



CENTRAL ELECTRICITY AUTHORITY

TRANSMISSION CAPACITY ADDITION PROGRAMME DURING 2009-10

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POWER SYSTEM PROJECT MONITORING DIVISION

**NEW DELHI
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**TRANSMISSION CAPACITY ADDITION
PROGRAMME
DURING
2009-10**

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INTRODUCTION

1.1 GENERAL

The role of electricity sector in an economy hardly needs to be emphasized. Notwithstanding the substantial development made in the power sector in the country, most of the regions in the country are still suffering from shortage of electricity. Adequate capacity addition and its utilization in most optional manner is the most important aspect of the power development.

Commensurate with the capacity addition, an extensive network of transmission and distribution has been developed over the years for evacuation of power generated and utilizing the same by the ultimate consumers. The new capacity additions call for further strengthening of the transmission system. The transmission capacity addition programme is continuously monitored by the Power System Project Monitoring Division in the Central Electricity Authority.

1.2 MONITORING

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

The primary responsibility arising under the planning element is the finalization of the Programme of Construction activities of transmission works for the year and laying down the general principles on the basis of which it will operate. These general principles basically involve availability of the finances, land, supply of materials and various statutory clearances

to undertake construction works etc. The construction programme for the year is finalised and distributed properly into the four quarters of the year.

The finalized targets for year 2009-10 for transmission schemes are shown in Table 2.1.

1.3 **ROLE OF CEA**

The Central Electricity Authority is a key institution in promoting and assisting the timely completion of the schemes for improving and augmenting the electricity system. The Power System Project Monitoring Division which acts as a facilitator in expediting construction of the transmission schemes and renders valuable assistance to the Utilities in solving their problems like ROW problems and arranging various clearances like forest clearance from MOE&F etc.. The site visits by the officers of the Power System Project Monitoring Division and holding “Review Meetings” regularly in the Central Electricity Authority with the Utility representatives. This inter-action provides an excellent ground to identify bottlenecks and the action required to ensure completion of schemes as per targets.

1.4 **PROGRAMME FOR 2009-10**

Review meetings were held with various State Power Utilities and Central Utilities e.g. PGCIL & DVC during November 2008 to February 2009 to identify the transmission programme to be completed in the following year i.e. 2009-10. Detailed discussions were held by the CEA officers with the representatives of various agencies regarding the on-going physical performance during the year 2008-09. Based on the inputs given by power utilities, the programme of construction of Transmission lines and Sub-Stations (220 kV and above), for the year 2009-10 has been finalized.

CHAPTER – 1

TRANSMISSION CAPACITY ADDITIONS **DURING 2008-09**

The programme for construction of transmission works (220 kV and above) during 2008-09 for evacuation of power from generating stations as well as for strengthening of power system network was envisaged in the beginning of the financial year 2008-09 on the basis of capacity addition programme. The net achievement of the transmission capacity additions during the year as compared with the previous year is given below.

A. TRANSMISSION LINES:-

(All figures in ckm)

	TRANSMISSION CAPACITY ADDITIONS DURING 2008-09			Ach. 2007-08	Growth as % of 2007-08
	Prog. 2008-09	Ach. (upto Mar 08) 2008-09	Ach as % of prog. 2008-09		
765 kV lines	653	564	86.4	370	152.4
± 500 kV HVDC	1250	1180	94.4	120	983.3
400 kV lines	8025	6827	85.1	6947	98.3
220 kV lines	6493	4171	64.2	4160	100.3

B. SUBSTATIONS:-

(All figures in MVA/MW)

± 500 kV HVDC CONVERTER TER.	0	0	0.0	500	-
HVDC B/B S/S	0	0	0.0	0	-
765 kV S/S	0	0		4500	-
400 kV S/S	9885	7995	80.9	10265	77.9
220 kV S/S	14943	11234	75.2	9658	116.3

While reviewing the progress during 2008-09 it is worthwhile to mention that the associated transmission works for the following projects were completed but could not be commissioned due to delay in the commissioning of Generating Units:-

- (a) Kahalgaon STPP (3x500 MW)
- (b) Sipat STPP-I (3x660 MW)
- (c) RAPP Extn. (2x220 MW)
- (d) Neyveli TPS Extn. 1x250 MW)

Details of year wise Targets Vs Achievements of Transmission Lines and Sub-Stations for various voltage level is given in tables 1.1(a), 1.1(b).

