. Talchar-Kolar (2734 ckm) with 2000 MW terminals at Talchar and Kolar each (2X1000 MW pole completed at Talcher and Kolar each).

Details of 3000 MW under Central

Sector :

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

TABLE 3.1(a)

TRANSMISSION LINES (CKM) ADDITIONS OF 765 KV & +/-500 KV HVDC IN INDIA

	765 KV TRANSMISSION LINES						+/-500 KV TRANSMISSION LINES					
	CENTRAL		STATE		TOTAL		CENTRAL		STATE		TOTAL	
	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement
1. Transmission lines existing at the end of 7th plan	0	0	0	0	0	0	0	0	0	0	0	0
2. Addition during 1990-92:												
90-91	0	0	0	0	0	0	1634	1634	0	0	1634	1634
91-92	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1634	1634	0	0	1634	1634
3. Total at the end of 1991-92:												
	0	0	0	0	0	0	1634	1634	0	0	1634	1634
4. Addition during 8th plan:												
92-93	0	0	0	0	0	0	0	0	0	0	0	0
93-94	0	0	0	0	0	0	0	0	0	0	0	0
94-95	0	0	0	0	0	0	0	0	0	0	0	0
95-96	0	0	0	0	0	0	0	0	0	0	0	0
96-97	20	0	0	0	20	0	0	0	360	0	360	0
Total	20	0	0	0	20	0	0	0	360	0	360	0
5. Total at the end of 8th plan:												
	0	0	0	0	0	0	1634	1634	0	0	1634	1634
6. Addition during 9th plan:												
97-98	0	0	0	0	0	0	0	0	900	369	900	369
98-99	0	0	405	318	405	318	0	0	1135	1135	1135	1135
99-2000	325	325	91	91	416	416	0	0	0	0	0	0
2000-01	285	375	0	0	285	375	0	0	0	0	0	0
2001-02	224	51	0	0	224	51	1600	1600	0	0	1600	1600
Total	834	751	496	409	1330	1160	1600	1600	2035	1504	3635	3104
7. Total at the end of 9th plan:												
	751	751	409	409	1160	1160	3234	3234	1504	1504	4738	4738
8. Addition during 10th plan:												
2002-03	173	33	0	0	173	33	1134	1134	0	0	1134	1134
2003-04	149	102	0	0	149	102	0	0	0	0	0	0
2004-05	71	22	0	0	71	22	0	0	0	0	0	0
2005-06	105	287	0	0	105	287	0	0	0	0	0	0
2006-07	660	580	0	0	660	580	0	0	0	0	0	0
Total	1158	1024	0	0	1158	1024	1134	1134	0	0	1134	1134
9. Total at the end of 10th plan:												
	1775	1775	409	409	2184	2184	4368	4368	1504	1504	5872	5872

TABLE 3.1(b)
TRANSMISSION LINES (CKM) ADDITIONS OF 400 KV & 220 KV IN INDIA

	400 KV TRANSMISSION LINES						220 KV TRANSMISSION LINES					
	CENTRAL		STATE		TOTAL		CENTRAL		STATE		TOTAL	
	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement
1. Transmission lines existing at the end of 6th plan		1831		4198	0	6029		1641		44364	0	46005
2. Addition during 7th plan:												
85-86	1138	1181	1290	623	2428	1804	546	617	3052	1930	3598	2547
86-87	1577	2631	483	802	2060	3433	106	232	2601	1922	2707	2154
87-88	1790	1800	904	884	2694	2684	214	214	2516	2473	2730	2687
88-89	2474	2911	350	223	2824	3134	815	956	2380	2042	3195	2998
89-90	2547	2714	303	26	2850	2740	896	900	2322	2340	3220	3240
Total	9526	11237	3330	2558	12856	13795	2579	2919	12871	10707	15450	13626
3. Total at the end of 7th plan:												
		13068		6756		19824		4560		55071		59631
4. Addition during 1990-92:												
90-91	2207	2011	1033	1897	3240	3908	327	148	2703	2341	3030	2489
91-92	2137	1710	741	648	2878	2358	469	384	2556	2525	3025	2909
Total	4344	3721	1774	2545	6118	6266	796	532	5259	4866	6055	5398
5. Total at the end of 1991-92:												
		16789		9301		26090		5092		59937		65029
6. Addition during 8th plan:												
92-93	1283	870	1207	1087	2490	1957	512	501	2772	2536	3284	3037
93-94	637	581	786	796	1423	1377	491	526	2479	2734	2970	3260
94-95	855	1057	651	536	1506	1593	317	192	2783	2867	3100	3059
95-96	1479	1569	419	876	1898	2445	80	12	2035	2532	2115	2544
96-97	1872	2135	2096	545	3968	2680	496	241	2755	2430	3251	2671
Total	6126	6212	5159	3840	11285	10052	1896	1472	12824	13099	14720	14571
7. Total at the end of 8th plan:												
		23001		13141		36142		6564		73036		79600
8. Addition during 9th plan:												
97-98	2027	2061	963	706	2990	2767	418	345	2406	2569	2824	2914
98-99	2024	2378	980	884	3004	3262	696	629	2514	2701	3210	3330
99-2000	640	616	2488	2720	3128	3336	669	791	2884	3141	3553	3932
2000-01	478	672	1495	1419	1973	2091	389	310	4669	3364	5058	3674
2001-02	630	617	1150	1163	1780	1780	108	48	4132	3495	4240	3543
Total	5799	6344	7076	6892	12875	13236	2280	2123	16605	15270	18885	17393
9. Total at the end of 9th plan:												
		29345		20033		49378		8687		88306		96993
10. Addition during 10th plan:												
2002-03	2560	3424	638	380	3198	3804	68	133	2956	2886	3024	3019
2003-04	1877	2173	1508	1115	3385	3288	486	313	3080	3415	3566	3728
2004-05	3771	4351	905	701	4676	5052	72	76	2357	2716	2429	2792
2005-06	3230	5120	620	1140	3850	6260	100	129	2638	2742	2738	2871
2006-07	6509	6579	1439	1361	7948	7940	268	106	4000	5120	4268	5226
Total	17947	21647	5110	4697	23057	26344	994	757	15031	16879	16025	17636
11. Total at the end of 10th plan:												
		50992		24730		75722		9444		105185		114629

TABLE -3.2(a)
TRANSFORMATION CAPACITY (MVA)/(MW) ADDITIONS OF 765 kV, +/- 500 KV HVDC TERMINALS &
HVDC (BACK-TO-BACK) SUB-STATIONS (MW) IN INDIA

	+/- 500 KV HVDC CONVERTER TERMINALS (MW)						HVDC (BACK-TO-BACK) SUB-STATIONS (MW)					
	CENTRAL		STATE		TOTAL		CENTRAL		STATE		TOTAL	
	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement
1. Sub-station (MW) existing at the end of 8th plan		3000		0		3000		500		0		500
2. Addition during 9th plan:												
97-98	0	0		0	0	0		1000	0	0	0	1000
98-99	0	0	3000	3000	3000	3000		500	0	0	0	500
99-2000	0	0	0	0	0	0	0	0	0	0	0	0
2000-01	0	0	0	0	0	0	0	0	0	0	0	0
2001-02	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	3000	3000	3000	3000	0	1500	0	0	0	1500
3. Total at the end of 9th plan:		3000		3000		6000		2000		0		2000
4. Addition during 10th plan:												
2002-03	4000	4000	0	0	4000	4000	500	500	0	0	500	500
2003-04	0	0	0	0	0	0	0	0	0	0	0	0
2004-05	0	0	0	0	0	0	500	500	0	0	500	500
2005-06	0	0	0	0	0	0	0	0	0	0	0	0
2006-07	0	0	0	0	0	0	0	0	0	0	0	0
Total	4000	4000	0	0	4000	4000	1000	1000	0	0	1000	1000
5. Total at the end of 10th plan:		7000		3000		10000		3000		0		3000

TABLE - 3.2(b)
TRANSFORMATION CAPACITY (MVA) ADDITIONS OF 400 KV & 220 KV IN INDIA

	400 KV SUB-STATION (MVA)						220 KV SUB-STATION (MVA)					
	CENTRAL		STATE		TOTAL		CENTRAL		STATE		TOTAL	
	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement	Programme	Achievement
1. Sub-Station (MVA) existing at the end of 6th plan												
	715		8615		0	9330	500		0	36791		37291
2. Addition during 7th plan:												
85-86	1395	1395	1185	630	2580	2025	800	781	3265	2275	4065	3056
86-87	1065	1065	2195	2195	3260	3260	150	300	2485	2335	2635	2635
87-88	565	250	945	1750	1510	2000	300	150	2380	2770	2680	2920
88-89	1195	1575	1240	815	2435	2390	150	150	2686	3500	2836	3650
89-90	1575	1760	700	815	2275	2575	150	0	2956	4190	3106	4190
Total	5795	6045	6265	6205	12060	12250	1550	1381	13772	15070	15322	16451
3. Total at the end of 7th plan:												
	6760		14820			21580		1881		51861		53742
4. Addition during 1990-92:												
90-91	1890	1260	830	0	2720	1260	150	250	2898	4050	3048	4300
91-92	1825	1890	630	830	2455	2720	0	0	2571	2943	2571	2943
Total	3715	3150	1460	830	5175	3980	150	250	5469	6993	5619	7243
5. Total at the end of 1991-92:												
	9910		15650			25560		2131		58854		60985
6. Addition during 8th plan:												
92-93	2770	2455	1120	1710	3890	4165	300	150	2648	3992	2948	4142
93-94	1890	2140	1070	1070	2960	3210	185	150	3305	3903	3490	4053
94-95	315	315	2260	2075	2575	2390	35	35	3245	3495	3280	3530
95-96	1260	1260	1575	2075	2835	3335	0	0	2535	5790.5	2535	5790.5
96-97	1260	1260	3075	945	4335	2205	35	100	6800	5576.5	6835	5676.5
Total	7495	7430	9100	7875	16595	15305	555	435	18533	22757	19088	23192
7. Total at the end of 8th plan:												
	17340		23525			40865		2566		81611		84177
8. Addition during 9th plan:												
97-98	1260	945	1890	1260	3150	2205	50	0	5360	6016	5410	6016
98-99	0	630	2205	2205	2205	2835	150	50	4690	5435	4840	5485
99-2000	3085	2455	3905	3775	6990	6230	100	150	5335	8060	5435	8210
2000-01	1575	1575	4280	2520	5855	4095	150	0	6045	8155	6195	8155
2001-02	630	630	4780	3520	5410	4150	100	100	5310	4220	5410	4320
Total	6550	6235	17060	13280	23610	19515	550	300	26740	31886	27290	32186
9. Total at the end of 9th plan:												
	23575		36805			60380		2866		113497		116363
10. Addition during 10th plan:												
2002-03	3335	4280	1890	1345	5225	5625	150	150	5051.5	5315	5201.5	5465
2003-04	2205	1260	4150	3205	6355	4465	250	50	6283	8372	6533	8422
2004-05	2205	1260	3020	1760	5225	3020	460	500	6033	8662	6493	9162
2005-06	3885	4725	3570	5540	7455	10265	500	510	7260	6995	7760	7505
2006-07	6615	5355	4515	3832	11130	9187	900	200	7283	9380	8183	9580
Total	18245	16880	17145	15682	35390	32562	2260	1410	31910.5	38724	34170.5	40134
11. Total at the end of 10th plan:												
	40455		52487			92942		4276		152221		156497

Chart 1/2
Growth in Transmission Lines (CKm) at end of Various Plan Periods

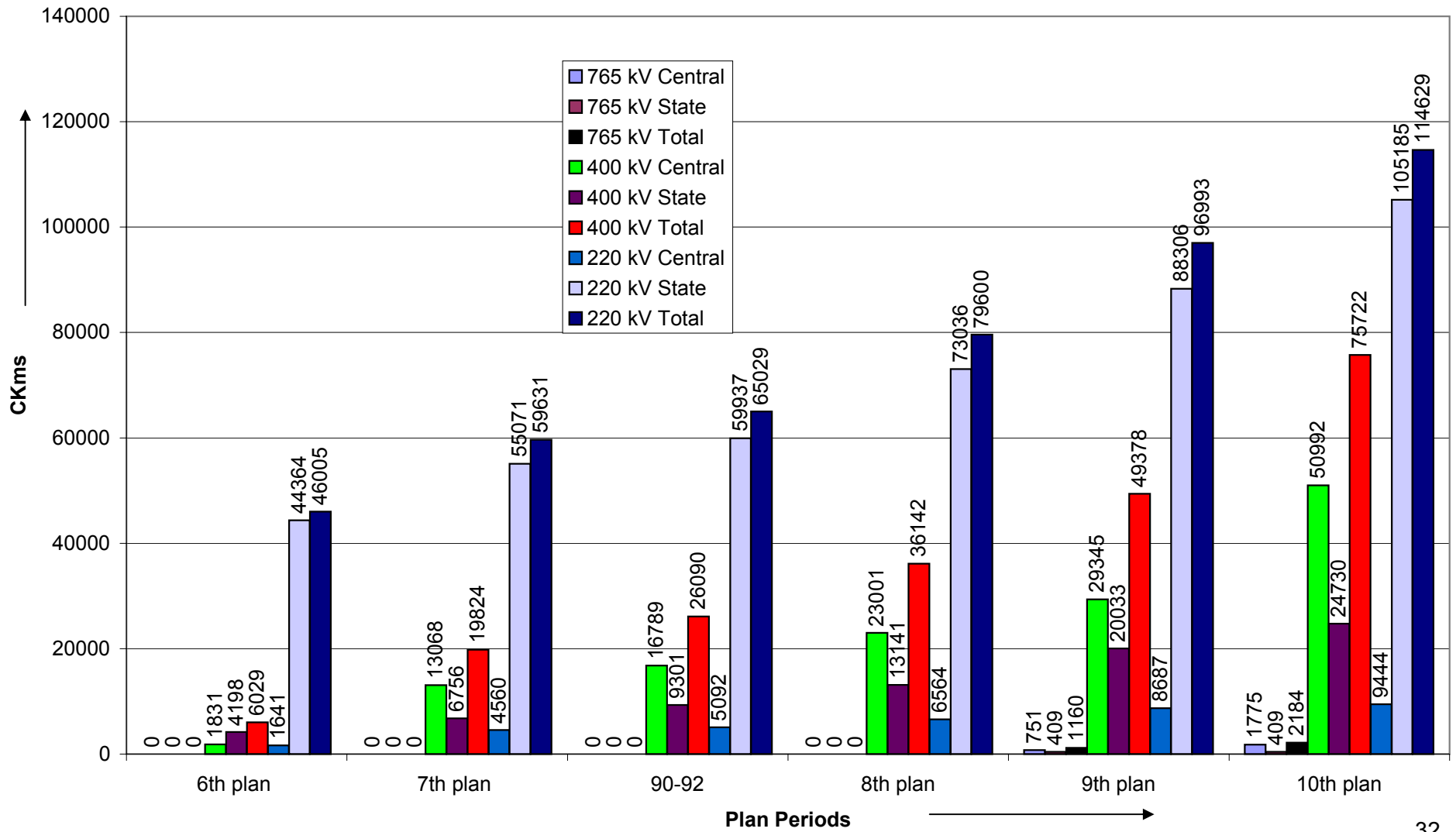
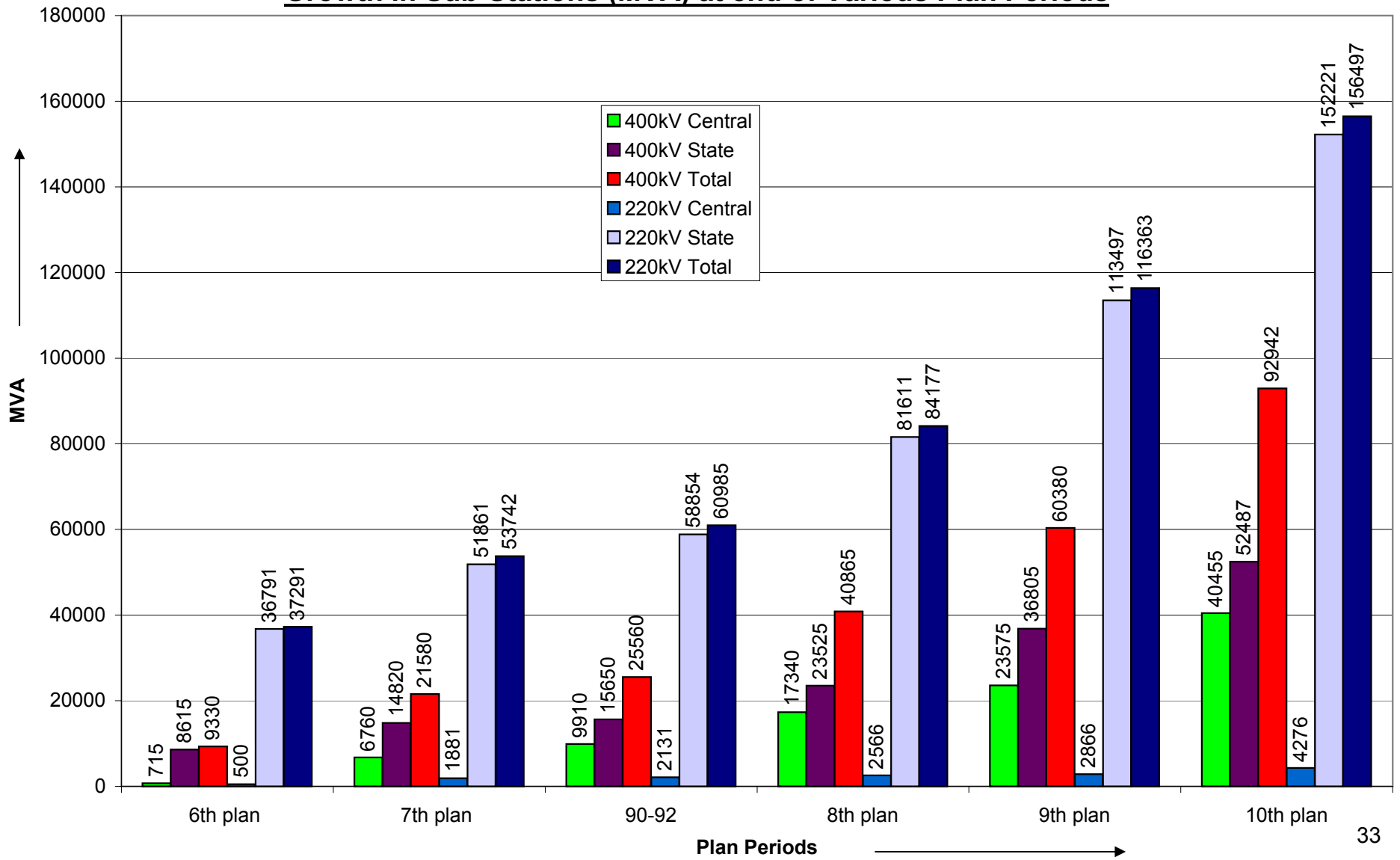


Chart 2/2
Growth in Sub-Stations (MVA) at end of Various Plan Periods



CHAPTER – 4

FUNDS REQUIREMENTS FOR TRANSMISSION SCHEMES FOR 11TH PLAN PERIOD

The funds requirements for transmission schemes for the 11th Plan period was worked out during the Review Meeting held in the Power System Project Monitoring Division from November 2006 to March 2007 in consultation with utilities. The requirement of funds for transmission works in India (220 kV and above) works out to be Rs. 1,40,000 crores.