TABLE - 1.1(a)

**YEARWISE TARGETS VS ACHIEVEMENTS-UPTO 2nd YEAR OF 11TH FIVE
YEAR PLAN & PROGRAMME FOR 3rd YEAR OF 11TH PLAN**

TRANSMISSION LINES (CKM)

Voltage kV	Name of the Utility	2007-08		2008-09		2009-10 Programme including slipped programme of 2008-09
		P	A	P	A	
765	POWERGRID (CS)	160	370	653	564	632
	Total (All India)	160	370	653	564	632
+/-500	POWERGRID (CS)	0	120	1250	1180	280
	Total (All India)	0	120	1250	1180	280
400	POWERGRID	4894	5688	5658	5120	6526
	DVC	0	0	0	0	161
	TOTAL (CS)	4894	5688	5658	5120	6687
	Delhi	0	0	0	0	0
	Himachal Pradesh	0	0	0	0	0
	Haryana	0	0	0	0	163
	J&K	139	136	0	0	0
	Punjab	0	0	0	0	0
	Rajasthan	199	268	505	807	992
	Uttar Pradesh	100	0	0	0	0
	Uttarakhand	390	0	0	0	0
	TOTAL (NR)	828	404	505	807	1155
	Chattisgarh	514	382	162	162	0
	Daman-UT	0	0	0	0	0
	DNH-UT	0	0	0	0	0
	Gujarat	150	143	1023	437	877
	Goa	0	0	0	0	0
	Madhya Pradesh	10	20	10	9	0
	Maharashtra	0	141	0	68	10
	TOTAL (WR)	674	686	1195	676	887
	Andhra Pradesh	131	110	95	38	157
	Karnataka	0	0	316	49	320
	Kerala	0	0	0	0	0
	Tamilnadu	0	0	0	0	0
	TOTAL (SR)	131	110	411	87	477
	Bihar	0	0	0	0	0
	Orissa	50	2	173	85	147
	West Bengal	330	57	83	52	195
	Jharkhand	0	0	0	0	0
	TOTAL (ER)	380	59	256	137	342
	Total (SS)	2013	1259	2367	1707	2861
	Total (All India)	6907	6947	8025	6827	9548

TABLE - 1.1(a)

**YEARWISE TARGETS VS ACHIEVEMENTS-UPTO 2nd YEAR OF 11TH FIVE
YEAR PLAN & PROGRAMME FOR 3rd YEAR OF 11TH PLAN**

TRANSMISSION LINES (CKM)

Voltage kV	Name of the Utility	2007-08		2008-09		2009-10 Programme including slipped programme of 2008-09
		P	A	P	A	
220	POWERGRID	159	317	191	191	56
	DVC	65	64	626	50	576
	Total (CS)	224	381	817	241	632
	Chandigarh	0	0	0	0	0
	Delhi	76	15	68	8	88
	Himachal Pradesh	185	101	11	85	307
	Haryana	299	199	340	290	180
	J&K	153	141	22	9	12
	Punjab	169	54	252	135	260
	Rajasthan	572	196	1098	430	946
	Uttar Pradesh	420	142	461	285	247
	Uttarakhand	100	71	0	46	80
	Total (NR)	1974	919	2252	1288	2120
	Chattisgarh	546	263	323	124	264
	Daman-UT	0	0	0	0	0
	DNH-UT	0	0	0	0	0
	Gujarat	282	402	265	182	835
	Goa	20	0	23	0	23
	Madhya Pradesh	380	371	710	1201	684
	Maharashtra	303	179	234	72	250
	TOTAL (WR)	1531	1215	1555	1579	2056
	Andhra Pradesh	231	389	290	138	315
	Karnataka	201	136	648	343	624
	Kerala	33	2	33	0	33
	Tamilnadu	273	537	445	448	385
	TOTAL (SR)	738	1064	1416	929	1357
	Bihar	145	0	145	16	135
	Orissa	415	195	74	67	63
	West Bengal	361	266	184	48	462
	Jharkhand	60	120	50	0	248
	TOTAL (ER)	981	581	453	131	908
	Meghalaya	0	0	0	2	230
Assam	0	0	0	1	0	
TOTAL (NER)	0	0	0	3	230	
Total (SS)	5224	3779	5676	3930	6671	
Total (All India)	5448	4160	6493	4171	7303	

TABLE - 1.1(b)

**YEARWISE TARGETS VS ACHIEVEMENTS-UPTO 2nd YEAR OF 11TH FIVE
YEAR PLAN & PROGRAMME FOR 3rd YEAR OF 11TH PLAN**

SUB-STATIONS (MVA/MW)

Voltage kV	Name of the Utility	2007-08		2008-09		2009-10 Programme including slipped programme of 2008-09
		P	A	P	A	
765	POWERGRID (CS)	2169	4500	0	0	0
	Total (All India)	2169	4500	0	0	0
HVDC ± 500 kV Terminal Stations	POWERGRID (CS)	0	500	0	0	2500
	Total (All India)	0	500	0	0	2500
400	POWERGRID	8940	8375	6615	6930	6615
	DVC	0	0	0	0	0
	TOTAL(CS)	8940	8375	6615	6930	6615
	Delhi	0	0	0	0	0
	Himachal Pradesh	0	0	0	0	0
	Haryana	0	0	0	0	315
	J&K	0	0	0	0	0
	Punjab	0	0	0	0	0
	Rajasthan	630	0	0	0	945
	Uttar Pradesh	435	0	435	120	315
	Uttarakhand	0	0	0	0	0
	TOTAL (NR)	1065	0	435	120	1575
	Chattisgarh	0	0	630	315	630
	Daman-UT	0	0	0	0	0
	DNI-UT	0	0	0	0	0
	Gujarat	630	315	315	0	945
	Goa	0	0	0	0	0
	Madhya Pradesh	0	0	0	0	315
	Maharashtra	0	0	0	0	0
	TOTAL (WR)	630	315	945	315	1890
	Andhra Pradesh	630	945	630	630	1260
	Karnataka	0	0	0	0	315
	Kerala	0	0	0	0	0
	Tamilnadu	0	630	0	0	0
	TOTAL (SR)	630	1575	630	630	1575
	Bihar	0	0	0	0	0
	Orissa	0	0	630	0	630
	West Bengal	630	0	630	0	945
	Jharkhand	740	0	0	0	0
	TOTAL (ER)	1370	0	1260	0	1575
	Assam	0	0	0	0	0
	Arunachal Pradesh	0	0	0	0	0
	Total (NER)	0	0	0	0	0
	Total (SS)	3695	1890	3270	1065	6615
	Total (All India)	12635	10265	9885	7995	13230

TABLE - 1.1(b)

**YEARWISE TARGETS VS ACHIEVEMENTS-UPTO 2nd YEAR OF 11TH FIVE
YEAR PLAN & PROGRAMME FOR 3rd YEAR OF 11TH PLAN**

SUB-STATIONS (MVA/MW)

Voltage kV	Name of the Utility	2007-08		2008-09		2009-10 Programme including slipped programme of 2008-09
		P	A	P	A	
	POWERGRID	200	200	360	100	560
	DVC	200	0	750	100	850
	Total (CS)	400	200	1110	200	1410
	Chandigarh	0	0	0	100	0
	Delhi	1060	0	1060	260	1140
	Himachal Pradesh	190	0	150	0	296
	Haryana	400	500	1150	1200	750
	J&K	150	150	320	160	120
	Punjab	200	100	400	550	800
	Rajasthan	100	250	300	850	600
	Uttar Pradesh	1360	603	2443	1603	1420
	Uttarakhand	300	0	100	0	100
	TOTAL (NR)	3760	1603	5923	4723	5226
	Chattisgarh	640	160	640	320	800
	Daman-UT	0	0	0	0	0
	DNH-UT	0	0	0	0	0
	Gujarat	580	175	1310	250	1040
	Goa	0	0	100	0	100
	Madhya Pradesh	740	580	1120	1220	800
	Maharashtra	550	1600	750	1450	750
	TOTAL (WR)	2510	2515	3920	3240	3490
	Andhra Pradesh	400	820	400	331	500
	Karnataka	450	850	850	1260	750
	Kerala	200	100	100	0	200
	Tamilnadu	350	1800	350	1060	300
	TOTAL (SR)	1400	3570	1700	2651	1750
	Bihar	1450	200	1350	100	1450
	Orissa	700	320	300	120	100
	West Bengal	800	800	640	100	800
	Jharkhand	0	400	0	0	0
	TOTAL (ER)	2950	1720	2290	320	2350
	Assam	0	50	0	100	0
	Meghalaya	0	0	0	0	160
	Arunachal Pradesh	0	0	0	0	0
	TOTAL (NER)	0	50	0	100	160
	Total (SS)	10620	9458	13833	11034	12976
	Total (All India)	11020	9658	14943	11234	14386

220

CHAPTER – 2

CONSTRUCTION PROGRAMME OF TRANSMISSION SCHEMES FOR THE YEAR 2009-10

The construction programme of transmission schemes (220 kV and above) for the year 2009-10 was formulated in consultation with Central and State Power Utilities during the meetings with Central and State power utilities and are listed in the Annexure.

± 500 kV HVDC lines of 1580 Ckm for transfer of 2500 MW inter-regional power has been planned for the current year. This includes the construction of ± 500 kV Balia-Bhiwadi line along with converter and with electrode stations by POWERGRID. The programme of construction of 765 kV, ± 500 kV HVDC, 400 kV and 220 kV transmission lines for the year 2009-10 is 632 Ckm, 280 Ckm, 9548 Ckm and 7303 Ckm respectively and the programme for transformation capacity additions at 500 kV HVDC, 400 kV and 220 kV levels is 2500 MW, 13230 MVA and 14386 MVA respectively during the year. The above programme also includes the slipped programme of 2008-09. All the transmission works is being monitored expeditiously for commissioning as per schedule.

The quarterwise programme of various utilities in the country for transmission lines and Sub-Stations has been shown at Table 2.2(a) & (b) respectively for the year 2009-10.

The detailed Line wise and Sub-Station wise target as envisaged in the beginning of the year and revised are shown at Annex- I & II. The programme includes mainly the power evacuation lines associated with generating stations.