The transmission function still remains with the public sector utilities that are heavily dependent on the plan outlays for undertaking construction programme. At times, the plan allocation, though meager, is not made available to these utilities by the State Governments. Even in some cases, the plan allocation is made available after deducting the dues outstanding against these utilities from PSUs. The other sources of financing transmission schemes like International and domestic financial institutes etc. are also drying up as these Utilities do not meet the norms set by such institutions. Utilities own contribution, however, is marginal. All these aspects are contributing towards slower growth of capacity addition in transmission network.

Table 4 depicts the Utility wise fund requirements for transmission schemes for 11th Plan period (2007-12).

TABLE-4

FUNDS REQUIREMENTS FOR TRANSMISSION SCHEMES FOR XI TH PLAN PERIOD

All figures in Rs. Crores

Sl. No.	Name of the Utility	Transmission Works						R&M	Total 11th Plan	Remarks
		Proposed 2007-08	Proposed 2008-09	Proposed 2009-10	Proposed 2010-11	Proposed 2011-12				
I State Sector										
a. Northern Region										
1	Chandigarh	12	4*	4	6	7*		33		
2	DTL	375	595	541	378	117		2006		
3	HPSEB	300	239	395	210	85		1229		
4	HVPN	43	127	236	128	20		554		
5	PDD, J&K	205	200	104	400	435		1344		
6	PSEB	185	241	310	378	421		1535		
7	RVPN	448	640	843	710	630		3271		
8	UPPCL	562	425*	425*	550*	650*		2612		
9	Uttarakhand	100*	150*	200*	250*	250*		950		
	Total N.R.	2230	2621	3058	3010	2615	0	13534		
b. Western Region										
1	CSEB	553	1185	1392	774	177		4081		
2	GETCO	39	265	305	36	100		745		
3	GOA	35	42	45*	45*	50*		217		
4	MPPTCL	346	697	715	452	126		2336		
5	MSETCL	581	1117	2800	2507	1836		8841		
6	D&D	2*	3	31	15	2		53		
7	DNH	3	23	27	30*	1		84		
	Total W.R.	1559	3332	5315	3859	2292	0	16357		
c. Southern Region										
1	APTRANSCO	744	897	946	766	909		4262		
2	KPTCL	1189	1298	447	218	375		3527		
3	KSEB	250*	300*	350*	400*	450*		1750		
4	TNEB	1702	1666	268	478	1217		5331		
5	Puducherry	32	51	49	55	56		243		
	Total S.R.	3917	4212	2060	1917	3007	0	15113		
d. Eastern Region										
1	BSEB	500*	550*	600*	650*	700*	54	3054		
2	OPTCL	660	405	246	128	93		1532		
3	JSEB	155	319	220	193	145		1032		
4	WBSEB	142	204	1426	287	309		2368		
5	Sikkim	638	2588	2919	1300	650		8095		
	Total E.R.	2095	4066	5411	2558	1897	54	16081		
e. N-E Region										
1	Arunachal Pradesh	107	129	174	243	193		846		
2	ASEB	112	294	443	478	341		1668		
3	Manipur	30	35	40	45	57		207		
4	MeSEB	129	147	106	72	57		511		
5	Mizoram	86	52	19	19	20		196		
6	Nagaland	93	114	14	0	0		221		
7	Tripura	26	55	60	65	67		273		
	Total N-E Region	583	826	856	922	735	0	3922		
	Total State Sector	10384	15057	16700	12266	10546	54	65007		
II Central Sector										
1	PGCIL	6465	11014	13084	13009	10979		54551		
2	JV with PGCIL	35	167	120	68	42		432		
3	DVC	102	428	367	379	418		1694		
4	Private Bidders	2500	3000	4000	4500	5000		19000**		
	Total C.S. & JV	9102	14609	17571	17956	16439	0	75677		
	Total all India	19486	29666	34271	30222	26985	54	140684		

* Assumed based on past data

Say 140000

** Estimated figure

CHAPTER – 5

CONSTRUCTION PROGRAMME OF TRANSMISSION SCHEMES FOR THE YEAR 2007-08 AND FOR YEARS 2008-12 OF 11TH PLAN

The construction programme of transmission schemes (220 kV and above) for the year 2007-08 was formulated in consultation with Central and State Power Utilities and approved by Central Electricity Authority in different meetings.

The programme envisaged for the year 2007-08 for transmission lines and transformation capacity is furnished in Table 5.1.

Table 5.2 depicts the summary of utility wise programme of construction of the transmission Lines (220 kV and above) and transformation capacity respectively for the year 2007-08. Details are given in Table 5.3 & 5.4.

Construction Programme of transmission lines and transformation capacity for the years 2008-12 (next years of 11th Plan) is enclosed at Table 5.5 & 5.6 respectively.

TABLE – 5.1

THE TRANSMISSION SCHEMES (220 kV AND ABOVE) FOR THE YEAR 2007-08

ABSTRACT OF THE CONSTRUCTION PROGRAMME OF THE TRANSMISSION SCHEMES (220 kV AND ABOVE)

ANNUAL ACTION PLAN

A. TRANSMISSION LINES (CKM)

Voltage Level	Quarter (2007-08)				Total 2007-08	LAST YEAR ACHIEVEMENT
	1st	2nd	3rd	4th		
1	2	3	4	5	6	7
765 kV	0	0	0	160	160	580
+/- 500 kV	0	0	0	0	0	1134
400 kV	1947	1713	1899	1375	6934	7940
220 kV	962	846	1493	2113	5414	5223
Total	2909	2559	3392	3648	12508	14877

B. SUB-STATIONS (MVA/MW)

Voltage Level	Quarter (2007-08)				Total 2007-08	LAST YEAR ACHIEVEMENT
	1st	2nd	3rd	4th		
1	2	3	4	5	6	7
765 kV	669	0	1500	0	2169	0
HVDC TER.	0	0	0	0	0	4000
HVDC B/B	0	0	0	0	0	1000
400 kV	3650	1890	3780	3315	12635	9187

NOTE :- The summary details of the construction programme of transmission lines and transformation works (220 kV and above) for the year 2007-08 utility wise are given in table – 5.3 & 5.4.

TABLE-5.2

**UTILITYWISE DETAILS OF CONSTRUCTION PROGRAMME OF
TRANSMISSION SCHEMES FOR THE YEAR 2007-08
ANNUAL ACTION PLAN (2007-08)**

TRANSMISSION LINES (CKM) :

Utility 1	Voltage 2	Q1 3	Q2 4	Q3 5	Q4 6	Total 7
POWERGRID (CS)	765	0	0	0	160	160
Total (CS)	765	0	0	0	160	160
Total (All India)	765	0	0	0	160	160
POWERGRID (CS)	400	1424	1158	1472	841	4895
Total (CS)	400	1424	1158	1472	841	4895
Himachal Pradesh	400	0	0	0	0	0
Rajasthan	400	66	123	0	10	199
Uttar Pradesh	400	0	0	10	90	100
Uttarakhand	400	0	37	98	255	390
J & K	400	139	0	0	0	139
Chhattisgarh	400	114	240	160	0	514
Gujarat	400	0	23	47	80	150
Madhya Pradesh	400	0	0	0	36	36
Maharashtra	400	0	0	0	0	0
Andhra Pradesh	400	60	49	22	0	131
Orissa	400	15	11	12	12	50
West Bengal	400	129	72	78	51	330
Jharkhand	400	0	0	0	0	0
Total (SS)	400	523	555	427	534	2039
Total (All India)	400	1947	1713	1899	1375	6934
POWERGRID	220	45	74	30	10	159
DVC	220	0	0	12	53	65
Total (CS)	220	45	74	42	63	224
Chandigarh	220	0	0	0	0	0
Delhi	220	14	0	17	45.3	76.3
Himachal Pradesh	220	20	23	56	86	185
Haryana	220	0	8	125	166	299
Punjab	220	132	29	8	0	169
Rajasthan	220	94	40	138	300	572
Uttar Pradesh	220	62	62	138	158	420
Uttarakhand	220	0	0	0	100	100
Jammu & Kashmir	220	79.9	30	30	12.9	152.8

Chhattisgarh	220	127	122	163	134	546
Gujarat	220	70	55	84	73	282
Goa	220	0	0	0	20	20
Madhya Pradesh	220	33	31	96	220	380
Maharashtra	220	33	27	77	136	273
Andhra Pradesh	220	45	66	57	59	227
Karnataka	220	0	40	91	70	201
Kerala	220	0	10	11	12	33
Tamilnadu	220	59	88	63	63	273
Bihar	220	0	30	51	64	145
Orissa	220	88	51	126	150	415
Jharkhand	220	0	0	24	36	60
West Bengal	220	60	60	96	145	361
Assam	220	0	0	0	0	0
Total (SS)	220	917	772	1451	2050	5190
Total (All India)	220	962	846	1493	2113	5414

SUBSTATION (MVA/MW) :

POWERGRID (CS)	765	669	0	1500	0	2169
POWERGRID (CS)	400	3020	1575	3465	880	8940
Delhi	400	0	0	0	0	0
Rajasthan	400	0	0	0	630	630
Uttar Pradesh	400	0	0	0	435	435
Uttarakhand	400	0	0	0	0	0
Gujarat	400	0	0	0	630	630
Maharashtra	400	0	0	0	0	0
Andhra Pradesh	400	315	0	315	0	630
Karnataka	400	0	0	0	0	0
Tamilnadu	400	0	0	0	0	0
Jharkhand	400	0	0	0	740	740
West Bengal	400	315	315	0	0	630
Total (SS)	400	630	315	315	2435	3695
Total (All India)	400	3650	1890	3780	3315	12635
POWERGRID	220	0	0	0	0	0
DVC	220	0	0	0	200	200
Total (CS)	220	0	0	0	200	200
Chandigarh	220	0	0	0	0	0
Delhi	220	0	100	220	740	1060
Himachal Pradesh	220	0	0	0	190	190
Haryana	220	0	0	200	200	400
Punjab	220	100	100	0	0	200

Rajasthan	220	0	0	0	100	100
Uttar Pradesh	220	0	0	400	960	1360
Uttarakhand	220	100	0	200	0	300
PDD, J & K	220	0	0	0	150	150
Chattisgarh	220	0	0	0	640	640
Gujarat	220	0	0	100	480	580
Goa	220	0	0	0	0	0
Madhya Pradesh	220	0	0	0	740	740
Maharashtra	220	0	0	0	550	550
Andhra Pradesh	220	100	100	200	0	400
Karnataka	220	50	100	300	0	450
Kerala	220	100		100	0	200
Tamilnadu	220	150	0	100	100	350
Bihar	220	700	450	100	200	1450
Orissa	220	500	0	100	100	700
West Bengal	220	0	0	320	480	800
Jharkhand	220	0	0	0	0	0
Assam	220	0	0	0	0	0
Total (SS)	220	1800	850	2340	5630	10620
Total (All India)	220	1800	850	2340	5830	10820

Legend

CS - Central Sector

SS - State Sector

Q - Quarter

TABLE-5.3

TRANSMISSION LINES PROGRAMME FOR 07-08

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised

765 kV CENTRAL SECTOR :**POWERGRID (PGCIL) :**

1	Sipat - Seoni Line1	S/C	351	Feb-07	Jun-07
2	Sipat - Seoni Line2	S/C	354	Sep-07	

Total 765 kV CS 705

400 kV CENTRAL SECTOR :**POWERGRID (PGCIL) :**

1	LILO of Dadri - Ballabgarh at Delhi	D/C	60	Jun-06	Jul-07
2	Biharshariff - Balia (Quad)	D/C	484	Jul-07	Jul-07
3	Maithon - Ranchi	D/C	400	Jul-07	Jul-07
4	Balia - Lucknow	D/C	632	Jul-07	Apr-07
5	Lucknow - Bareilly	D/C	510	May-07	Jul-07
6	Ranchi - Sipat	D/C	816	Jun-07	Oct-07
7	LILO of Kahalgaon(PG) -Patna(PG) (Quad) at Barh.	D/C	100	Sep-09	Mar-08
8	Bareilly (PG) - Moradabad	S/C	91	May-07	Jul-07
9	LILO of Lucknow - Moradabad at Bareilly	D/C	22	May-07	Jul-07
10	LILO of Bareilly - Mandaula at Bareilly	2xD/C	37	May-07	Jul-07
11	LILO of Sultanpur - Lucknow at Lucknow	D/C	42	May-07	Jul-07
12	Malerkotla - Ludhiana	S/C	36	Mar-08	
13	Ludhiana - Jalandhar	S/C	85	Mar-08	
14	LILO of One ckt. of Hissar - Moga at Fatehabad.	D/C	59	Mar-08	
15	LILO of one ckt of Dhauliganga - Bareilly at Pithoragarh (Operated at 220 kV)	D/C	6	Mar-07	Mar-08
16	Line from Singrauli to a point 2.3 Km near existing Vindhyachal - Kanpur Line.	D/C	5	Apr-07	Jun-07
17	RAPP 5 & 6 - Kankroli	D/C	396	Mar-08	
18	RAPP 5 & 6 - Kota (28 Km M/Ctowers)	S/C	51	Mar-08	
19	Seoni - Khandwa (Quad)	D/C	703	Feb-07	Jul-07
20	Nagda - Dehgam	D/C	664	Feb-07	Sep-07
21	LILO of S/C Bhilai - Satpura at Seoni	D/C	4	Feb-07	Jul-07
22	LILO of both ckt of Sardar Sarovar - Nagda at Rajgarh	D/C	18	Feb-07	Dec-07
23	Khandwa - Rajgarh	D/C	440	Aug-07	Dec-07
24	LILO of Korba - Raipur, S/C at Bhatapara	D/C	5	Aug-07	Aug-07
25	Bina - Nagda	D/C	662	May-07	Mar-08
26	Vindhyachal - Korba	S/C	291	Apr-07	Jul-07
27	Satna - Bina	D/C	545	Jul-07	Jul-07
28	LILO of Rourkela - Raipur at Raigarh	D/C	37	Jul-07	
29	Sipat - Raipur	D/C	296	Sep-07	Nov-07
30	Gooty - Raichur	D/C	294	Apr-07	Jul-07

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised
31	Narendra - Davangere	D/C	312	Sep-07	
32	Mysore - Kozhikode	D/C	421	Dec-07	
33	LILO of Kolar-Sriperumbadur at Melakottaiyur .	D/C	36	Dec-07	
34	Neyveli (Expn.) Sw. Yd.- Neyveli 2x S/C	S/C	6	Dec-07	
35	Neyveli TS -II - Pugalur	D/C	438	Dec-07	
36	Pugalur - Madurai	D/C	246	Dec-07	
37	Udumalpet - Arasur	D/C	132	Dec-07	
38	LILO of Neyveli - Sriperumbadur at Pondicherry	D/C	30	Dec-07	
39	LILO of Ramagundam - Khammam at Warangal	D/C	36	Dec-07	
40	Kundankulam - Tirunelveli (Quad) -I	D/C	144	May-07	Jul-07
41	Kundankulam - Tirunelveli (Quad) -II	D/C	160	Dec-07	
42	Tirunelveli - Udumalpet	D/C	524	Dec-07	
43	LILO of both ckt of Madurai (PG) - Trivandrum (PG) at Tirunelveli	D/C	212	May-07	Jul-07
44	LILO of both Ckt of Gazuwaka-Vijayawada at Vemagiri S/S	D/C	148	Dec-07	
45	Teesta -V HEP - Siliguri	D/C	228	May-08	Mar-08
Total 400 kV CS			10864		

400 kV STATE SECTOR :

NORTHERN REGION (NR) :

HIMACHAL PRADESH (HP) :

1	Nalagarh-Kunihar	S/C	33	Sep-04	Jul-07
Total			33		

RAJASTHAN (RVPN) :

1	Ratangarh-Merta	S/C	175	Mar-06	Jun-07
2	Dholpur GTPS-Heerapura	S/C	283	Mar-06	Jun-07
3	KTPS-Kota(PG) (charged at 220 kV)	D/C	10	Mar-08	
Total			468		

UTTAR PRADESH (UPPCL) :

1	LILO of Anpara-Varanasi at Obra TPS	D/C	21	Jun-05	Jul-07
2	LILO Agra-Moradabad at Bagpat	D/C	100	Mar-08	
Total			121		

JAMMU & KASHMIR (J&K) :

1	Kishenpur-Baglihar	D/C	136	May-07	Jul-07
2	LILO of one ckt of Wagoora -Kishenpur at Baglihar	D/C	3	May-07	Jul-07
Total			139		

Total 400 kV NR 761

WESTERN REGION (WR) :

CHHATTISGARH (CSEB) :