TABLE – 2.1

**ABSTRACT OF THE CONSTRUCTION PROGRAMME OF
THE TRANSMISSION SCHEMES (220 kV AND ABOVE)
FOR THE YEAR 2009-10**

ANNUAL ACTION PLAN

TRANSMISSION LINES (CKM) :

Voltage Level	Quarter (2009-10)				Total 2009-10
	1st	2nd	3rd	4th	
765 kV	50	73	250	259	632
+/- 500 kV					
HVDC	160	120	0	0	280
400 kV	1512	2031	3210	2795	9548
220 kV	1237	1609	1987	2470	7303

SUB-STATIONS (MVA/MM) :

Voltage Level	Quarter (2009-10)				Total 2009-10
	1st	2nd	3rd	4th	
765 kV	0	0	0	0	0
+/- 500 kV					
HVDC	0	0	0	2500	2500
400 kV	1575	3150	5670	2835	13230
220 kV	2635	3766	3070	4915	14386

NOTE: - The details of the construction programme of transmission lines and transformation works (220 kV and above) for the year 2009-10 utility wise are given in table – 2.2(a) and 2.2(b).

**UTILITYWISE DETAILS OF THE CONSTRUCTION PROGRAMME OF
TRANSMISSION SCHEMES FOR THE YEAR 2009-10**

TRANSMISSION LINES (CKM) :

Utility 1	Voltage 2	Q1 3	Q2 4	Q3 5	Q4 6	Total 7
POWERGRID (CS)	500 HVDC	160	120	0	0	280
Total (CS)	500 HVDC	160	120	0	0	280
Total (All India)	500 HVDC	160	120	0	0	280
POWERGRID (CS)	765	110	73	190	259	632
Total (CS)	765	110	73	190	259	632
Total (All India)	765	110	73	190	259	632
POWERGRID (CS)	400	1300	1200	2200	1826	6526
DVC	400	50	21	40	50	161
Total (CS)	400	1350	1221	2240	1876	6687
Himachal Pradesh	400	0	0	0	0	0
Rajasthan	400	300	200	250	242	992
Uttar Pradesh	400	0	0	0	0	0
Uttarakhand	400	0	0	0	0	0
J & K	400	0	0	0	0	0
Haryana	400	10	50	53	50	163
Chhattisgarh	400	0	0	0	0	0
Gujarat	400	350	100	150	277	877
Madhya Pradesh	400	0	0	0	0	0
Maharashtra	400	10	0	0	0	10
Andhra Pradesh	400	50	75	32	0	157
Karnataka	400	130	50	90	50	320
Tamilnadu	400	0	0	0	0	0
Orissa	400	1	146	0	0	147
West Bengal	400	0	0	95	100	195
Jharkhand	400	0	0	0	0	0
Total (SS)	400	851	621	670	719	2861
Total (All India)	400	2201	1842	2910	2595	9548
POWERGRID	220	0	0	0	56	56
DVC	220	75	150	150	201	576
Total (CS)	220	75	150	150	257	632
Chandigarh	220	0	0	0	0	0
Delhi	220	1	0	0	87	88
Himachal Pradesh	220	15	75	75	142	307
Haryana	220	60	60	60	0	180
Punjab	220	10	75	125	50	260
Rajasthan	220	230	200	250	266	946
Uttar Pradesh	220	40	60	60	87	247
Uttarakhand	220	10	20	40	10	80
Jammu & Kashmir	220	4	4	4	0	12
Chhattisgarh	220	35	50	75	104	264
Gujarat	220	200	150	150	335	835
Goa	220	0	0	0	23	23
Madhya Pradesh	220	250	150	150	134	684
Maharashtra	220	20	50	75	105	250
Andhra Pradesh	220	20	75	95	125	315
Karnataka	220	230	150	170	74	624
Kerala	220	9	10	0	14	33
Tamilnadu	220	70	75	100	140	385
Bihar	220	0	0	0	135	135
Orissa	220	0	30	33	0	63
Jharkhand	220	8	75	75	90	248
West Bengal	220	30	100	100	232	462
Assam	220	0	0	0	0	0
Meghalaya	220	20	50	100	60	230
Total (SS)	220	1262	1459	1737	2213	6671
Total (All India)	220	1337	1609	1887	2470	7303

TABLE - 2.2(b)

SUBSTATION (MVA/MW) :

Utility 1	Voltage 2	Q1 3	Q2 4	Q3 5	Q4 6	Total 7
POWERGRID (CS)	765	0	0	0	0	0
POWERGRID (CS)	500	0	0	0	2500	2500
POWERGRID (CS)	400	315	1890	4095	315	6615
Delhi	400	0	0	0	0	0
Rajasthan	400	0	0	0	945	945
Uttar Pradesh	400	0	0	0	315	315
Uttarakhand	400	0	0	0	0	0
Haryana	400	0	0	315	0	315
Chhattisgarh	400	0	0	630	0	630
Madhya Pradesh	400	0	0	315	0	315
Gujarat	400	315	630	0	0	945
Andhra Pradesh	400	315	315	315	315	1260
Karnataka	400	315	0	0	0	315
Tamilnadu	400	0	0	0	0	0
Jharkhand	400	0	0	0	0	0
Orissa	400	315	315	0	0	630
West Bengal	400	0	0	0	945	945
Total (SS)	400	1260	1260	1575	2520	6615
Total (All India)	400	1575	3150	5670	2835	13230
POWERGRID	220	100	260	200	0	560
DVC	220	150	350	150	200	850
Total (CS)	220	250	610	350	200	1410
Chandigarh	220	0	0	0	0	0
Delhi	220	100	0	0	1040	1140
Himachal Pradesh	220	25	126	20	125	296
Haryana	220	150	300	200	100	750
Punjab	220	200	100	200	300	800
Rajasthan	220	300	100	200	0	600
Uttar Pradesh	220	100	460	400	460	1420
Uttarakhand	220	0	0	100	0	100
PDD, J & K	220	0	0	120	0	120
Chhattisgarh	220	320	320	0	160	800
Gujarat	220	320	320	350	50	1040
Goa	220	0	100	0	0	100
Madhya Pradesh	220	160	320	320	0	800
Maharashtra	220	50	150	250	300	750
Andhra Pradesh	220	100	200	100	100	500
Karnataka	220	200	150	300	100	750
Kerala	220	0	100	0	100	200
Tamilnadu	220	100	100	0	100	300
Bihar	220	0	150	0	1300	1450
Orissa	220	100	0	0	0	100
West Bengal	220	160	160	160	320	800
Jharkhand	220	0	0	0	0	0
Assam	220	0	0	0	0	0
Meghalaya	220	0	0	0	160	160
Total (SS)	220	2385	3156	2720	4715	12976
Total (All India)	220	2635	3766	3070	4915	14386

Legend

CS - Central Sector

SS - State Sector

Q - Quarter

CHAPTER 3

TRANSMISSION LINES AND TRANSFORMATION CAPACITY EXISTING AT THE END OF VARIOUS PLAN PERIODS IN INDIA

The transmission line capacity addition (220 kV and above) during various plan periods till end of 2nd year of 11th plan at various voltage levels viz 765 kV, \pm 500 kV HVDC, 400 kV and 220 kV are indicated in table 3.1(a) and 3.1(b). Similarly, the transformation capacity (220 kV and above) during various plan periods till end of 2nd year of 11th plan at various voltage levels viz 765 kV, 400 kV, 220 kV sub stations and \pm 500 kV HVDC, HVDC (Back-to-Back) terminals are indicated in table 3.2(a) and 3.2(b). These tables provide information regarding the achievement vis-à-vis programme of transmission works during various plan periods.

Growth in Transmission Lines (CKm) at the end of :

	6 th plan	7 th plan	8 th plan	9 th plan	10 th plan	2 nd year of 11 th Plan
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765 kV

Central	0	0	0	751	1775	2709
State	0	0	0	409	409	409
Total	0	0	0	1160	2184	3118

\pm 500 kV HVDC

Central	0	1634	1634	3234	4368	5668
State	0	0	0	1504	1504	1504
Total	0	1634	1634	4738	5872	7172

400 kV

Central	1831	13068	23001	29345	50992	61800
State	4198	6756	13141	20033	24730	27696
Total	6029	19824	36142	49378	75722	89496

220 kV

Central	1641	4560	6564	8687	9444	10066
State	44364	55071	73036	88306	105185	112894
Total	46005	59631	79600	96993	114629	122960

Growth in Sub-Stations (MVA) at the end of :

	6 th plan	7 th plan	8 th plan	9 th plan	10 th plan	2 nd year of 11 th Plan
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765 kV

Central	0	0	0	0	0	4500
State	0	0	0	0	0	0
Total	0	0	0	0	0	4500

**± 500 kV HVDC Converter/BTB
Station**

Central	0	0	0	3500	6500	7000
State	0	0	0	1700	1700	1700
Total	0	0	0	5200	8200	8700