1	Korba (W)-Bhilai (Khedamara)	D/C	400	Mar-08	
2	JTPS- Raipur	D/C	514	Sep-07	
Total			914		

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised
GUJARAT (GETCO) :					
1	Dehgam (PGCIL)-Ranchodpura	D/C	130	Dec-07	
2	LILO of one Ckt of Asoj--Amreli at Chorania	D/C	42	Dec-07	
3	Pirana-Dehgam	D/C	108	Mar-07	Jul-07
4	TPGL-Pirana	D/C	520	Mar-08	
5	LILO of Jhanor-Vapi S/C at TPGL	D/C	196	Apr-07	Jul-07
Total			996		
MADHYA PRADESH (MPPTCL):					
1	LILO of Birsinghpur - Damoh D/C at Damoh (PG)	2xD/C	32	Jun-07	Jul-07
2	Interconnector of Birsinghpur-Katni-Damoh at Birsinghpur	D/C	2	Mar-08	
Total			34		
MAHARASHTRA (MSEB) :					
1	Dabhol-Nagothane (2nd Ckt)	S/C	134	Mar-07	Jan-08
2	LILO of Bhusawal-Koradi 1st Ckt at Akola	D/C	80	Sep-07	
Total			214		
Total 400 kV WR			2158		
SOUTHERN REGION (SR) :					
ANDHRA PRADESH (APTRANSCO) :					
1	Ramagundam(NTPC)-Ditchpally line	D/C	170	Jun-07	Mar-08
2	LILO of Ramagundam -Ghanapur S/C line at Gazwel	D/C	22	Dec-07	
Total			192		
Total 400 kV SR			192		
EASTERN REGION (ER) :					
ORISSA (GRIDCO) :					
1	Meramundali-Mendhasal (Chandaka)	D/C	200	Jun-02	Jul-07
2	IB-Meramundali	D/C	470	Jun-02	Jul-07
Total			670		
JHARKHAND (JSEB) :					
1	Tenughat - Ranchi	D/C	200	May-07	Jul-07
2	Chandil - Jamshedpur	D/C	220	May-07	Jul-07
3	Ranchi (JSEB) - Ranchi (PG),Interconnector	D/C	40	May-07	Jul-07
Total			460		
Total 400 kV ER			1130		
Total 400 kV SS			4241		
Total 400 kV CS & SS			15105		
<u>220 kV CENTRAL SECTOR (CS) :</u>					
POWERGRID (PGCIL) :					
1	Unchahar - Raibareilly	S/C	43	May-08	Jul-07
2	LILO of one ckt of Unchahar-Lucknow at Raibareilly.	D/C	2	May-08	Jul-07
3	LILO of one ckt of Tanakpur - Bareilly at Sitarganj	D/C	44	Mar-07	Sep-07
Total			89		

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised

DAMODER VALLEY CORPORATION (DVC) :

1	LILO of Kalyaneshwari-Chandrapur TPS at Dhanbad	2xD/C	30	Jun-05	Jul-07
2	Dhanbad-Giridih	D/C	86	Jun-05	Jul-07
3	Giridih-Kodarma	D/C	200	Dec-05	Jul-07
4	MTPS-Durgapur	D/C	64	Mar-07	Jul-07
Total			380		
Total 220 kV CS			469		

220 kV STATE SECTOR :

NORTHERN REGION (NR) :

CHANDIGARH :

1	Ganguwal-Mohali (2nd Ckt. Stringing)	S/C	72	Jun-06	Jul-07
Total			72		

DELHI (DTL) :

1	Gazipur-Noida	D/C	16	Mar-04	Jul-07
2	LILO of Bawana-Najafgarh at Khanjawla	D/C	12	Jun-03	Jul-07
3	LILO of South of Wazirabad – Patparganj at Geeta Colony	2xD/C	0.3	Mar-06	Jul-07
4	LILO of Narela-Najafgarh at Bawana	D/C	4	Mar-06	Jul-07
5	Papankalan-I- Papankalan-II	D/C	11	Mar-06	Jul-07
6	LILO of one circuit of Bawana - Narela at Bawana DSIDC	D/C	14	Dec-05	Jul-07
7	U/G of Maharani Bagh-Lodhi Road	D/C	2.3	Mar-08	
8	U/G of Maharani Bagh(PG)-Masjid Moth	D/C	19	Mar-08	
9	U/G of Maharani Bagh-Electric lane	D/C	19	Mar-08	
10	U/G of Maharani Bagh-AIIMS	D/C	22	Mar-08	
Total			120		

HIMACHAL PRADESH (HPSEB) :

1	Kashang-Bhaba	D/C	76	Mar-07	Jul-07
2	LILO Kashang-Bhaba at Bhoktoo	D/C	220	Jul-07	
3	Giri - Moginand (Kala Amb) 220/132kV S/S,S/C on D/C	D/C	30	Mar-08	
4	LILO of Bhaba- Kunihar-Panchkula at Baddi	D/C	42	Mar-08	
5	Khodri-Majri (1st circuit) S/C	S/C	35	Mar-08	
6	Khodri-Majri (2 nd circuit) S/C	S/C	35	Mar-08	
Total			438		

HARYANA (HVPN) :

1	Badshapur – Rewari , (2nd Circuit)		50	Jun-06	Jul-07
2	LILO of D/C of Kaithal – Cheeka at 400 kV Kaithal PG	2xD/C	8	Sep-06	Jul-07
3	Hissar(BBMB)-Hissar IA (2 nd Ckt)	S/C	1.5	Mar-07	Jul-07
4	Badshapur – IMT Manesar (2 nd Ckt)	S/C	12	Mar-07	Mar-08
5	LILO of 2nd circuit of Narwana – Fatehabad at Bhuna	D/C	22	Dec-07	
6	Yamunanagar TPP – Salimpur (Ladwa)	D/C	120	Mar-07	Sep-07

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised
7	Yamunanagar TPP-Jorian (Yamunanagar)	D/C	40	Mar-07	Jul-07
8	YTPP- Abdullapur	D/C	50	Mar-08	
9	YTPP- Nilokheri	D/C	140	Mar-08	
10	Nilokheri-Karnal	S/C	21	Dec-07	
11	Hissar (Mayyar)-Isharwal	D/C	106	Mar-08	
Total			571		

PUNJAB (PSEB) :

1	Guru Nanak Dev TPS - Muksar (2nd ckt)	S/C on D/C	53	Jun-05	Jul-07
2	Sarna-Kotli Surat Malli	S/C on D/C	62	Sep-02	Jul-07
3	Muksar-Abohor	S/C on D/C	50	Jun-06	Dec-07
4	LILO of Patti-Verpal at Tarn-Taran	S/C	20	Mar-06	Dec-07
5	Khasa – Amritsar (at Balachak (PGCIL))	D/C	34	Jun-05	Jun-07
6	LILO of Malerkotla – Lalton Kalan S/C at Pakhowal	D/C	2	Mar-06	Jul-07
7	Muktasar-Ghobaya (2nd Circuit)	D/C	40	Mar-06	Jul-07
8	LILO of one ckt of Mohali - Rajpura at Mohali - II	D/C	1	Mar-07	Jul-07
9	LILO of Mohali-I – Dera Bassi at Mohali-II	D/C	2	Mar-07	Jul-07
10	LILO of Gobindgarh-I - Gobindgarh-II at Amlah Road Gobindgarh	D/C	1	Mar-07	Jul-07
11	Humbran–FZR Rd Ludhiana	D/C	30	Mar-07	Jul-07
12	Phagan Majra (400 kV) - F.P.Nabha	D/C	23	Mar-08	
13	Mohali-Dera Bassi (2nd circuit)	S/C	29	Jun-07	Jul-07
14	LILO of one circuit of GGSSTP – Mohali-I at Kharar	D/C	10	Dec-07	
15	Nalagarh-Mohali -I	D/C	107	Jul-07	
16	GHTP-Kangar	D/C	52	Jun-07	Jul-07
Total			516		

RAJASTHAN (RVPN) :

1	Opening of one ckt of Heerapura-Bassi line and connecting Sanganer & Phulera	S/C	59	Mar-04	Jul-07
2	Mada- Barmer	D/C	258	Jun-06	Apr-07
3	Barsingsagar-Nagaur	S/C	107	Mar-06	Jul-07
4	Giral LTPS- Barmer (Line-II)	S/C	32	Mar-06	Jul-07
5	LILO of Bhilwara-Kankroli, S/C at Kankroli	D/C	2	Mar-08	
6	Kankroli (400 kV)-Kankroli (220 kV)	S/C	22	Mar-08	
7	Dhorimanna-Bhinmal	S/C	96	Mar-06	Jul-07
8	Barsingsar TPS-Khinvsar	S/C	100	Mar-08	
9	Khinvsar-Bhopalgarh	S/C	36	Mar-08	
10	LILO of Jaipur – Kota at Duni	D/C	6	Mar-08	
11	Kota (400 kV PG)-Kota (220 kV)	2xD/C	1	Mar-08	
12	Bhiwadi(PG)-Neemrana	S/C	65	Mar-08	
13	Suratgarh STPS-Bhadra	S/C	110	Mar-08	
14	Kankroli (PG)-Debari	S/C	70	Mar-08	
Total			964		

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised

UTTAR PRADESH (UPPCL) :

1	Matore(PG)-Nehtaur	S/C	72	Dec-07	
2	Muzaffarnagar-Shamli	S/C	65	Mar-08	
3	LILO Saharanpur-Shamli	D/C	6	Mar-08	
4	LILO Moradabad-C.B.Ganj	D/C	24	Mar-08	
5	Moradabad-NAPP	D/C	4	Mar-08	
6	Loni-Muradnagar	D/C	25	Mar-08	
7	Loni-Muradnagar (400 kV S/S)	D/C	25	Mar-08	
8	LILO Khurja-Muradnagar at Dadri	D/C	24	Mar-08	

Total 245

UTTARAKHAND (UPCL) :

1	Kashipur-Haldwani	S/C on D/C	70	Dec-05	Jul-07
2	Rishikesh-Maneribali Stage-II (3rd ckt)	S/C	110	Dec-05	Jun-07
3	LILO of Rishikesh- Roorkee at Haridwar	D/C	4	Dec-05	Jun-07
4	LILO of Maneri-I -- Rishikesh at Maneri -II	D/C	4	Mar-07	Jun-07
5	LILO of Khodri-Rishikesh at Dehradun	D/C	2	Mar-07	Aug-07
6	Kashipur - Barheni	D/C	52	Dec-06	Jun-07
7	Barheni - Pantnagar	S/C	60	Dec-06	Jun-07
8	Barheni - Haldwani	S/C	35	Dec-06	Jun-07

Total 337

JAMMU & KASHMIR (J&K) :

1	Barn-Kishenpur	D/C	74.8	Mar-08	
2	Stringing of 2nd ckt Thein-Hiranagar	S/C	40	Mar-08	

Total 115

Total 220 kV NR 3377

WESTERN REGION (WR) :

CHATTISGARH (CSEB) :

1	Korba (E)-Bhatapara	D/C	280	Mar-08	Dec-07
2	LILO of Korba – Amarkantak at Pendra	D/C	23	Jun-06	Jun-07
3	Bhatapara (Suhela) – Mahasamund	D/C	124	Dec-07	Jul-07
4	LILO of Korba (E) – Bhatapara 2 nd Ckt. at Champa	D/C	2	Mar-08	Mar-08
5	JTPS-Raigarh Industrial Estate	D/C	40	Dec-06	Jul-07
6	JTPS-Raigarh	D/C	108	Jun-07	Jul-07
7	Rajendra Steel-Siltara 2nd S/C	S/C	2	Jun-07	Jul-07
8	LILO Bhatapara-Kumari at Bhatapar(PG)	D/C	12	Aug-07	

Total 591

GUJARAT (GETCO) :

1	Bardoli-Chikali	D/C	96	Dec-07	
2	Rajkot-Morbi	D/C	146	Apr-07	Jun-07
3	LILO of Kansari - Tharad D/C at Lakhani	D/C	8	Mar-07	Jun-07

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised
4	Dhanki-Adalsar	D/C	18	Mar-07	Jun-07
5	Akhakol-Puna	D/C	73	Apr-07	Jun-07
6	Akhakol-Bhatar	D/C	130	Apr-07	Jun-07
7	Akhakol-Ved	D/C	46	Apr-07	Jun-07
8	LILO of Vav-Jagadia on Ckt-1 at Kosamba	D/C	10	Mar-08	
9	LILO of Anjar-Panandro both ckt at Kukma	D/C	10	Mar-08	
10	GSEG-Kosamba	D/C	130	Mar-08	
11	LILO of 2nd ckt of Ukai(T)-Vav at Bardoli	D/C	10	Mar-08	
12	Adalsar-Bala	D/C	20	Mar-08	
13	LILO of GSEC-Kim Ckt 1 at Ichhapore	D/C	10	Mar-08	
14	LILO of Nanikhakhar-Shivlakh D/C at Varsana	D/C	20	Mar-08	
Total			727		
GOA :					
1	Xeldem-Cuncolin	D/C	20	Jun-07	
Total			20		
MADHYA PRADESH (MPPTCL) :					
1	LILO of Barwaha-Nepanagar (Khandwa) at Omkareshwar	2xD/C	120	Mar-08	
2	Birsinghpur-Jabalpur	D/C	274	Sep-08	Mar-08
3	LILO of both ckts of Bhopal-Itarsi at Itarsi	2xD/C	4	Apr-07	Jun-07
4	LILO of Birsinghpur-Satna at Amarkantak	D/C	88	Mar-08	
5	LILO of Birsinghpur-Rewa for Sidhi	D/C	118	Mar-08	
6	LILO of Dhar-Rajgarh at Rajgarh(PG)	2xD/C	46	Feb-08	Mar-08
7	Seoni 400 kV(PG)-Seoni(MP)	D/C	9	Sep-07	Jun-07
8	LILO of Birsinghpur(T)-Birsinghpur(H) 2nd Ckt at Birsinghpur	D/C	8	Dec-07	
9	LILO of 1st Ckt of Itarsi-Bhopal at Mandideep	D/C	12	Mar-08	
10	LILO of 1st Ckt Damoh-Tikamgarh at Damoh(400 kV)	D/C	4	Mar-08	
11	LILO of 1st Ckt Jabalpur-Itarsi at Piparia	D/C	1	Mar-08	
12	LILO of Birsinghpur(T)-Nowrozabad D/C at Birsinghpur S/S	2xD/C	22	Mar-08	
Total			706		
MAHARASHTRA (MSETCL) :					
1	Theur-Jejuri	D/C	38	Dec-06	Jul-07
2	LILO of Malharpeth-Wankuswade for Satara MIDC S/S	D/C	60	Sep-06	Jul-07
3	LILO of Kanhan-Umred S/C on D/C at Umred	D/C	50	Apr-07	Jul-07
4	LILO of Apta-Chinchwad at Urse	D/C	22	Mar-07	Dec-07
5	LILO of Dhule-Dondaicha at Amalner	D/C	80	Mar-07	Dec-07
6	LILO Tarapur-Borivli at Boisar II	D/C	16	Mar-07	Jul-07
7	Boisar (PG)-Wada S/C on D/C	S/C	57	Mar-07	May-07
8	Kolhapur II-Kolhapur-III interconnector	S/C	18	Mar-08	
9	Kolhapur(400 kV) –Talandge S/C on D/C	S/C	4	Mar-08	
10	LILO of Karad – Kolhapur D/C at Wather	D/C	6	Mar-08	

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised
11	LILO Pune Ringmain at Chakan S/C on D/C	S/C	43	Mar-08	
12	Talegaon 400 kV(PG)S/S – Talegaon 220 kV S/S D/C	D/C	20	Mar-08	
13	LILO of Pusad – Nanded (ckt-1) at Hingoli	D/C	72	Mar-08	
14	LILO of Nasik – Kalwa Ckt 3&4 at Baggaon	2xD/C	6	Mar-08	
15	LILO of Padghe – Wada (Ckt-1) at Kudus	D/C	2	Mar-08	
16	LILO of Kalwa – Padghe (Ckt-1)at Airoli (Knowledge Park)	D/C	2	Mar-08	
17	LILO of Kandalgaon – Chinchwad D/C at Hinjewadi-II	2xD/C	6	Mar-08	
18	LILO of Theur – Jejuri D/ConM/C at Magarpatta	2xD/C	30	Mar-08	
19	WCL Ghugus – Matradevi	D/C	30	Mar-08	
20	LILO of Khaperkheda-Bhandara both ckts at Kanan	2xD/C	20	Mar-08	
21	Satara MIDC-Vankusawade	D/C	30	Apr-07	
		Total	612		
		Total 220 kV WR	2656		

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Talapally-Chalakurthy S/C on D/C	S/C	26	Jun-06	Jul-07
2	Vemagiri-Bhimavaram-Gudivada-Nunna	D/C	332	Sep-07	
3	Chalakurthy-Kondamallepalli S/C on D/C	S/C	43	Sep-07	
4	LILO of Nellore-Renigunta at Nellore	D/C	20	Apr-07	Jul-07
5	Vetloor 400 kV S/S - Jurala	D/C	62	Jun-08	
6	Ramagundam- Bellampalli S/C on D/C	S/C	43	Mar-08	
7	LILO from Vijeswaram-VTPS at Kamavarapukota	D/C	46	Sep-07	
8	Boddepallipeta-Tekkali S/C on D/C	S/C	44	Dec-07	
9	LILO from Mamidipally- Yeddumallaram at Shadnagar	D/C	36	Mar-08	
10	Dichpally 400 kV S/S- Dichpally	D/C	8	Dec-07	Mar-08
11	Tap line of Mamidipally-Chandrayanagutta to Hyderabad Airport	D/C	1	Apr-07	
12	245 kV XLPE UG cable Asifnagar-Karwan		3	Apr-07	
		Total	664		

KARNATAKA (KPTCL) :

1	Chikkodi-Kudachi	D/C	72	Sep-06	Jul-07
2	Neelamangala-DB Pura	D/C	33	Dec-06	Jul-07
3	Sharavati Generating Station-Dugadimane	M/C	26	Dec-06	Jul-07
4	LILO of Sharawati- Hubli at Sirsi Sw. Stn.	D/C	13	Jun-06	Jul-07
5	LILO of Hoody-Kolar at Hoskote	D/C	32	Sep-07	
6	LILO of Harohalli- T K Halli at Kanakapura	D/C	6	Dec-07	
7	Hiriyur 400kV S/S- Gowribidanur	D/C	121	Mar-08	
8	RTPS - Raichur	D/C	20	Dec-07	
9	Bastipura - Kadakola	D/C	54	Mar-08	
		Total	377		

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised

KERALA (KSEB) :

1	LILO of Kozhikode-Idukki at Malaparamba	D/C	2	Dec-06	Jul-07
2	Tap line to Vadakara S/S	D/C	2	Mar-08	
3	LILO of New Pallom- Mavelikkara at Punnapra	D/C	10	Mar-08	
4	LILO both ckts of Kalamassery-Brahmapuram at Pallikkara (Kochi East)	M/C	20	Dec-07	
5	Areacode(PGCIL)400kV S/S- Areacode S/S	M/C	1	Dec-07	
Total			35		

TAMILNADU (TNEB) :

1	S.P.Koil-Tharamani (Perambakkam-Tharamani portion)	S/C	45	Jun-06	Jul-07
2	LILO of Korattur-Koyambedu at Alamathy	D/C	34	Jun-06	Sep-07
3	LILO of Neyveli TS-II-Neyveli Zero Unit at Cuddalore	D/C	28	Jun-06	Sep-07
4	Sriperumbudur -Korattur (Changing of conductor)	S/C	20	Sep-06	Dec-07
5	LILo of S P Koil-Tharamani at Siruseri	D/C	20	Jun-06	Apr-07
6	Alamathy S/S - Manali	D/C	50	Jun-07	Jul-07
7	LILO of Pugalur-Checkanoorani at Renganathapuram	D/C	24	Jun-07	Jul-07
8	Myvadi Sw.Stn.-Ponnapuram	D/C	38	Dec-07	
9	Alamathy S/S - Avadi (cable)		35	Sep-07	
10	Common point - Myvadi S/S	S/C on D/C	17	Mar-08	
11	Valuthur - Paramakudi	S/C on D/C	50	Dec-07	
Total			361		
Total 220 kV SR			1437		

EASTERN REGION (ER) :

BIHAR (BSEB) :

1	Begusarai-Purnea	D/C	385	Sep-03	Jul-07
2	Muzzafarpur-Begusarai	D/C	256	Dec-03	Jul-07
3	Patna-Sipara	D/C	10	Jun-07	Jul-07
Total			651		

ORISSA (GRIDCO) :

1	Theruvai -Narendrapur-Chandaka	D/C	750	Jun-03	Jul-07
2	Budhipadar-Bolangir	D/C	346	Dec-02	Jul-07
3	Mendhasal-Bidanasi (Cuttack)	D/C	66	Sep-03	Jul-07
4	IbThermal-Budhipadar(2nd D/C)	D/C	52	Apr-07	Jul-07
5	LILo of Bhanjnagar-Chandaka at Mendhasal	D/C	12	Apr-01	Jul-07
6	Duburi-Paradeep	D/C	233	Jun-03	Jul-07
7	Kailash Chandrapur - Padmanavpur	D/C	68	Jun-06	Jul-07
8	Padmanavpur - Balasore	D/C	44	Jun-07	Jul-07
Total			1571		

WEST BENGAL (WBSEB) :

1	LILo of Farakka STPS-Durgapur circuit -I at Asansol	D/C	80	Sep-06	Jul-07
2	LILo of one Circuit of Kasba Jeerat-Lakshmikantapur D/C at Subhashgram	D/C	1	Mar-07	Jul-07
3	LILo of Farakka STPS-Arambagh at Bishnupur	D/C	4	Mar-07	Mar-08

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised
4	Sagardighi-Gokarna	D/C	121	Mar-07	
5	Teesta LD III-New Jalpaiguri	S/C	50	Mar-07	Mar-08
6	Teesta LD IV-New Jalpaiguri	D/C	120	Mar-07	Mar-08
7	Teesta LD III-Teesta LD IV	S/C	10	Mar-07	Mar-08
8	Santaldih TPS-Bishnupur	S/C	140	Mar-07	Jun-07
9	LILO of Santaldih-Arambagh at Bisnupur	D/C	8	Mar-07	Jun-07
		Total	534		
		Total 220 kV ER	2756		
NORTH-EASTERN REGION (NER) :					
ASSAM (ASEB) :					
1	Kathalguri-Tinsukia (2nd Circuit)	S/C	50	Oct-05	Mar-08
2	BTPS-Agia-Sarusajai (2nd Circuit)	S/C	396	Oct-05	Mar-08
		Total	446		
		Total 220 kV NER	446		
		Total 220 kV SS	10672		
		Total 220 kV CS&SS	11141		

TABLE-5.4

SUB STATIONS PROGRAMME FOR 07-08

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised
765 kV CENTRAL SECTOR (CS):						
POWERGRID (PGCIL) :						
1	Seoni Sub station (7x (500-333))	765/400	7x500	669	Feb-07	Jul-07
2	Seoni Sub St Extn. (3x500)	765/400	3x500	1500	Aug-07	
Total 765 kV CS				2169		
400 kV CENTRAL SECTOR (CS):						
POWERGRID (PGCIL) :						
1	Muzaffarpur (ICT-II)	400/220	1x315	315	Apr-07	Jul-07
2	Delhi (GIS)	400/220	2x315	630	May-07	Jul-07
3	Wagoora (3rd) (3x105)	400/220	3x105	315	Dec-06	Jul-07
4	Seoni	400/220	2x315	630	Feb-07	Jul-07
5	Raigarh (New)	400/220	2x315	630	Feb-07	Jul-07
6	Ranchi	400/220	2x315	630	Apr-07	Jul-07
7	Ludhiana (New)	400/220	2x315	630	Mar-07	Mar-08
8	Fatehabad (New)	400/220	2x315	630	Mar-07	Mar-08
9	Kota	400/220	2x315	630	Mar-08	
10	Kankroli	400/220	3x315	945	Mar-08	
11	Gwalior (New)	400/220	2x315	630	Mar-07	Jul-07
12	Bhatapara (New)	400/220	2x315	630	Aug-07	Aug-07
13	Itarsi Extn.	400/220	1x315	315	Nov-07	
14	Kadapah Extn.	400/220	1x315	315	Jun-07	Jul-07
15	Gooty Extn.	400/220	1x315	315	Jun-07	Jul-07
16	Munerabad Extn.	400/220	1x315	315	Jun-07	Sep-07
17	Kolar Extn.	400/220	3x167	501	Jun-07	Jul-07
18	Gazuwaka Extn.	400/220	1x315	315	Jun-07	Sep-07
19	Khammam Extn.	400/220	1x315	315	Jun-07	Sep-07
20	Melakottaiyur	400/220	2x315	630	Dec-07	
21	Kozhikode	400/220	2x315	630	Dec-07	
22	Hiriyur Extn.	400/220	1x315	315	Dec-07	
23	Pugalur	400/220	2x315	630	Dec-07	
24	Warrangal	400/220	2x315	630	Dec-07	
25	Arasur	400/220	2x315	630	Dec-07	
26	Pondicherry	400/220	2x315	630	Dec-07	
27	Tirunelveli	400/220	2x315	630	May-07	
28	Udumalpet Extn.	400/220	1x315	315	Dec-07	
29	Vijayawada Extn.	400/220	1x315	315	Dec-07	
30	Baripada Extn.	400/220	1x315	315	May-08	Mar-08
31	Rajgarh (New)	400/220	2x315	630	Dec-07	
32	Amritsar (Aug)	400/220	1x315	315	Mar-08	
33	Moga (Aug)	400/220	1x250	250	Mar-08	
34	Patna 2nd ICT	400/220	1x315	315	May-07	Jul-07
35	Bareilly Sw. Stn. Extn.	400			Jul-07	Jul-07
Total 400 kV CS				16816		

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised

400 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

HIMACHAL PRADESH (HPSEB) :

1	Kunihar (1st)	400/132	1x315	315	Jul-06	Jul-07
2	Kunihar (2nd)	400/132	1x315	315	Jul-06	Jul-07

Total 630

RAJASTHAN (RVPN)

1	Kankroli S/S (2x315)	400/220	2x315	630	Mar-08	
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Total 630

UTTAR PRADESH (UPPCL) :

1	Sarnath Extn.2x(160-100)	400/220	120	120	Mar-08	
2	Bagpat	400/220	3x315	945	Mar-08	

Total 1065

Total 400 kV NR 2325

WESTERN REGION (WR) :

CHHATTISGARH (CSEB) :

1	Bodhghat	400/220	1x315	315	Apr-07	Apr-08
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Total 315

GUJARAT (GETCO) :

1	Rajkot(Hadala)	400/220	1x315	315	Mar-08	
2	Ranchodpura(Vadavi)(2nd)	400/220	1x315	315	Mar-08	

Total 630

Total 400 kV WR 945

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Dichpally	400/220	2x315	630	Mar-07	Sep-07
2	Gajwel	400/220	2x315	630	Dec-07	

Total 1260

KARNATAKA (KPTCL) :

1	Talaguppa (3rd)	400/220	1x315	315	Sep-07	Dec-07
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Total 315

TAMILNADU (TNEB) :

1	Alamathy	400/230	2x315	630	Dec-06	Sep-07
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Total 630

Total 400 kV SR 2205

EASTERN REGION (ER) :

JHARKHAND (JSEB) :

1	Hatia (Ranchi)	400/220	2x295	590	Mar-08	
2	Chandil	400/220	1x295	295	Mar-08	
3	Hatia	400/220	2x150	300	Mar-08	

Total 1185

WEST BENGAL (WBSEB) :

1	Durgapur	400/220	7x105	735	Mar-07	Jul-07
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Total 735

Total 400 kV ER 1920

Total 400 kV SS 7395

Total 400 kV CS&SS 24211

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

1	Pithoragarh	220/132	6x33.3	200	Mar-07	Mar-08
2	Sitarganj	220/132	6x100	600	Mar-07	Sep-07
3	Raebareilly	220/132	200	200	May-07	Jul-07
Total				1000		

DAMODER VALLEY CORPORATION (DVC) :

1	Giridih	220/132	2x150	300	Mar-08	
2	Gola	220/132	2x50	100	Mar-08	
Total				400		

Total 220 kV CS 1400

220 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

CHANDIGARH (CHND) :

1	Manimajra (Chandigarh)	220/66	1x100	100	Apr-07	Jul-07
Total				100		

DELHI (DTL) :

1	Masjid-Moth (Sirifort)	220/33/11	1x100	100	Mar-06	Jul-07
2	Shalimar Bagh (3rd)	220/33/11	1x100	100	Mar-06	Mar-08
3	Bawana DSIDC	220/33/11	2x100	200	Apr-06	Jul-07
4	Gopalpur (4th)	220/33	1x100	100	Mar-07	Mar-08
5	Vasant Kunj (3rd)	220/33	1x100	100	Mar-07	Jun-07
6	GT S/S (Aug)	220/33	2x160	320	Mar-07	Dec-07
7	Bawana DSIDC Extn.	220/33	1x100	100	Dec-07	
8	Aug. at GT/IP Extn.2x(160-100)	220/33	120	120	Dec-07	
9	SOW (1x100 MVA-4 th ICT)	220/66	1x100	100	Mar-08	
10	Masjid Moth Extn.	220/33	1x100	100	Sep-07	
11	Electric Lane (2x160 MVA)	220/33	2x160	320	Mar-08	
12	AIIMS (2x160 MVA)	220/33	2x160	320	Mar-08	
Total				1980		

HIMACHAL PRADESH (HPSEB) :

1	Nalagarh	220/66	2x100	200	Mar-07	Mar-08
2	Pong(Aug) (40-20)	220/66	1x20	20	Mar-07	Jul-07
3	Bokhtoo S/S , 1x25 MVA	220/66	1x25	25	Mar-08	
4	Jassure S/S, 1x25 MVA	220/33	1x25	25	Mar-08	
5	Baddi(Addl.) , 1x100 MVA	220/66	1x100	100	Mar-08	
Total				370		

HARYANA (HVPN) :

1	Rania (2nd)	220/132	1x100	100	Jun-05	Jul-07
2	Salempur	220/66	2x100	200	Jun-06	Jul-07
3	IMT Manesar (2nd)	220/66	1x100	100	Mar-06	Jul-07
4	Daultabad	220/66	2x100	200	Mar-06	Jun-07
5	IMT Manesar(Aug.)	220/66	1x100	100	Mar-07	Mar-08
6	Nilokheri S/S, (2x100 MVA)	220/132	2x100	200	Mar-08	
7	Bhuna, (2x 100 MVA)	220/132	2x100	200	Dec-07	
Total				1100		

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised

PUNJAB (PSEB) :

1	Abohor (New) (1st)	220/132	1x100	100	Mar-06	Jul-07
2	Landran (New) (1st)	220/66	1x100	100	Mar-06	Jul-07
3	Kartarpur (Aug) (2nd)	220/66	1x100	100	Mar-06	Jul-07
4	Lalton Kalan (Aug) (3rd)	220/66	1x100	100	Mar-06	Jul-07
5	Pakhawal (new)	220/66	1x100	100	Mar-06	Jun-07
6	Dhuri (Aug) (2nd)	220/66	1x100	100	Mar-06	Dec-07
7	Ghobaya (Aug) (1x100-1x50)	220/66	1x50	50	Mar-06	Mar-08
8	Amloh Rd Gobindgarh	220/66	1x100	100	Mar-07	Sep-07
9	Ferozepur Road Ludhiana	220/66	1x100	100	Mar-07	Oct-07
10	Kharar	220/66	1x100	100	Mar-07	Dec-07
11	Sultanpur Lodhi	220/66	2x50	100	Mar-07	Mar-08
12	GHTP (1x100-1x50)	220/66	2x50	100	Mar-07	Sep-07
13	Nabha S/S , 1x100MVA	220/66	1x100	100	Aug-07	
14	Kangar S/S, 1x100 MVA	220/66	1x100	100	Jun-07	
Total				1350		

RAJASTHAN (RVPN) :

1	Khinvsar S/S 1X100 MVA	220/132	1x100	100	Mar-08	
Total				100		

UTTAR PRADESH (UPPCL) :

1	Nanauta (160+100)	220/132	260	260	Mar-08	
2	Sambhal, Muradabad	220/132	2x100	200	Dec-07	
3	Gajraula	220/132	2x100	200	Mar-08	
4	Loni	220/132	2x100	200	Dec-07	
5	Dadri	220/132	2x100	200	Mar-08	
6	Sikandrabad	220/132	2x100	200	Dec-07	
7	Muzaffarnagar (160+100)	220/132	260	260	Mar-08	
8	Jhansi	220/132	2x100	200	Dec-07	
9	Dohna, Bareilly	220/132	2x100	200	Mar-08	
10	Sohawal	220/132	2x100	200	Mar-08	
11	Atrauli Extn. 2	220/132	1x100	100	Mar-08	
12	Bharthana	220/132	2x100	200	Dec-07	
13	Etah	220/132	2x100	200	Mar-08	
14	Gajokhar	220/132	2x100	200	Mar-08	
15	Rewa Road Aug. (160-100)	220/132	1x100	100	Mar-08	
16	Azamgarh Aug.2x(160-100)	220/132	120	120	Mar-08	
17	Basti Aug. (160-100)	220/132	60	60	Mar-08	
18	Rampur	220/132	2x100	200	Mar-08	
19	Nehtaur Aug. (160-100)	220/132	60	60	Mar-08	
20	Muradnagar Aug. (160-100)	220/132	60	60	Mar-08	
21	Saharanpur Aug. (160-100)	220/132	60	60	Mar-08	
22	Gokul Aug. (160-100)	220/132	60	60	Mar-08	
23	Sultanpur Aug. (160-100)	220/132	60	60	Mar-08	
24	Shahjahanpur 2x(160-100)	220/132	120	120	Mar-08	
25	C.B. Ganj 2x(160-100)	220/132	120	120	Mar-08	
Total				3840		

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised
UTTARAKHAND (UPCL) :						
1	Dehradun (1st)	220/132	1x100	100	Jun-06	Jul-07
2	Dehradun (2nd)	220/132	1x100	100	Jun-06	Jul-07
3	Almora	220/132	4x33.3	133	Dec-06	Dec-07
4	Dehradun (Selakui)	220/132	2x100	200	Aug-06	Jul-07
Total				533		
JAMMU & KASHMIR (J&K):						
1	Zainkote (Aug)	220/132	3x50	150	Mar-08	
Total				150		
Total 220 kV NR				9523		
WESTERN REGION (WR) :						
CHHATTISGARH (CSEB) :						
1	Mandirhasod	220/132	1x160	160	Apr-07	Mar-08
2	Bhatapara(Suhela)	220/132	1x160	160	Apr-07	Mar-08
3	Vishrampur	220/132	1x160	160	Apr-07	Mar-08
4	Rajnandgaon	220/132	1x160	160	Mar-08	
Total				640		
GUJARAT (GETCO) :						
1	Puna	220/66	2X160	320	Mar-08	
2	Bhatar	220/66	2X160	320	Mar-08	
3	Ved	220/66	2X160	320	Mar-08	
4	Lakhani	220/66	2x100	200	Mar-07	Jul-07
5	Versana	220/66	1x100	100	Mar-08	
6	Kosamba	220/66	1x100	100	Mar-08	
7	Kukma	220/66	1x100	100	Mar-08	
Total				1460		
GOA :						
1	Tivim (2nd)	220/110	1x100	100	Mar-08	
2	Xeldem (Aug./Additional)	220/33	1x50	50	Mar-08	
Total				150		
MADHYA PRADESH (MPPTCL) :						
1	Mansa (Additional)	220/132	1x160	160	Mar-08	
2	Dhuri (Additional)	220/132	1x160	160	Mar-08	
3	Sidhi(New)	220/132	1x160	160	Mar-08	
4	Sidhi(Additional)	220/132	1x160	160	Mar-08	
5	Sabalgarh	220/132	1x160	160	Mar-08	
6	Chhatarpur	220/132	1x160	160	Mar-08	
7	Mandideep	220/132	1x160	160	Mar-08	
8	Indore(E)	220/33	1x100	100	Mar-08	
9	Chhindwara	220/132	1x160	160	Mar-08	
10	Astha	220/132	1x160	160	Mar-08	
Total				1540		