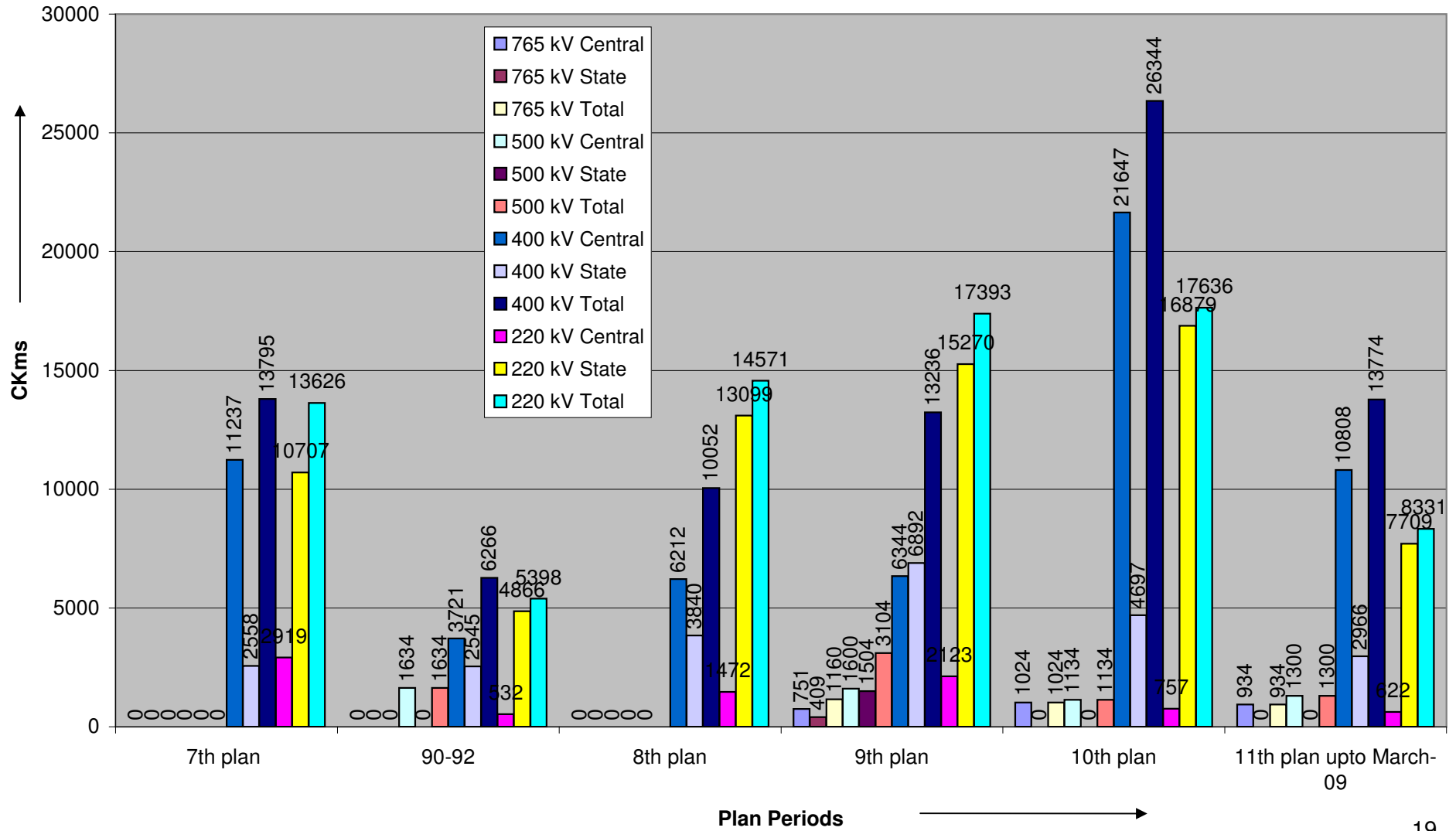
400 kV

Central	715	6760	17340	23575	40455	55760
State	8615	14820	23525	36805	52487	55442
Total	9330	21580	40865	60380	92942	111202