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised

MAHARASHTRA (MSEB) :

1	Urse	220/33	2x25	50	Mar-08	
2	Amalner	220/132	2x100	200	Mar-08	
3	Temburni	220/33	1x25	25	Mar-08	
4	Umred(2nd)	220/33	1x25	25	Mar-08	
5	Savangi(2nd)	220/33	100	100	Mar-08	
6	Talangde	220/33	1x50	50	Mar-08	
7	Hinjewadi	220/22	2x50	100	Mar-08	
8	Magarpatta	220/22	2x50	100	Mar-08	
9	Wather	220/132	2x100	200	Mar-08	
10	Wather	220/33	2x50	100	Mar-08	
11	Chakan	220/132	2x200	400	Mar-08	
12	Chakan	220/33	2x50	100	Mar-08	
Total				1450		
Total 220 kV WR				5240		

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Tekkali	220/132	1x100	100	Mar-07	Dec-07
2	Kamavarepukota	220/132	1x100	100	Mar-07	Jul-07
3	Kondamallepalli	220/132	1x100	100	Sep-07	
4	Shadnagar	220/132	1x100	100	Mar-08	
5	Brandix	220/132	2x100	200	Mar-08	
Total				600		

KARNATAKA (KPTCL) :

1	Puttur	220/110	2x100	200	Jun-06	Jul-07
2	HAL	220/66	2x100	200	Dec-07	
3	Sirsi	220/66	1x50	50	Jun-07	Jul-07
4	Shahapur	220/110	2x100	200	Sep-06	Dec-07
5	Yachanahalli	220/66	2x100	200	Dec-06	Dec-07
Total				850		

KERALA (KSEB) :

1	Malapparamba	220/110	2x100	200	Dec-06	Sep-07
2	Punnappa	220/110	2x100	200	Jun-07	Mar-08
Total				400		

TAMILNADU (TNEB) :

1	Siruseri	230/110	2x100	200	Jun-07	Jul-07
2	Ponnapuram	230/110	2x100	200	Dec-07	
3	Valuthur	230/110	3x100	300	Mar-08	
4	Renganathapuram	230/110	2x50	100	Jun-07	Jul-07
Total				800		
Total 220 kV SR				2650		

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised

EASTERN REGION (ER) :

BIHAR (BSEB) :

1	Begusarai	220/132	2x100	200	Mar-08	
2	Siwan (New) (Gopalganj)	220/132	2x100	200	Mar-08	
3	Sipara	220/132	2x100	200	Mar-08	
4	Hazipur	220/132	2x100	200	Mar-08	
5	Biharshariff Extn.	220/132	1x150	150	Mar-08	
6	Pusauli	220/132	2x150	300	Mar-08	
7	Dehri	220/132	1x100	100	Mar-08	
8	Khagaul	220/132	1x100	100	Mar-08	

Total 1450

ORISSA (GRIDCO) :

1	Burla	220/132	2x100	200	Dec-05	Jun-07
2	Bolangir	220/132	2x100	200	Dec-05	Jun-07
3	Paradeep (1st)	220/132	1x100	100	Dec-04	Jun-07
4	Paradeep (2nd)	220/133	1x100	100	Mar-05	Dec-07
5	Tarkera (4th)	220/132	1x100	100	Mar-08	

Total 700

WEST BENGAL (WBSEB) :

1	Krishna Nagar	220/132	2x160	320	Jun-05	Mar-08
2	Asansol	220/132	1x160	160	Dec-06	Mar-08
3	Singur	220/132	2x160	320	Mar-08	

Total 800

Total 220 kV ER 2950

NORTH-EASTERN REGION (NER) :

ASSAM (ASEB) :

1	Agia	220/132	1x50	50	Dec-04	Mar-08
2	Agia	220/132	1x25	25	Dec-04	Mar-08
3	Balipara (Tezpur)	220/132	1x50	50	Dec-05	Mar-08

Total 125

ARUNACHAL PRADESH (APSEB) :

1	Deomali	220/132	4x11.1	44	Dec-04	Jul-07
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Total 44

Total 220 kV NER 169

Total 220 kV SS 20533

Total 220 kV CS&SS 21932

132 kV STATE SECTOR :

ARUNACHAL PRADESH (APSEB) :

1	Namsai	132/33	1x10	10	Dec-05	Jul-07
2	Itanagar	132/33	1x20	20	Jun-06	Jul-07
3	Bhalukong	132/33	1x10	10	Jun-06	Jul-07
4	Passi Ghat	132/33	1x10	10	Jun-06	Jul-07
5	Changlang	132/33	1x10	10	Jun-06	Jul-07
6	Khonsa	132/33	1x10	10	Jun-06	Jul-07
7	Tenga	132/33	1x10	10	Jun-06	Jul-07

Total 80

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised

ASSAM (ASEB) :

1	Dhemaji	132/33	1x16	16	Oct-05	Jul-07
Total				16		

MEGHALAYA

1	Lumshung 2x5	132/33	2x5	10	Jun-06	Jul-07
2	Nangalbibra (Aug.)	132/33	1x12.5	25	Jun-06	Jul-07
3	Umiam	132/33	2x20	40	Mar-07	Jul-07
Total				75		

Total 132 kV NER 171

TABLE-5.5

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised

TRANSMISSION LINES PROGRAMME FOR 08-09

765 kV CENTRAL SECTOR :

POWERGRID (PGCIL) :

1	Seoni - Wardha (operated at 400kV) Line1	S/C	269	Jun-08	Jun-08
2	LILO of Tehri-Meerut at Tehri Pooling point (op. at 400 kV)	D/C	36	Jun-08	
3	Agra - Gwalior - II (operated at 400 kV)	S/C	130	Jan-09	
Total 765 kV CS			435		

400 kV CENTRAL SECTOR :

POWERGRID (PGCIL) :

1	Koteswar -Tehri Pooling Point	D/C	16	Jun-08	
2	Koldam - Nalagarh (Quad)	D/C	90	Sep-08	Oct-08
3	Koldam - Ludhiana (JVPG)	D/C	306	Sep-08	
4	Parbati-II - Koldam line -I (Quad)	S/C	61	Dec-08	
5	Parbati-II - Koldam line -II (Quad)	S/C	68	Dec-08	
6	Wardha - Akola	D/C	368	Jun-08	Jun-08
7	Akola - Aurangabad	D/C	530	Jun-08	Jun-08
8	Tirunelveli - Edamon (KSEB)	M/C	322	Nov-08	
9	Edamon - Muvattupuzha (PG) (Quad)	D/C	290	Nov-08	
10	Muvattupuzha - North Trichur (Quad)	D/C	180	Nov-08	
11	Zerda -Kankroli	D/C	468	Jan-09	
12	Gandhar-Kawas	D/C	190	Apr-08	
13	Gandhar-Rajkot	D/C	600	Apr-08	
14	LILO Bina-Nagda at Shujalpur	2xD/C	60	Apr-08	
Total 400 kV CS			3549		

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

A. International Lines

1	Kabul-Pul-e-Khumri (Afganistan)	S/C	202	Oct-08	
Total			202		

B. National Lines

1	Vapi (PG) - Kharadpada (DNH)	D/C	36	Aug-08	
2	Vapi (PG) - Magarwada (DD) & 7 Km Multi-ckt Portion	D/C	50	Aug-08	
Total			86		

DAMODER VALLEY CORPORATION (DVC) :

1	Mejia-Gola - Ramgarh	D/C	406	Dec-05	Dec-08
Total			406		
Total 220 kV CS			694		

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised

TRANSMISSION LINES PROGRAMME FOR 09-10

± 500 kV HVDC Line :

POWERGRID (PGCIL) :

1	Balia-Bhiwadi HVDC Bipole (2500 MW)	Bipole	1606	Sep-07	Sep-09
Total HVDC			1606		

765 kV CENTRAL SECTOR :

POWERGRID (PGCIL) :

1	Seoni-Bina (operated at 400kV)	S/C	293	Sep-09	
2	Seoni - Wardha (operated at 400kV) Line2	S/C	268	Jul-10	
Total 765 kV			561		

400 kV CENTRAL SECTOR :

POWERGRID (PGCIL) :

1	Barh (PG) - Balia (PG) (Quad)	D/C	470	Sep-09	
2	LILO of Rishikesh - Muzaffarnagar at Roorkee	D/C	3	Mar-09	May-09
3	LILO of one ckt of Madurai (PG) - Trichy (PG) at Karaikudi	D/C	100	Jul-09	
4	LILO of one ckt of Talaguppa -Neelamangla at Hassan	D/C	156	Jul-09	
5	Ranchi - Rourkela	D/C	340	Jun-09	
6	Rourkela - Raigarh	D/C	440	Jun-09	
7	Raigarh - Raipur	D/C	450	Jun-09	
8	Bhiwadi -Agra	D/C	408	Jun-09	
9	Bhiwadi-Maga	D/C	702	Jun-09	
10	LILO S/C Hissar - Jaipur at Bhiwadi	D/C	156	Jun-09	
11	LILO Parbati-II - Koldam/Nalagarh at Parbati Pooling Point (Quad)	D/C	20	Jan-10	
12	LILO one circuit Parbati-II - Parbati Pooling Point line at Parbati-III HEP(Quad)	D/C	7	Jan-10	
13	Parbati Pooling Point - Amritsar (ACSR Moose)	D/C	516	Jan-10	
14	Kota-Merta	D/C	496	Apr-09	
15	Kankroli-Jodhpur	S/C	171	Oct-09	
16	LILO one ckt Kankroli-Zerda at Bhinmal	D/C	68	Nov-09	
17	Durgapur-Jamshedpur	D/C	362	Oct-09	
18	Jamshedpur-Baripada	D/C	270	Oct-09	
19	Baripada-Chandaka	D/C	310	Oct-09	
20	LILO Ballabgarh-Bhiwadi at Gurgaon	D/C	54	Jul-09	
Total 400 kV CS			5499		

Sl. No.	Name of the transmission line	No. of Circuits	Total length (CKM)	Target	
				Original	Revised

TRANSMISSION LINES PROGRAMME FOR 10-11

± 800 kV HVDC CENTRAL SECTOR:

POWERGRID (PGCIL) :

1	Biswanath-Agra HVDC (3000 MW)	Bipole	3600	Mar-11
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TOTAL ± 800 kV HVDC CS 3600

765 kV CENTRAL SECTOR :

POWERGRID (PGCIL) :

1	Sasaram-Fatehpur	S/C	400	Mar-11
2	Fatehpur-Agra	S/C	330	Mar-11
3	SipatPP-Seoni Line 3	S/C	340	Mar-11
4	SipatPP-Sipat	S/C	30	Mar-11
5	Bina-Gwalior Line 2	S/C	250	Mar-11
6	Ranchi-SipatPP	S/C	350	Mar-11

TOTAL 765 kV CS

400 kV CENTRAL SECTOR :

POWERGRID (PGCIL) :

1	WR Strengthening Scheme-II		6807	Jul-10
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Total 400 kV CS 6807

TRANSMISSION LINES PROGRAMME FOR 11-12

765 kV CENTRAL SECTOR :

POWERGRID (PGCIL) :

1	Gaya-Sasaram	S/C	180	Mar-12
2	Gaya-Ballia	S/C	250	Mar-12
3	Ballia-Lucknow	S/C	250	Mar-12
4	Lucknow-Bareilly	S/C	250	Mar-12
5	Bareilly-Meerut	S/C	200	Mar-12
6	Agra-Mundka	S/C	250	Mar-12
7	Agra-Meerut	S/C	250	Mar-12
8	Mundka-Meerut	S/C	100	Mar-12
9	Mundka-Moga	S/C	350	Mar-12

TOTAL 765 kV CS 2080

400 kV CENTRAL SECTOR :

POWERGRID (PGCIL) :

1	Uri-I - Uri-II	S/C	14	Apr-11
2	Uri-II - Wagoora	S/C	108	Apr-11

Total 400 kV CS 122

TABLE-5.6

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised

SUB STATIONS PROGRAMME FOR 08-09

± 500 kV HVDC Terminal :

CENTRAL SECTOR (CS):

POWERGRID (PGCIL) :

1	Talchar Aug.		500	500	Mar-09
2	Kolar Aug.		500	500	Mar-09

TOTAL (CS) HVDC 1000

400 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

1	Wardha	400/220	2x315	630	Jun-08
2	Damoh	400/220	2x315	630	Aug-08
3	Pune (New)	400/220	2x315	630	Apr-08
4	Pandharpur/Solapur (New)	400/220	2x315	630	Apr-08
5	Shujalpur	400/220	2x315	630	Apr-08
6	Muvattapuzha	400/220	2x315	630	Nov-08
7	Trivandrum Extn.	400/220	1x315	315	Nov-08

Total 400 kV CS 4095

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

A. International S/S

1	Chimtala (Afganistan)	220/110	1x160	160	May-08
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Total 220 kV CS 160

SUB STATIONS PROGRAMME FOR 09-10

± 500 kV HVDC Terminal :

CENTRAL SECTOR (CS):

POWERGRID (PGCIL) :

1	Ballia		2500	2500	Sep-09
2	Bhiwadi		2500	2500	Sep-09

Total HVDC 5000

400 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

1	Roorkee	400/220	2x315	630	May-09
2	Ludhiana (3rd ICT)	400/220	1x315	315	Mar-10
3	Wagoora (4th) (3x105)	400/220	3x105	315	Mar-10
4	Bhinmal	400/220	2x315	630	Nov-09
5	Hissar (3rd ICT)	400/220	1x315	315	Nov-09
6	Karaikudi	400/220	2x315	630	Jul-09
7	Hassan	400/220	2x315	630	Jul-09
8	Gurgaon (GIS)	400/220	2x315	630	Jul-09

Total 400 kV CS 4095

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity	MW/MVA	Target	
					Original	Revised

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

1	Kopili Extn.	220/132	160	160	Apr-09
2	Dimapur Extn.	220/132	160	160	Apr-09

Total 220 kV CS 320

SUB STATIONS PROGRAMME FOR 10-11

± 800 kV HVDC Terminal :

CENTRAL SECTOR (CS):

POWERGRID (PGCIL) :

1	Bishwanath		3000	3000	Mar-11
2	Agra		3000	3000	Mar-11

Total (CS)±800 kV HVDC 6000

± 500 kV HVDC Terminal :

CENTRAL SECTOR (CS):

POWERGRID (PGCIL) :

1	Talchar Aug.		500	500	Mar-09
2	Kolar Aug.		500	500	Mar-09

TOTAL (CS)± 500 kV HVDC 1000

765 kV CENTRAL SECTOR (CS):

POWERGRID (PGCIL) :

1	Unnao	765/400		2000	Mar-11
2	Agra	765/400		3000	Mar-11
3	Fatehpur	765/400		2000	Mar-11
4	Gwalior	765/400		2000	Mar-11
5	Bina	765/400		2000	Mar-11
6	Wardha	765/400		3000	Mar-11
7	SipatPP	765/400		2000	Mar-11
8	Sasaram	765/400		2000	Mar-11
9	Ranchi	765/400		3000	Mar-11

TOTAL 765 kV CS 21000

SUB STATIONS PROGRAMME FOR 11-12

765 kV CENTRAL SECTOR (CS):

POWERGRID (PGCIL) :

1	Meerut	765/400		4500	Mar-12
2	Gaya	765/400		3000	Mar-12
3	Ballia	765/400		3000	Mar-12
4	Lucknow	765/400		3000	Mar-12
5	Bareilly	765/400		3000	Mar-12
6	Tehri	765/400		3000	Mar-12
7	Mundka	765/400		3000	Mar-12
8	Moga	765/400		3000	Mar-12

TOTAL 765 kV CS 25500

CHAPTER – 6

GENERATION PROJECT WISE TRANSMISSION
SCHEMES OF 11TH PLAN

Generation Project wise transmission schemes of 11th plan are given at Annexure – III. Many of the schemes are under construction and remaining are either at tendering or at engineering stage.

Utility wise schemes are furnished in Annexure-III. For year 2007-08 mostly schemes incorporated are finalized by the concerned utilities and or approved by CEA.

For remaining years of 11th plan period the utilities who have not furnished the schemes in that case only CEA approved schemes have been taken.

Associated Transmission Schemes (ATS) for Generation Projects for XI Plan

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
YEAR 2007-08								
THERMAL-CENTRAL SECTOR								
1	Unchahar St.-III (1x210 MW) NTPC (UP) 09/06	POWERGRID	a Unchahar-Raebareilly S/C b LILO of Unchahar-Lucknow (Chinhat) D/C at Raebareilly c Raibareilly S/S (New) 2x100	220 220 220/132	43 2 200	May-08 May-08 May-08	Jul-07 Jul-07 Jul-07	Testing in progress Testing in progress Testing in progress
2	Vindhyachal TPP St.-III (2x500 MW) NTPC (MP) Unit 9-7/06 Unit 10-3/07	POWERGRID	a Vindhyachal - Satna D/C b Satna - Bina D/C c LILO of Satna-Bina(MP) at Bina(PG) d Satna S/S (Aug.) 1x315 e Raigarh S/S 2x315	400 400 400 400/220 400/220	516 545 2.4 315 630	Nov-06 May-07 Mar-07 Nov-06 Jul-07	Jul-07	Commissioned Testing in progress Commissioned Commissioned Supply/civil work/erector
3	Sipat STPP-II NTPC (MP) 2x500 MW Unit 4-5/07 Unit 5-11/07	POWERGRID	a Khandwa-Rajgarh D/C b Bina-Malanpur (Gwlr) S/C (at 400 kV) c LILO of Korba-Raipur at Bhatapara d Seoni-Wardha S/C Line1(at 400 kV) e Wardha-Akola D/C f Akola-Aurangabad D/C g Gwalior S/S 2x315 h Bhatapara S/S 2x315 i Seoni S/S Extn. 3x500 j Wardha S/S 2x315	400 765 400 765 400 400 400/220 400/220 765/400 400/220	440 235 5 269 368 530 630 630 1500 630	Dec-07 Mar-07 Aug-07 Jun-08 Jun-08 Jun-08 Aug-07 Aug-07 Aug-07 Jun-08		Commissioned ICT-I Commissioned 5/07 Civil/Erection works Work in progress. Engg. in progress
4	Sipat STPP-I 3x660 MW NTPC (MP) Unit 1-3/08 Unit 2-2/09 Unit 3-12/09	POWERGRID	a Sipat-Seoni 1st S/C b Sipat-Seoni 2nd S/C c Seoni-Khandwa D/C Quad AAAC d Nagda-Dehgam D/C e LILO of S.Sarovar-Nagda D/C at Rajgarh 2xD/C f LILO of Korba - Raipur at Sipat D/C g LILO of Bhilai-Satpura at Seoni D/C h Seoni S/S 7x500 i Seoni S/S 2x315 j Rajgarh S/S 2x315	765 765 400 400 400 400 400 765/400 400/220 400/220	351 354 703 664 18 10 4 3500 630 630	May-07 Sep-07 Feb-07 Feb-07 Feb-07 Apr-06 May-07 May-07 May-07 Sep-07	Jul-07 Aug-07 Oct-07 Dec-07	Testing in progress 6/07 Testing in progress 5/07 Erection/testing in progress Erection/testing in progress Civil works in progress.
5	Kahalgaon STPS-II Phase I & II NTPC(Jharkhand) (3x500 MW) Unit 5-3/07 Unit 6-9/07 Unit 7-11/07	POWERGRID	a Kahalgaon STPS-Patna D/C Quad b Patna-Balia D/C Quad c Biharshariff - Balia D/C Quad d Maithon-Ranchi D/C e Balia - Lucknow D/C f Balia - Mau D/C g Lucknow - Bareilly D/C	400 400 400 400 400 400 400	514 390 484 400 632 18 510	Mar-07 Mar-07 Jul-07 Jul-07 Mar-07 Mar-07 Apr-07	May-07 Jul-07	Commissioned Commissioned Commissioned Commissioned Commissioned Commissioned Testing in progress 6/07

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
			h Agra - Gwalior S/C (at 400 kV)	765	128	Mar-07		Commissioned
			i Ranchi - Sipat D/C	400	816	Jun-07	Oct-07	Forest clearance awaited
			j Patna S/S 2x315	400/220	630	Mar-07		ICT-I Commissioned
			k Ranchi S/S 2x315	400/220	630	Jul-07		Civil works in progress.
			j Bareilly Sw. Stn. Extn.	400		Jul-07	Jun-07	Erection/Testing
6	Neyveli TPS II Extn 2x250 MW 2008-09 U 1-11/08 U 2-3/09	POWERGRID	a Neyveli-Pugalur D/C	400	438	Dec-07	Dec-07	
			b Pugalur-Madurai D/C	400	246	Dec-07		
			c Udumalpet-Arasur D/C	400	132	Dec-07		
			d LILO of Neyveli-Sriperumbudur S/C at Pondicherry D/C	400	30	Dec-07		
			e LILO of Ramagundam-Khammam S/C at Warrangal D/C	400	36	Dec-07		
			f Pugalur S/S 2x315	400/230	630	Dec-07		Civil works under progress
			g Warangal S/S 2x315	400/220	630	Dec-07		Civil works under progress
			h Arasur S/S 2x315	400/230	630	Dec-07		Engg.
			i Puducherry S/S 2x315	400/230	630	Dec-07		Engg.
			j Neyveli TS-II Extn-Neyveli TS-II Existing 2xS/C	400		Dec-07		
7	Mejia TPS (2x250 MW) Unit 5-3/07 Unit 6-9/07	DVC	a Mejia-Ramgarh via Gola D/C	220	406	Dec-05	Dec-08	
			b Mejia-Barjora D/C	220	32	Dec-05		Commissioned
			c Gola S/S 2x50	220/33	100	Mar-08		
			d Barjora S/S 2x50	220/33	100	Jan-06		Commissioned
8	Chandrapura TPS Extn. 2x250 MW Unit 7-12/07 Unit 8-3/08	DVC	a LILO of Kalyaneshwari-CTPS D/C at Dhanbad	220	30	Jun-05	Jul-07	
			b Dhanbad - Giridih D/C	220	86	Jun-05	Jul-07	
			c Giridih-Koderma D/C	220	200	Dec-05	Jul-07	
			NUCLEAR					
9	Kaiga Unit III and IV 2x220MW Unit 3-3/07 Unit 4-03/08 Karnataka	POWERGRID	a Narendra-Davangere D/C	400	312	Sep-07		
			b Mysore-Kozhikode D/C	400	421	Dec-07		
			c LILO of Kolar-Sriperumbudur S/C at Melakottaiyur D/C	400	36	Dec-07		
			d Melakottaiyur S/S 2x315	400/230	630	Dec-07		Civil works in progress
			e Kozhikode S/S 2x315	400/220	630	Dec-07		Civil works in progress
			f Hiriyur S/S Extn. 1x315	400/220	315	Dec-07		Civil works in progress
10	RAPP Extn. RAPP 2X220MW U 5-09/07 U 6-03/08	POWERGRID	a RAPP-Kankroli D/C	400	396	Mar-08	Sep-07	Forest clearance awaited
			b RAPP-Kota S/C	400	51	Mar-08	Sep-07	Forest clearance awaited
			c Kota S/S 2x315	400/220	630	Mar-08	Sep-07	Supply/Civil works/Erection
			d Kankroli S/S 3x315	400/220	945	Mar-08	Sep-07	Supply/Civil works/Erection
			Supplementary regional schemes matching with RAPP 5&6					
			e Kota – Merta D/C line	400				
			f Kankroli – Jodhpur S/C	400				
11	Kudankulam 2x1000 MW Tamil Nadu 2007-08	POWERGRID	a Kudankulam-Tirunelveli D/C Quad 1st	400	144	May-07	Dec-07	
			b Kudankulam-Tirunelveli D/C Quad 2nd	400	160	Dec-07		
			c Tirunelveli-Udumalpet D/C	400	524	Dec-07		

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
			d Tirunelveli-Edamon M/C	400	161	Nov-08		
			e Edamon-Muvattupuzha D/C Quad	400	290	Nov-08		Award 9/06.
			f Muvattupuzha-North Trichur D/C Quad	400	180	Nov-08		Award 9/06.
			g LILO of Madurai-Trivandrum D/C at Tirunelveli 2 x D/C	400	220	May-07	Dec-07	
			h Tinneveli S/S (2x315)	400/220	630	May-07	Jul-07	Civil works under progress
			i Muvattupuzha S/S (2x315)	400/220	630	Nov-08		Award 8/06.
			j Trivendram 1x315	400/220		Nov-08		

YEAR 2007-08

THERMAL STATE SECTOR

1 PARICHA TPP EXTN. (2x210 MW) Unit 3-3/06 Unit 4-12/06	UPPCL	a	LILO of Paricha-Mainpuri Line at Orai	220	80	Oct-06		Commissioned
		b	Paricha-Orai D/C	220	207.4	Mar-07		Commissioned
		c	LILO of Panki - Mainpuri at Orai	220	10	Mar-07	Jul-07	
		d	Orai S/S 2x100	220/132	200	Sep-06		ICT 2 Commissioned
2 GIRAL LIGNITE 2X125 MW Unit 1-2/07 Unit 2-9/08	RVPN	a	Giral TPS-Barmer 1st S/C	220	32.23	Mar-06		Test Charged.
		b	Giral TPS-Barmer 2nd S/C	220	32.23	Mar-07	Jul-07	
		c	LILO of 1 ckt of Amarsagar-Barmer at Giral LTPS D/C	220	1	Mar-06		Commissioned
		d	Barmer-Dhorimanna S/C	220	72	Mar-07		Commissioned
		e	Dhorimanna-Bhinmal S/C	220	96	Jun-07	Jul-07	
		f	Giral TPS-Balotra S/C	220	100	Mar-09		
		g	Dhorimanna S/S	220/132	100	Mar-07		Commissioned
3 Dholpur GTPS Stage-I GT-2x104 MW, ST-122 MW GT 1-3/07 GT 2-6/07 ST-10/07	RVPN	a)	Dholpur GTPS-Heerapura S/C line	400	283	Jun-07	Jul-07	Forest clearance awaited
		b)	LILO of 1 ckt of Bharatpur-Dholpur line at Dholpur GTPS	220	1.3	Mar-07		Commissioned
		c)	Stringing of 2nd ckt of Bharatpur - Dholpur line and diverting the line to Dholpur GTPS (5 km D/C)	220	75	Feb-07		Completed
4 Mathania CCPP 140 MW 2007-08	RVPN		Evacuation At 132 kV level					
5 Barsingsar Lignite (NLC) 2x125 MW U 1-06/08 U 2-10/08 Extn.250 MW	RVPN	a)	Barsingsar TPS-Nagaur S/C	220	107	Jul-07		
		b)	Barsingsar -Khinvsar S/C	220	100	Mar-08		
		c)	Khinvsar-Bhopalgarh S/C	220	36	Mar-08		Completed
		d)	Barsingsar TPS-Phalodi S/C	220	150	Mar-09		
		e)	Khinvsar S/S (1x100)	220/132	100	Mar-09		Completed
6 Kota TPP (195MW) Unit 7-12/08	RVPN	a)	KTPS-Kankroli D/C (Opt. At 220 kV)	400	420	2005-06		Existing
		b)	LILO Chittorgarh-Debari at Kankroli(PG)	220	70	Mar-09		
		c)	LILO Bhilwara-Kankroli at Kankroli(PG)	220	2	Mar-08		
		d)	Kankroli (PG)-Kankroli	220	22	Sep-07		
		e)	Kankroli S/S (2x315)	400/220	630	Mar-08		

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
7	Yamuna Nagar TPS 2x300 MW 10/07, 01/08	HVPNL	a) YTPP-Ladwa b) YTPP-Yamunanagar c) YTPP-Abdullapur d) YTPP-Nilokheri e) Nilokheri-Karnal f) Ladwa-Nissing	220 220 220 220 220 220	120 40 50 140 21 100	Sep-07 Mar-07 Mar-08 Mar-08 Dec-07 Mar-07	Jul-07	Charged at 132 kV
8	Guru Hargobind TPS - II 2x250 MW Unit 3-7/07 Unit 4-11/07	PSEB	a) GHTPS-Kangar D/C b) GNDTP-Muktasar S/C on D/C c) GHTP - BajaKhana , D/C d) Kangar S/S (1x100)	220 220 220 220/66	52 53 29 100	Jun-07 May-07 Aug-04 Jun-07	Jul-07 Jul-07 Jul-07 Jul-07	Commissioned
9	Kutch Lignite TPS Exn. (1x75 MW) U-4 11/07	GETCO	No new transmission works proposed					
10	Sugen CCPP Block 1 (P) (Torrent Power Gen. Ltd.) Block 1(376 MW)-10/07 Block 2(376 MW)-11/07 Block 3(376 MW)-1/08	TPAEC (JV)	a) Akhakhhol-Puna D/C b) Akhakhhol-Bhatar D/C c) Akhakhhol-Ved D/C d) Akhakhhol-Kim (GETCO) D/C e) Puna S/S 2 x 160 f) Bhatar S/S 2 x 160 g) Ved S/S 2 x 160 h) LILO of Jhanor-Vapi S/C at TPGL i) TPGL-Pirana D/C line j) Pirana-Dehgam D/C line	220 220 220 220 220/66 220/66 220/66 400 400 400	72 134 52 8 320 320 320 28 220 108	Apr-07 Apr-07 Apr-07 Apr-07 Apr-07 Apr-07 Apr-07 Apr-07 Mar-08 Mar-08	Jul-07 Jul-07 Mar-08 Jul-07 Jul-07 Jul-07 Mar-08 Dec-08	Stringing completed Stringing completed Survey in progress
11	Paras TPS Extn. U 1-250 MW 5/07 U 2-250 MW 6/09	MSEB	a) LILO Akola- Chikhali line - 1 at Paras b) LILO Akola- Chikhali - 2 line at Paras	220 220	11.6 11.64	Jun-06 Mar-07		Commissioned Commissioned
12	Ratnagiri CCPP (Dabhol CCGT) St.-II (1444 MW) 1/05 2004-05 (Dabhol Power CO) Block-1:GT1-240MW, GT2-240MW,ST-242MW Block-2:GT1-240MW, GT2-240MW,ST-242MW Block 2-8/07 (Dabhol CCGT ST-I (740 MW)GT1-240MW+GT2-240MW+ST-260MW Existing)	MSEB	a) Dabhol-Koyna(New) Ckt.-I S/C b) Dabhol-Nagothane Ckt.-I S/C c) Nagothane - Padghe D/C d) Koyna(New) - Koyna(I,II,III) M/C e) Koyna(New) S/S 3x105 f) Nagothane S/S 3x105 g) Dabhol-Koyna(New) Ckt-II S/C h) Dabhol-Nagothane Ckt-II S/C i) Koyna (New) Aug. S/S 3x105 j) Nagothane (Aug).S/S 3x105 k) Koyna (New) - Koyna(I,II,III) IICkt.	400 400 400 220 400/220 400 400 400 400/220 400/220 220	48 135 232 11 315 315 48.26 134.4 315 315 11	Feb-06 May-06 Jan-08 Apr-03 Dec-03		Commissioned Commissioned Commissioned Commissioned Commissioned Commissioned Commissioned Commissioned Commissioned Commissioned Commissioned
13	Korba (West) TPP Extn. 2x250 MW 2007-09	CSEB	a) Korba - Khedarma (Bhilai) D/C	400	400	Mar-07	Mar-08	

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
14	Korba (East) TPP 2x250 MW Unit 1-3/07 Unit 2-8/07	CSEB	a Korba (East) - Bhatapara D/C	220	280	Mar-08	Dec-07	
15	O.P.Jindal TPP (P) (JPTS) 4x250 MW U 1-08/07 U 2-01/08, U 3-11/07 U 4-02/08	JPTS CSEB JPTS	a JTPS-Industrial Estate D/C b JTPS-Raigarh D/C c JTPS-Raipur D/C	220 220 400	40 108 508	Mar-07 Jun-07 Sep-07	Jul-07 Jul-07	Stringing completed
16	Amarkantak TPP Extn. U 5-210 MW 10/07 JOINT VENTURE (SS&CS)	MPSEB	a LILO of one ckt of Birsinghpur-Satna D/C at Amarkantak D/C b LILO of one ckt of Birsinghpur-Rewa D/C at Sidhi D/C c Amarkantak-Jabalpur D/C	220 220 220	88 118 470	Mar-07 Mar-07 Mar-07	Mar-08 Mar-08 Dec-08	Forest clearance awaited
17	Birsinghpur Extn.St-III (Sanjay Gandhi TPS Extn.) U 1-500 MW 6/07	MPSEB	a Birsinghpur -Katni -Damoh D/C charged at 220 kV b Satna-Katni D/C c Birsinghpur -Katni IICkt.Strg. d Katni (New) S/S e LILO of Bhopal - Itarsi D/C at Itarsi (PG) 2xD/C f Birsinghpur - Jabalpur D/C g LILO of Birsinghpur - Damoh D/C at Damoh (PG)	400 220 220 220/132 400 220 400	435 200 235 160 2 274 32	Nov-99 Feb-07 Sep-07 Jun-07	 Jul-07 Jul-07	Commissioned Commissioned Commissioned Commissioned Completed Commissioned
18	Rayalseema St.II U3 - 210 MW 1/07 U4 - 210 MW 08/07	APTRANSCO	a RTPP-Pulivendula D/C b RTPP-Anathapur, 2nd Ckt. c Pulivendula-Hindupur D/C	220 220 220	80 70 238	May-07 Feb-02 Dec-07	Dec-07	Commissioned
19	Ramagundam (BPL) TPS 2x260 MW (P) 2007 - 08 (Generation Project had been dropped and Tr. works are being taken up under System Strengthening scheme)	APTRANSCO	a Ramagundam-Ditchpally D/C b Ramagundam-Gajwel S/C c Gajwel-Hyderabad S/C d Gajwel S/S e Ditchpally S/S f LILO Ramagundam-Ghanapur at Gajwel g Ditchpally 400 kV/S-S-Ditchpally h Ditchpally 400 kV S/S-Nirmal S/C on D/C i Gajwel-Siddipet S/C on D/C j Gajwel-Minpur S/C on D/C k Ramgundam-Malayapally D/C l Gajwel-Kamareddy S/C on D/C m LILO Medchal-Minpur at Gajwel n Kamareddy S/S	400 400 400 400 400 400 220 220 220 220 220 220 220 220 220 220/132	170 170 60 630 630 25 20 70 45 80 10 90 40 200	Jun-07 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08 Mar-08	Sep-07	