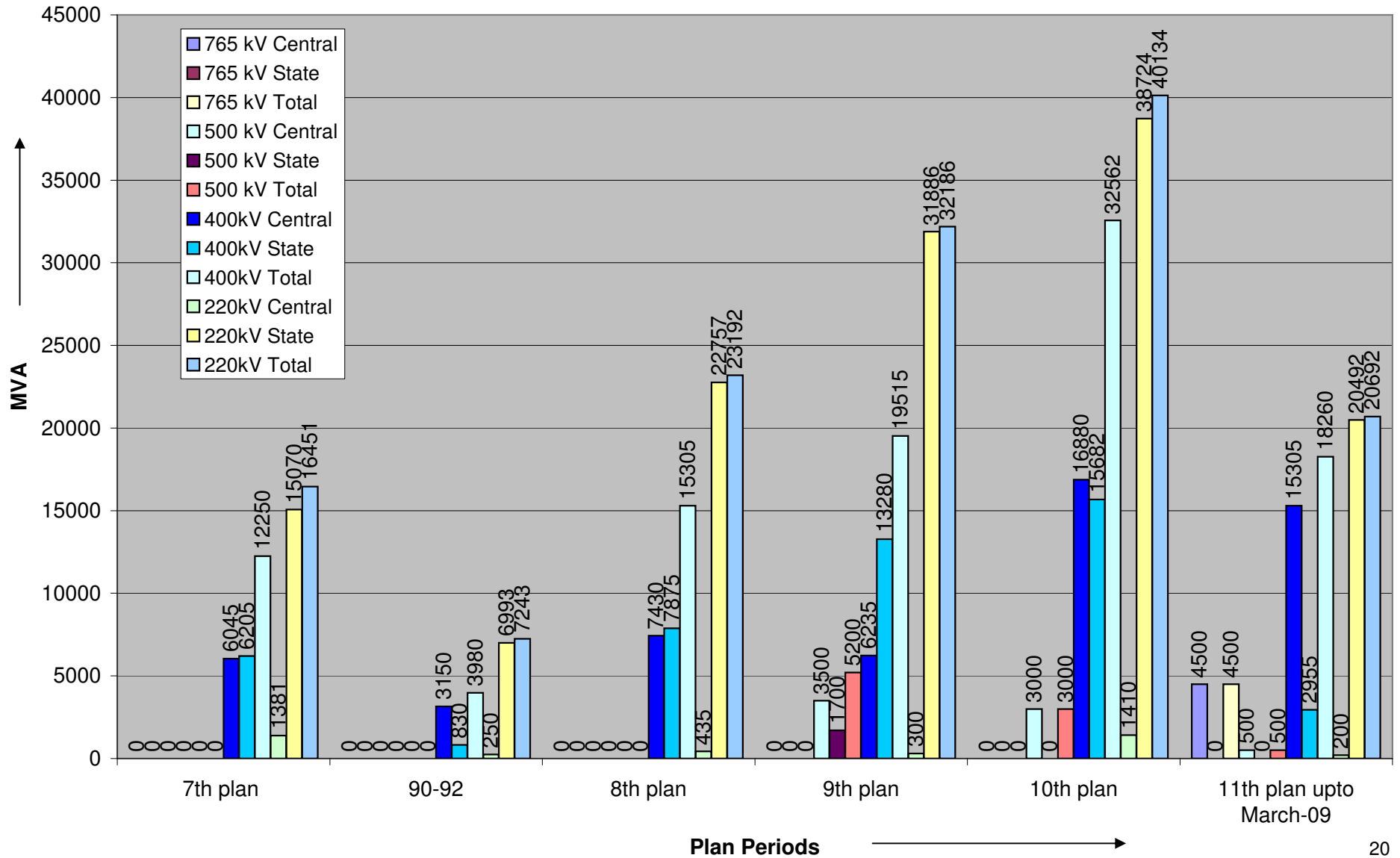
220 kV

Central	500	1881	2566	2866	4276	4476
State	36791	51861	81611	113497	152221	172713
Total	37291	53742	84177	116363	156497	177189

Growth in Transmission Lines (CKm) During Various Plan Periods



Growth in Sub-Stations (MVA) During Various Plan Periods



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		
Program	Achievement	Program	Achievement	Program	Achievement	Program	Achievement	Program	Achievement	Program	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	898	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	
12. Addition during 11th plan:												
2007-08	4894	5688	2013	1259	6907	6947	224	381	5224	3779	5448	4160
2008-09	5658	5120	2367	1707	8025	6827	817	241	5676	3930	6493	4171
Total	10552	10808	4380	2966	14932	13774	1041	622	10900	7709	11941	8331
13. Total at the end of 2nd year of 11th plan:												
	61800		27696		89496		10066		112894		122960	

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	
Program	Achievement	Program	Achievement	Program	Achievement	Program	Achievement	Program	Achievement	Program	Achievement
1. Transmission lines existing at the end of 7th plan											
	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
91-92	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1634	1634	0	0	1634
3. Total at the end of 1991-92:											
	0	0	0	0	0	0	1634	1634	0	0	1634
4. Addition during 8th plan:											
92-93	0	0	0	0	0	0	0	0	0	0	0
93-94	0	0	0	0	0	0	0	0	0	0	0
94-95	0	0	0	0	0	0	0	0	0	0	0
95-96	0	0	0	0	0	0	0	0	0	0	0
96-97	20	0	0	0	20	0	0	0	360	0	360
Total	20	0	0	0	20	0	0	0	360	0	360
5. Total at the end of 8th plan:											
	0	0	0	0	0	0	1634	1634	0	0	1634
6. Addition during 9th plan:											
97-98	0	0	0	0	0	0	0	0	900	369	900
98-99	0	0	405	318	405	318	0	0	1135	1135	1135
99-2000	325	325	91	91	416	416	0	0	0	0	0
2000-01	285	375	0	0	285	375	0	0	0	0	0
2001-02	224	51	0	0	224	51	1600	1600	0	0	1600
Total	834	751	496	409	1330	1160	1600	1600	2035	1504	3635
7. Total at the end of 9th plan:											
	751	751	409	409	1160	1160	3234	3234	1504	1504	4738
8. Addition during 10th plan:											
2002-03	173	33	0	0	173	33	1134	1134	0	0	1134
2003-04	149	102	0	0	149	102	0	0	0	0	0
2004-05	71	22	0	0	71	22	0	0	0	0	0
2005-06	105	287	0	0	105	287	0	0	0	0	0
2006-07	660	580	0	0	660	580	0	0	0	0	0
Total	1158	1024	0	0	1158	1024	1134	1134	0	0	1134
9. Total at the end of 10th plan:											
	1775	1775	409	409	2184	2184	4368	4368	1504	1504	5872
10. Addition during 11th plan:											
2007-08	160	370	0	0	160	370	0	120	0	0	120
2008-09	653	564	0	0	653	564	1250	1180	0	0	1250
Total	813	934	0	0	813	934	1250	1300	0	0	1250
11. Total at the end of 2nd year of 11th plan:											
	2709	2709	409	409	3118	3118	5668	5668	1504	1504	7172