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
20	Bellary Extn. 500 MW 07/07	KPTCL	a LILO of RTPS-Guttur at BTPS D/C b BTPS-Hirriyur D/C c LILO Lingapur-Alipur at BTPS	400 400 220	2 302 14	Mar-07 Mar-07 Dec-06	Jul-07 Jul-07	Commissioned
21	Raichur Unit-8 TPS 210 MW 2007 - 08	KPTCL	a RTPS-Gulbarga via Shahapur D/C b RTPS-Raichur S/C c Gulbarga S/S d Shahapura S/S	220 220 220/110 220/110	320 20 200 200	Jun-04 Dec-07 May-04 Dec-07		Commissioned Commissioned
22	Bellary TPP (P) Jindal Extn. Thoranagallu 2x250 MW 2007 - 08	KPTCL	a LILO of RTPS-Guttur at Thoranagallu D/C b Thoranagallu- Hirriyur D/C c LILO of Lingapura -Gooty line at Thoranagallu e LILO of Lingapura -JVSL at Thoranagallu D/C f Thoranagallu S/S	400 400 220 220 400/220	2 302 315	Mar-07 Mar-07 Mar-07 Mar-07		
23	Bakreshwar-TPS 2x210 MW U 4 -09/07 U 5-02/08	WBSEB	Existing 400/220 kV system is adequate					
24	Bakreshwar-TPS 210 MW U 6	WBSEB	Bakreshwar-Jagatballavpur S/C Jagatballavpur 2x315 MVA S/S Jagatballavpur-Domjur 220 kV D/C	400 400/220 220				
25	Sagardighi TPP WBPDCIL (2x300 MW) U 1-08/07 U 2-10/07	PGCIL PGCIL WBSEB WBSEB	a Sagardighi TPP - Subhasgram S/C (PGCIL) b Sagardighi-Purulia D/C PGCIL c Sagardighi-Gokarna D/C d LILO of Jeerut-Farakka D/C	400 400 220 400	245 60 100 20	Mar-07 Mar-07 Mar-07 Mar-07	Jul-07 Jul-07 Jul-07 Jul-07	
26	Durgapur TPS Extn. 300 MW U 7-07/07	WBSEB	Exisying system adequate					
27	Santaldih TPP Extn. Ph-I 250 MW U 1-09/07	WBSEB	a Santaldih - Bishnupur S/C b LILO of Santaldih-Durgapur (I Ckt) D/C c LILO of Santaldih-Arambagh D/C at Bishnupur	220 220 220	139 80 8	Sep-07 Sep-07 Sep-07		Held up due to Court Case
28	DPL TPS (500 MW)	WBSEB	a DPL-Durgapur 400 kV D/C	400				

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13

YEAR 2007-08

HYDRO - CENTRAL SECTOR

1	Tala HEP	POWERGRID	a	Tala-Siliguri line - 1 D/C	400	196	Sep-06		Commissioned
			b	Tala-Siliguri line - 2 D/C	400	234	Aug-06		Commissioned
			c	LILO of Bongaigaon-Malda at Siliguri	400	10	May-05		Commissioned.
			d	LILO of Bongaigaon-Malda at Purnea	400	116	May-06		Commissioned
			e	Gorakhpur (PG)-Gorakhpur (UP) D/C	400	92	Jul-06		Commissioned
			f	Lucknow(New)-Unnao D/C	400	148	Jul-06		Commissioned
			g	LILO of Dadri-Ballabgarh D/C at Delhi 2xD/C	400	60	May-07	Jul-07	
			h	Purnea S/S Extn	400/220	315	Sep-06		Commissioned
			i	Muzaffarpur S/S 2x315	400/220	630	Aug-06		ICT-I commissioned
			j	Gorakhpur S/S Extn.	400/220	315	Aug-06		Commissioned
		k	Lucknow(New) S/S	400/220	315	Jul-06		Commissioned	
		l	Delhi (Maharani Bagh) S/S 2x315	400/220	630	May-07	Jul-07	Work in progress	
		JV	a	Siliguri-Purnea D/C (Quad)	400	320	Aug-06		Commissioned
			b	Purnea-Muzaffarpur D/C (Quad)	400	478	Aug-06		Commissioned.
			c	Muzaffarpur-Gorakhpur D/C (Quad)	400	520	Aug-06		Commissioned.
			d	Gorakhpur-Lucknow(New) D/C	400	492	Jul-06		Commissioned.
			e	Bareilly-Mandaula D/C	400	474	Apr-06		Commissioned.
f	Muzaffarpur(PG)-Muzaffarpur(BSEB) D/C		220	48	Aug-06		Commissioned.		
2	Teesta St.V HEP 3x170 MW U1-1/8,U2&3-2/8 NHPC (Sikkim)	POWERGRID	a	Teesta St.V HEP - Siliguri D/C	400	228	May-08	Nov-07	
			b	Baripada S/S Extn.(Aug) 1x315	400/220	315	Jan-08	Nov-07	Supply/Erection in progress

YEAR 2007-08

HYDRO - STATE SECTOR

1	Uhl - III HEP 2x50 MW 2009-10	HPSEB	Evacuation at 132 kV level			Mar-10			
			1	Kashang - Bhaba D/C	220	76	Jul-07		
2	Kashang - I HEP 2x33 MW 2008 - 09	HPSEB	2	LILO Kashang-Bhaba at Bhoktoo	220	6	Jul-07		
			Shongtong Karcham (402 MW)			Shongtong Karcham-Karcham PP D/C Karcham PP-NR load centers	400		After generation
3	Baglihar-I HEP (JKPDC) 3x150 MW U 1-1/08 U 2-2/08, U 3-3/08	J&K	a	Kishenpur-Baglihar	400	136	May-07	Jul-07	Stringing completed
			b	LILO of one ckt of Wagoora - Kishenpur D/C at Baglihar	400	3	May-07	Jul-07	
4	Maneri Bhali-II HEP (UJVNL) (4x76 MW) 10/07, 11/07, 12/07, 01/08	UPCL	a)	Maneri II - Rishikesh S/C 3rd ckt	220	110	Dec-07		Forest clearance awaited
			b)	LILO of Maneri I-Rishikesh at Maneri II	220	4	Mar-07	Jul-07	Stringing completed
5	Bansagar Tons HEP Ph-IV Ph-IV-(2x10 MW) 8/06	MPSEB	a)	BansagarPh3 -Ph2(Rewa) D/C	132	124	Jan-04		Commissioned
			b)	Bansagar Ph 4 - Amarpatan S/C on D/C	132	68	May-07	Jul-07	

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
	Ph-II-(2x15 MW) *		c) LILO of Bansagar Ph3 -Rewa at Bansagar Ph 4 D/C	132	25.6	Jun-05		Commissioned
	B'sagar Ph-III(3x20 MW) *		d) Bansagar (Tons) -Rewa D/C	220	97	Aug-03		Commissioned
	B'sagar Ph-I(3x105 MW) *							
6	Omkareshwar HEP (8x65MW) NHDC&MPSEB U 1 to 4-07/07 U 5&6-08/07 U 7&8-09/07	MPSEB	a Omkareshwar -Sanawad D/C b LILO of Barwaha - Nepanagar (Khandwa) D/C at Omkareshwar 2xD/C	220 220	46 92	Apr-07 Apr-07	Jul-07 Jul-07	Stringing completed 3/07 Tender awarded
7	Priyadarshani-Jurala HEP 6x39 MW 07/07, 10/07,01/08 04/08,07/08,09/08	APTRANSCO	a Jurala HEP-Veltoor D/C	220	62	Mar-08	Jul-07	
8	Kuttiyadi Add.Extn. HEP 2x50 MW 2007 - 08	KSEB	Evacuation at 110 kV level.			Mar-08		
9	Balimela Extn. HEP (P) 2x75 MW 07/07, 09/07	GRIDCO	a Balimela-Jeypore D/C	220		Dec-07	Jul-07	
10	Purulia PSS (S) 4x225 MW U 4-06/07,U 3-07/07, U 2-09/07 U 1-11/07	WBSEB	a PPSS-Arambagh D/C b PPSS-Durgapur D/C (Bidhannagar)	400 400	418 370	Apr-07 Apr-07		Commissioned Commissioned ckt 1
11	Teesta Low Dam III (4x33 MW) NHPC (WB) 2008-09	WBSEB	a Teesta low dam III - Siliguri S/C	220	50	Apr-07	Jul-07	Approved in SCM on 25/8/2003 By NHPC for WBSEB
12	Teesta Low Dam IV 4x40 MW NHPC (WB) 2009-10	WBSEB	a Teesta L Dam IV - Siliguri D/C b Teesta L Dam III- Teesta L Dam IV S/C	220 220	120 10	Apr-07 Apr-07	Jul-07 Jul-07	Approved in SCM on 25/8/2003 By NHPC for WBSEB
13	Leshka Myntdu - I HEP 2x42 MW 2008-09	MeSEB	a Leshka Myntu-Khliehriat D/C	132	46	Dec-07		Bid evaluation in progres
14	Turial HEP (NEEPCO) 2x30 MW 2008-09	Deptt. of Power Mizoram	a Turial-Kolasib S/C	132	41	Aug-05		Commissioned
Year 2008-12								
1	Kawas CCPP (NTPC) 725 MW 3/07 575 MW 11th Plan	POWERGRID	Transmission scheme finalised.			Mar-12		Approved in SCM. on 23-12-2004 PIB awaited CCEA cleared on 18/8/06
2	Gandhar CCPP (NTPC) 725 MW 3/07 575 MW 11th Plan	POWERGRID	Transmission scheme finalised.			Mar-12		
3	Bhilai TPP (JV) 3x250 MW 10/07,02/08		BESCL-Raipur 400 kV D/C BESCL 400/220 kV 2x315 MVA S/S LILO of Khedamera-MSDS2 D/C at BESCL	400 400/220 220		Oct-07 Oct-07 Oct-07		

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
4	Kayamkulam CCPP - II 1950 MW 2009 - 11 (LNG)		LILO of Tirunelveli-Muvathapuzh (Quad) at Kayamkulam 2xD/C Kozhikode-Trissur D/C	400 400		Mar-11 Mar-11		
5	Ennore TPS (JV) NTPC and TN 2x500 MW 2009-10		Yet to be finalised.			Mar-10		
6	North Karampura TPS 3x660 MW 2009 - 12		North Karanpura-Gaya Quad D/C North Karanpura – Ranchi Quad D/C Sipat/Korba (PP) – Seoni S/C Lucknow – Bareilly S/C Bareilly – Meerut S/C Agra-Gurgaon(ITP)-Gurgaon(PG) quad Gurgaon GIS S/S 2x315	400 400 765 765 765 400 400/220		Apr-09 Apr-09 Apr-09 Apr-09 Apr-09 Apr-09 Apr-09		
7	Nabi Nagar TPP (JV) NTPC and Railways 4x250 MW 2007 - 09		Transmission scheme identified.					SCM to approve.
8	Farakka Stage - III 1x500 MW 2010 - 11		Existing System Adequate					
9	Barh STPS 3x660 MW 2008 - 11		a Balia-Bhiwadi HVDC Bipole 2500 MW b Seoni-Bina S/C (initially at 400 kV) c LILO of Kahalgaon-Patna D/C Quad at Barh d Barh(PGCIL)-Balia(PGCIL) D/C Quad e Balia and Bhiwadi HVDC Converter Str	+/- 500 765 400 400 +/- 500	1606 293 100 390	Sep-09 Sep-09 Sep-09 Sep-09 Sep-09		Awarded
10	Ib Valley STPS 5x660 MW 1st Unit 2011-12		Yet to be finalised.					
11	Koldam HEP 4x200 MW 2008 - 09		a Koldam-Nalagarh D/C Quad b Koldam-Ludhiana D/C (JV)	400 400	90 306	Sep-08 Sep-08		CCEA cleared on 7/9/05 Under Tendering
12	Gandhar-II GBPP (NTPC)	POWERGRID	a Gandhar(NTPC)-Kawas(NTPC) D/C b Gandhar(NTPC)-Rajkot(GEB) D/C c LILO of Bina(PGCIL)-Nagda (MPSEB) 2XD/C at Shujalpur d S/S at Shujalpur(PGCIL) e S/S at Rajkot(GEB)	400 400 400/220 400/220	190 600 60			
13	Lohari Nagpala HEP NTPC 4x150 MW 2010 - 11		a L.Nagpala-Tehri PP D/C b Meerut-Agra S/C c Agra S/S ICT-II	400 765 765/400	150	Mar-11 Mar-11 Mar-11		PIB awaited. Approved i SCM on 10-8-2004

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
14	Tapovan Vishnu Gad HEP NTPC 520 MW 2010 - 11		a Tapovan-Roorkee D/C	400		Mar-11		
15	Sewa HEP-II 3x40 MW 3/08 NHPC (J&K)	POWERGRID	a Sewa - Hira Nagar D/C b Sewa-Khatua D/C one ckt via Mahanpur	132 132	155 64	May-08 May-08		Award February, 06
16	Parbati-II HEP (NHPC) in HP 4x200 MW 1/11,3/11,5/11,7/11	JV	a Parbati-II - Koldam 1st S/C Quad b Parbati-II - Koldam 2nd S/C Quad	400 400	61 68	Dec-08 Dec-08		Under Tendering Under Tendering
17	Parbati-III HEP (NHPC) in HP 4x130 MW 11/10,12/10 1/11,2/11	POWERGRID	a LILO of Parbati II - Koldam/Nalagarh at Parbati Pooling Point Quad b LILO of Parbati II - Parbati Pooling Point at Parbati III HEP Quad c Parbati Pooling Point-Amritsar D/C	400 400 400	20 7 516	Jan-10 Jan-10 Jan-10		CCEA approval on 31/7/06
18	Chamera-III HEP (NHPC) in HP 3x77 MW 8/10,9/10,10/10		a Chamera III-Chamera Pooling Point D/C b Chamera Pooling Point-Jullundur D/C	220 400		Aug-10 Aug-10		Approved in SCM on 23-3-2004
20	Uri-II HEP (NHPC) in J&K 4x60 MW 8/9,9/9,10/9,11/9	POWERGRID	a Uri-I - Uri-II S/C b Uri-II - Wagoora S/C	400 400	14 108	Aug-09 Aug-09		Approved by BOD
21	Kishanganga HEP 3x110 MW 2011 - 12		Transmission scheme finalised.			Mar-12		Approved in SCM on 10/8/2004
23	Lakwar Vyasi HEP 3x100 + 2x60 MW 420 MW 2010 - 11		Transmission scheme identified.			Mar-11		
24	Kotli Behl I-A, I-B and II 3x80 + 4x70 + 8x55 MW 960 MW 2011 - 12		Transmission scheme identified.			Mar-12		
25	Subansiri Lower HEP 8x250 MW 2009 - 11		Transmission scheme identified.			Mar-11		SCM to approve.
26	Siang Middle HEP 4x250 MW 2011 - 12		Yet to be finalised.			Mar-12		
27	Rampur HEP (SJVNL) 3x144.67 MW 2010-11	POWERGRID	a LILO of Nathpa-Jhakri-Nalagarh D/C at Rampur D/C Ludhiana - Patiala LILO of Patiala -Hissar at Kaithal LILO of Nalagarh - Kaithal at Patiala	400 400 400 400	60	Mar-10 Mar-10 Mar-10 Mar-10		SCM to approve.

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
28	Luhri HEP (SJVNL) 465 MW 2011-12	POWERGRID	Transmission scheme identified.			Mar-12		SCM to approve.
29	Vishnu Gad Pipal Kothi 4x110 MW 2011-12 THDC		a LILO of one ckt of Vishnuprayag-Muzzaffar Ngr D/C at Kunwari Pass D/C b Lata Tapovan-Kunwari Pass D/C	400 220		Mar-12 Mar-12		SCM to approve.
30	Koteshwar HEP 4x100 MW 2007-08 THDC	POWERGRID	a Koteshwar - Tehri (Pooling Point) D/C b LILO of Tehri-Meerut D/C at Tehri PP	400 765	16 32	Jun-08 Jun-08		Award March, 06. Award March, 06.
31	Tehri Stage II PSS 4x250 MW 2008 - 09 THDC	POWERGRID	a Tehri-Tehri Pooling Point D/C b LILO Bareilly-Mandaula at Meerut c Charging Tehri-Meerut 2XS/C at 765 kV d Tehri PP S/S (GIS) e Meerut S/S (GIS) f Modification of Series capacitors on Tehri-Meerut lines for 765kV operation	765 400 765/400 765/400	25 4500 4500	Dec-08 Dec-08 Dec-08 Dec-08 Dec-08		
32	Kameng HEP (NEEPCO) 4x150 MW 2009-10	POWERGRID	Kameng – Balipara – Siliguri D/C Second 315 MVA	400 400/220		Mar-10 Mar-10		SCM to approve.
33	Dikrong HEP (NEEPCO) 110 MW 2009-10		Dikrong-Ranganadi HEP-I D/C	132		Mar-10		
34	Ranganadi HEP - II 2x65 MW 2010-11		Ranganadi HEP-I-Ranganadi HEP II S/C	132		Mar-11		
35	Bhareli Dam - II HEP 5x120 MW 2010-11		Transmission scheme identified.			Mar-11		SCM to approve.
36	Kapak Leyak HEP 4x40 MW 2011-12		Transmission scheme identified.			Mar-12		SCM to approve.
37	Kameng Dam HEP 5x120 MW 2011-12 (1st)		Transmission scheme identified.			Mar-12		SCM to approve.
38	Tuivai HEP NEEPCO 210 MW 2011-12		Transmission scheme identified.			Mar-12		SCM to approve.
39	Lower Kopili HEP 150 MW 2010-11		Transmission scheme identified.			Mar-11		SCM to approve.
40	Tuticorin (JV) NLC 2x500 MW 2008-09 (1st)		Yet to be identified.			Mar-09		

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
41	Hirma TPS - II (NLC) 2x800 MW 2010-11 (1st)		Yet to be identified.			Mar-11		
42	Maithon RB TPS (DVC) 4x250 MW 2007-09 Bokaro Extn. (500MW) Kodarma (1000MW) Mejia Extn. (1000MW)		Biharsharif – Sasaram quad D/C line Sasaram-Fatehpur S/C Fatehpur-Agra S/C Fatehpur-Fatehpur quad D/C LILO Singrauli-Kanpur at Fatehpur D/C LILO both ckts of Fatehpur-Kanpur at Fatehpur 2 x D/C Fatehpur 400/220kV s/s 2x315	400 765 765 400 400 220 400/220		Mar-09 Mar-09 Mar-09 Mar-09 Mar-09 Mar-09 Mar-09		Common transmission system for import of power by NR
43	Specific System for Maithon RB (1000 MW)		Maithon RB-Maithon PG D/C line. MaithonRB-Ranchi D/C line	400 400				
44	Specific System for Koderma (1000 MW) & Bokara Extn (500 MW)		Bokaro-Biharshariff D/C LILO both ckts of Bokaro-Biharshariff D/C at Koderma 2xD/C Koderma-Gaya quad D/C	400 400 400				
45	Kotlibhel st-IB (320 MW)		Kotlibhel-st1B-Roorkee D/C	400				
46	Kotlibhel st-II (440 MW)		LILO Kotlibhel-st1B-Roorkee 2nd ckt at Kotlibhel-st II D/C	400				
47	Jhajjar TPS (1500 MW)		Jhajjar-Mundka D/C line. Jhajjar-Daulatabad D/C line.	400 400				
48	Badarpur TPS (2x500 MW) Extn.		LILO of Maharanibagh - Samaypur at BTPS Extn.	400				
49	Badarpur TPS (2x500 MW) Extn.		Splitting of existing Dadri bus. Dadri-Bamnoli D/C line.	400 400				
50	Korba (III) 500 MW of NTPC		Korba-III-WR pooling point (Sipat) D/C Establishment of WR PP 2x1500 MVA Bina-Indore(PG) S/C (opt. at 400kV) LILO of Sipat-Seoni S/C at WR PP LILO of both ckts of Indore-Nagda D/C at Indore (PG) Establishment of Indore (PG) switching station Addl. 1x315 MVA transformer each at Pune, Vapi and Dehgam	400 765/400 765 765 400 400 400 400/220				

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
51	Tripura Gas, 1050 MW (P)		Tripura Gas-Silchar-Bongaigaon D/C Tripura S/S Gas, 132kV line to s/s Silchar S/S, 132kV lines to s/s Bongaigaon-Siliguri D/C Quad Purnea-Biharsharif D/C Quad	400 400/132 400/132 400 400				
52	Specific System for Raghunathpur (1000 MW) & Durgapur (1000 MW)		LILO one ckt of Durgapur (PG)-Jamshedpur at Durgapur LILO one ckt of Maithon (PG)-Ranchi at Raghunathpur Durgapur (Gen)-Raghunathpur-Ranchi quad D/C	400 400 400 400				
53	Kotlibhel st-IA (195 MW)		LILO Kotlibhel-st1B-Roorkee 1st ckt at Kotlibhel-st1A D/C	400				
Nuclear								
1	PFBR 1x500 MW 2011-12		KPFBR – Kancheepuram D/C line KPFBR – Arni D/C line KPFBR – Sirucher D/C line KPFBR – MAPS S/C	230 230 230 230		Mar-12 Mar-12 Mar-12 Mar-12		
Uttar Pradesh								
1	Anpara 'C' TPS 2x500 MW 2010-11	UPPCL	Charging Anpara-Unnao S/C line at 765 kV Anpara S/S 2x630 Unnao S/S 3x630	765 765/400 765/400		Mar-11 Mar-11 Mar-11		
2	Rosa (600 MW)		Rosa-Shahjahanpur 2xS/C Rosa-Hardoi D/C Rosa-Badaun S/C Hardoi S/S 2x100	220 220 220 220/132				
3	Reliance Gas (Dadri) (P) 3740 MW 2007-09	UPPCL	To be discussed.			Mar-09		
Rajasthan								
1	Chhabra TPS (2x250MW) 2008-09	RVPN	a) Chhabra TPS-Bhilwara S/C b) Chhabra TPS-Hindaun S/C c) Chhabra TPS-Jhalawar S/C d) LILO Bhilwara-Pali at Bhilwara D/C e) LILO Bhilwara-Bali at Bhilwara D/C f) Hindaun (400 kV)-Hindaun (220 kV) D/C	400 400 220 220 220 220	270 280 100 10 10 20	Mar-09 Mar-09 Mar-09 Mar-09 Mar-09 Mar-09		

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
			g) Hindaun (400 kV)-Mandawar D/C	220	65	Mar-09		
			h) Chhabra-Baran-Dahra	220	130	Mar-09		
			i) Bhilwara S/S (1x315)	400/220	315	Mar-09		
			j) Hindaun S/S (1x315)	400/220	315	Mar-09		
			k) Baran S/S (1x100)	220/132	100	Mar-09		
2	Suratgarh STPS Unit-6 (1x250 MW) - 10/08	RVPN	a) Suratgarh STPS -Bikaner S/C LILO Bikaner-Sridungargarh at 220	400	185	Oct-08		
			b) Bikaner (400 kV) D/C LILO Bikaner- Nagaur at Bikaner (400 220	20	20	Oct-08		
			c) kV) D/C			Oct-08		
			d) Bikaner S/S (1X315)	400/220	315	Oct-08		
Himachal Pradesh								
1	Kashang - II HEP 2x30 MW 2009 - 10	HPSEB	At lower voltage.					
2	Allain Duhangan HEP (P) 2x96 MW 2010 -11	HPSEB	Transmission scheme identified.			Mar-11		
3	Dhamvari Sunda HEP (P) 2x35 MW 2010 - 11	HPSEB	Dhamvari Sunda-Maliana 2xS/C+D/C			Mar-11		
4	Karcham Wang Too HEP 4x250 MW 2010 - 11 (P)	HPSEB	LILO of Baspa-Nathpa Jhakri D/C at K Wangtoo	400		Mar-11		
			Karchem Wangtoo-Abdullapur D/C	400		Mar-11		
			Beyond Abdullapur tr. System has to be evolved					
5	Allan Dhungan (192MW)	HPSEB	Allain Dhuangan-Parbati PP D/C Beyond Parbati PP, evacuation through Parbati II	220				
Jammu and Kashmir								
1	Parnai HEP 3x12.5 MW 2010 - 11	PDD, J & K	At lower voltage.					
2	Sawal Kot HEP 3x200 MW 2010 - 11	PDD, J & K	Transmission scheme identified.			Mar-11		
3	ANS - II HEP 2x15 MW 2010 - 11	PDD, J & K	At lower voltage.					
4	L. Kalnai HEP 2x25 MW 2010 - 11	PDD, J & K	At lower voltage.					
Punjab								
1	Shahpur Kandi HEP 4x40 + 1x8 MW 2009 - 10	PSEB	Transmission scheme finalised.			Mar-10		

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
	2 UBDC - III HEP 75 MW 2009 - 10	PSEB	At lower voltage.					
	3 Goindwal Saheb (500 MW)	PSEB	Goindwal-Tathasahib D/C Goindwal-Tarntaran D/C LILO Jamsher-Verpal D/C at Goindwalsahib 2xD/C Goindwal 100 MVA	220 220 220 220/132				
Uttaranchal								
	1 Tuini Palasu HEP 3x14 MW 2011 - 12	UPCL	LILO one ckt Arakot Tuni-Mori at Tuinipalasu D/C	220				
	2 Bawala Nand Prayag HEP 3x44 MW 2011 - 12	UPCL	Bawala Nand Prayag – Karanpryag 132 kV D/C line			Mar-12		
	3 Arkot Tiuni HEP 3x24 MW 2011 - 12	UPCL	At lower voltage.					
	4 Srinagar HEP (P) 4x82.5 MW 2010 - 11	UPCL	a Srinagar-Nehtaur S/C b Srinagar-Kashipur S/C	400 400	150 175	Mar-11 Mar-11		
	5 Palamaneri (480 MW)	UPCL	a LILO one ckt Lohari Nagpala-Tehri at Palamaneri 400 kV D/C	400				
Gujarat								
	1 Utran CCGT 300 MW 2008 - 09	GETCO	a Utran - Kosamba 2xD/C b Kosamba-Mobha 2xD/C	220 220	160 440	Dec-08 Dec-08		
	2 Sikka TPP Extn. 2x250 MW 2008 - 09	GETCO	a LILO Jetpur-Jamnagar at Sikka 2XD/C b Sikka-Rajkot D/C line c Sikka S/S	220 220 220/132	64 160 200	Mar-10 Mar-10 Mar-10		
	3 Surat Lignite Extn. 2x125 MW 2008 - 09	GETCO	Existing system adequate					
	4 Essar-Hazira CCGT Extn. 4x365 MW 2007 - 09 (P)	GETCO	No Right of Way in Surat			Mar-09		
	5 Pipava Coal Based Proj. 350MW	GETCO	Pipava-Mahuva D/C line Pipava-Dhokadva D/C line	220 220	60 100	Mar-12 Mar-12		
	6 Kawas (515 MW)	GETCO	Kasor-Vapi D/C line Kasor-New Bombay D/C line	400 400	260 320	May-08 May-08		
	7 Gandhar (515 MW)	GETCO	Gandhar-Hadala D/C line Gandhar-Kawas D/C line	400 400	680 140	May-08 May-08		

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
8	Ukai Extn. (500 MW)	GETCO	Ukai-Kosamba D/C line Kosamba-Chorani D/C line	400 400	170 520	Mar-10 Mar-10		
9	SLPP Stage-II 250 MW	GETCO	Mangrol-Mobha D/C line	220	220	Mar-09		
10	Paguthan (350+700 MW)	GETCO	Paguthan-Kasor 400 kV D/C Paguthan-Fedra 400 kV D/C System strengthening below Fedra 400 kV S/S yet to be identified by GETCO	400 400				
11	Akhakhol-Paguthan (730MW)	GETCO	LILO of Kawas-Gandhar D/C at Akhakhol Akhakhol-Dehgam 400 kV D/C	400 400				
Maharashtra								
1	Khaperkheda Extn. 1x 500 MW 2009-10	MSEB	a LILO of Chandrapur - Koradi at TPS b TPS - Khaperkheda D/C c Khaperkheda S/S 2x315	400 220 400/220	50 20 630	Mar-10 Mar-10 Mar-10		
2	Uran CCGP 1040 MW 2007 - 08	MSEB	Yet to be finalised.					
3	Talegaon CCGT Block 1, 2 1400 MW 2008 - 09	MSEB	Yet to be finalised.			Mar-09		
4	Vile-TATA TPS (P) 2x500 MW 2009 - 10	MSEB	Yet to be finalised.			Mar-10		
5	Nagothane CCGT (P) 1000 MW 2008 - 09 (REL)	MSEB	Transmission scheme finalised.			Mar-09		
6	Koradi TPS (500 MW) 2010-11	MSEB	Koradi – Wardha(PG) 400 kV D/C Koradi – Akola 400 kV D/C LILO of Koradi – Ambazari D/C at Koradi 2xD/C LILO of Koradi – Buttibori S/C at Koradi D/C Koradi (2x315 MVA)S/S	400 400 220 220 400/220	200 480 50 50 630	Mar-11 Mar-11 Mar-11 Mar-11 Mar-11		
7	Bhusawal TPS (1000 MW) 2010-11	MSEB	Bhusawal-II-Bhusawal (Khadaka) D/C Bhusawal – II – Aurangabad D/C Bhusawal –II –Bhusawal D/C Bhusawal (2x315 MVA) S/S	400 400 220 400/220	20 340 10 360	Mar-11 Mar-11 Mar-11 Mar-11		
8	Parli Ext. Stage-II (250 MW)		LILO both ckts of Parli-Beed D/C at Parli Extn.2xD/C LILO of Nanded-Girwali line at Parli D/C	220 220				

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13

Chhattisgarh

1 Pathdi TPS (LANCO) (P)
2x300 MW 2007 - 09 CSEB Yet to be finalised. Mar-09

2 Matnar HEP
3x20 MW 2010 - 11 CSEB At lower voltage.

3 Marwa
(1000 MW) CSEB
Marwa-Raipur (New) D/C 400
LILO Korba-Khedamara S/C at Marwa D/C 400
Marwa 1x315 MVA S/S 400/220
Raipur (New) 1x315 MVA S/S 400/220
Mahasamund-Gurur D/C 220
Raipur (New)-Doma D/C 220
Raipur (New)-Siltara D/C 220
Raipur (New)-Urla D/C 220
Raipur (New)-Mahasamund D/C 220
Marwa-Mopka D/C 220
Doma 1x160 MVA S/S 220/132
Doma (220 kV)-Kachna D/C 132
Doma (220 kV)-Kurud D/C 132

4 Bodhghat
(500 MW) CSEB Bodhghat (Barsoor)-Khedamara D/C 400

5 IGTPP Bhaythan
(1320 MW) CSEB
Bhaiyathan-Bilaspur 400 kV D/C 400
Bilaspur-Raipur 400 kV D/C 400
Bhaiyathan-Bishrampur 220 kV D/C 220
Bilaspur-Mopka 220 kV D/C 220
Bhaiyathan-Baikunthpur D/C 220
Mopka-Mungeli 220 kV D/C 220
Bhaiyathan 400/220 kV 1x315 S/S 400/220
Bilaspur 400/220 kV 1x315 MVA S/S 400/220
Mungeli 1x160 MVA S/S 220/132
Baikunthpur 1x160 MVA S/S 220/132
Mungeli (220 kV)-Mungeli D/C 132
Baikunthpur (220 kV)-Baikunthpur 132 kV D/C

Madhya Pradesh

1 Maheshwar HEP (P)
10x40 MW 2009 - 11 MPPTCL
Maheshwar-Pithampura 220 kV D/C 220 Mar-10
Maheshwar-Rajgarh 220 kV D/C 220 Mar-10
Maheshwar-Julwania 220 kV D/C 220 Mar-10

2 Malwa TPP (2x500 MW) MPPTCL
Indore – Pithampura 400 80 Mar-09
Malwa TPS – Khandwa (PGCIL) 400 100 Jul-10
Malwa TPS – Pithampura D/C 400 240 Jul-10
Pithampura (New) 400/220 315 Mar-09

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
			Malwa TPS – Chhegaon D/C	220	160	Mar-10		
			Pithampura 400 kV – Pithampura Inter Connector	220	20	Mar-09		
Andhra Pradesh								
	1 Vijaywada TPP 1x660 MW 2008 - 09	APTRANSCO	VTPS - Yeddumailaram D/C	400		Mar-09		
			VTPS - Narasaraopeta D/C	400		Mar-09		
			Tadikonda-Narasaraopeta S/C	400		Mar-09		
			1x315 MVA Transf at VTPS	400/220		Mar-09		
	2 Bhopalapally TPP 1x500 MW 2008 - 09	APTRANSCO	Yet to be finalised.			Mar-09		
	3 Jegrupadu Extn.II (GVK) 220 MW 2007 - 08 (P)	APTRANSCO	Transmission covered under Extn. I	400		Jul-05		ALREADY COVERED.
	4 Gautami CCPP Extn. (P) GT (2x145 MW)-08/07 ST (174 MW)-08/07	APTRANSCO	Transmission covered under CCPP.	400		Dec-05		ALREADY COVERED.
	5 Nagarjuna Sagar TP Dam 2x25 MW 2009 - 10 (S)	APTRANSCO	At low voltage.					
Karnataka								
	1 Bidadi CCPP 1400 MW 2007 - 09	KPTCL	Yet to be identified			Mar-09		
	2 Nagarjuna TPP (P) 2x507.5 MW 2008 - 09	KPTCL	Nagarjuna TPP-Hassan 400 kV D/C	400		Mar-09		
			Hassan-Bidadi 400 kV D/C	400		Mar-09		
			LIL0 2nd ckt Talaguppa-Neelamangla	400		Mar-09		
	3 Gundia HEP (S) 3x100 MW 2010 - 11	KPTCL	Yet to be finalised.			Mar-11		
	4 Varahi HEP (S) 230 MW 2011-12	KPTCL	Varahi-Hassanpur D/C	220		Mar-12		
Tamil Nadu								
	1 Valuthur CCGT Extn. GT (60 MW)-11/07 ST (32.2 MW)-02/08	TNEB	At lower voltage.					
	2 Bhawani Barrage 60 MW 2009 - 10	TNEB	At lower voltage.					
Kerala								
	1 Kannur CCGT (P) 513 MW 2008 - 09	KSEB	Transmission scheme finalised.			Mar-09		

Sl. No.	Generating Plant	State/Agency executing the Scheme	Associated Transmission Scheme	Voltage (kV)	CKm/ MVA	Target Date	Revised Target	Remarks
1	2	3	4	5	6	11	12	13
	2 Athirapally HEP (S) 2x80 + 2x1.5 MW 2009-10	KSEB	a Athirapally-Kodakara D/C (2x22.369 + 4x7.663)	220	60	Mar-11		New site to be identified
			b Kodakara S/S 2x100	220/110	200	Mar-11		Award by December 05
Jharkhand								
	1 TENUGHAT EXTN. (S) 3x210 MW 2008 -10	JSEB	a Tenughat - Ranchi D/C	400	200	Mar-09		
			b Chandil - Jamshedpur D/C	400		Mar-09		
			c Ranchi (JSEB)-Ranchi (PG)	400	40	Mar-09		
			d Hatia (Ranchi) S/S 2x315	400/220	630	Mar-09		
			e Chandil S/S 1x315	400/220	315	Mar-09		
			f Chandil S/S 1x315	400/132	315	Mar-09		
			g Hatia S/S 1x315	400/132	315	Mar-09		
			h Ranchi-Chandil D/C	220		Mar-09		
			i Chandil-Jamshedpur D/C	220		Mar-09		
			j Jamshedpur S/S 2x150	220/132	300	Mar-09		
West Bengal								
	1 Torsa HEP (S) 2x25 MW 2011 - 12	WBSEB	At lower voltage.					
	2 Raidak HEP (S) 2x24 MW 2011 - 12	WBSEB	At lower voltage.					
Orissa								
	1 Bada Bandah U - I (S) 1x800 MW 2011 -12	GRIDCO	Yet to be finalised.					
	2 Ib TPS - II (P) Unit - V 1x500 MW 2009 - 10	GRIDCO	IB TPS-Meramundali 400 kV D/C	400				
	3 Balimela DPH (P) 3x20 MW 2009 -10	GRIDCO	At lower voltage.					
	4 Jorda Nuelpoi, CESC(500 MW)	GRIDCO	Jorada Nuelpoi-Ib TPS 400 kV D/C	400				
	5 Auranga TPP, Tata Power (1000 MW)	GRIDCO	Auranga TPP-Maithon (PG) D/C	400				
Assam								
	1 Lakwa (WH) 38 MW	ASEB	Existing System adequate.					
	2 Namrup Extn. CCGT (S) 2x50 MW 2008 -10	ASEB	Yet to be finalised.				Mar-10	
	3 Amguri CCGT (P) 2x50 MW 2009 - 11	ASEB	Yet to be finalised.				Mar-11	
Meghalaya								
	1 Umiam-Umtru V HEP 36 MW 2010 - 11	MeSEB	At lower voltage.				Mar-11	
Mizoram								
	1 Bairabi Dam HEP 2x40 MW 2010 - 11	DoP Mizoram	At lower voltage.				Mar-11	