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		
Program	Achievement	Program	Achievement	Program	Achievement	Program	Achievement	Program	Achievement	Program	Achievement	
1. Sub-Station (MVA) existing at the end of 6th plan												
	715		8615	0	9330		500	0	36791	0	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	
12 Addition during 11th plan:												
2007-08	8940	8375	3695	1890	12635	10265	400	200	10620	9458	11020	9658
2008-09	6615	6930	3270	1065	9885	7995	1110	200	13833	11034	14943	11234
Total	15555	15305	6965	2955	22520	18260	400	200	24453	20492	25963	20692
13. Total at the end of 2nd year of 11th plan:												
	55760		55442		111202		4476		172713		177189	

**TRANSFORMATION CAPACITY (MVA)/(MW) ADDITIONS OF 765 kV, +/- 500 KV
HVDC CONVERTER/BACK-TO-BACK SUB-STATIONS (MW) IN INDIA**

765 KV SUB-STATION (MVA)		STATE		TOTAL	
Program	Achievement	Program	Achievement	Program	Achievement
1. Sub-Station (MVA) existing at the end of 10th plan					
	0		0		0
2 Addition during 11th plan:					
2007-08	2169	4500	0	0	2169 4500
2008-09	0	0	0	0	0 0
Total	2169	4500	0	0	2169 4500
3. Total at the end of 2nd year of 11th plan:					
		4500		0	4500

+/- 500 KV HVDC CONVERTER/ BTB STATIONS		STATE		TOTAL	
Program	Achievement	Program	Achievement	Program	Achievement
1. Sub-station (MW) existing at the end of 8th plan					
	0		0		0
2. Addition during 9th plan:					
97-98	3500	3500	0	0	3500
98-99	0	0	1700	1700	1700 1700
99-2000	0	0	0	0	0 0
2000-01	0	0	0	0	0 0
2001-02	0	0	0	0	0 0
Total	3500	3500	1700	1700	5200 5200
3. Total at the end of 9th plan:					
		3500		1700	5200
4. Addition during 10th plan:					
2002-03	2500	1500	0	0	2500 1500
2003-04	2000	1000	0	0	2000 1000
2004-05	500	500	0	0	500 500
2005-06	0	0	0	0	0 0
2006-07	0	0	0	0	0 0
Total	5000	3000	0	0	5000 3000
5. Total at the end of 10th plan:					
		6500		1700	8200
6 Addition during 11th plan:					
2007-08	0	500	0	0	0 500
2008-09	0	0	0	0	0 0
Total	0	500	0	0	0 500
7. Total at the end of 2nd year of 11th plan:					
		7000		1700	8700

	Total		606		
GUJARAT (GETCO) :					
1	Mundra-Dehgam	D/C	858	Jan-09	
2	TPGL-Pirana	D/C	220	Mar-08	Mar-09
3	LILO of one Ckt of Asoj-Amreli at Chorania	D/C	39	Dec-07	Aug-08

Total 259

MADHYA PRADESH (MPPTCL)

1	LILO of Birsinghpur - Damoh D/C at Damoh	D/C	26	Jun-07	Aug-08
2	Interconnector of Birsinghpur-Katni-Damoh at Birsinghpur	D/C	1	Mar-08	Aug-08
3	Interconnector of Birsinghpur-Katni-Damoh at Katni	D/C	2	Mar-08	Aug-08

Total 29

MAHARASHTRA (MSEB) :

1	Dabhol-Nagothane Ckt.-II	S/C	136	Feb-06	Oct-08
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Total 136

Total 400 kV WR 1030

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	LILO of Srisailam-Nunna at VTPS	D/C	20	Sep-08	
2	LILO of Ramagundam -Ghanapur at Malkaram	D/C	54	Sep-08	
3	LILO of Ramagundam -Ghanapur at Gazwel	D/C	21	Dec-07	Aug-08
4	LILO of Srisailam-Vijayawada at Narasaraopet	D/C	5	Dec-07	Mar-09
5	Ramagundam(NTPC)-Ditchpally	S/C	171	Jun-07	May-08

Total 271

Karnataka(KPTCL)

1	BTPS- Hiriyur	D/C	302	Dec-08	
2	LILO of RTPS- Guttur at Thorangallu JSW S/S	D/C	15	Dec-08	

Total 317

Total 400 kV SR 588

EASTERN REGION (ER) :

ORISSA (OPTCL) :

1	Meramundali-Mendhasal (Chandaka)	D/C	200	Jun-02	Aug-08
2	Meramundali-Duburi	D/C	192	Sep-02	Dec.08

Total 392

WEST BENGAL (WBSETC) :

1	Sagardighi - Parulia (PGCIL)	D/C	127	Dec-08	
2	LILO of Farakka-Subhashgram at Sagardighi	D/C	13	Jul-08	

Total 140

Total 400 kV 532

-- **Total 400 kV 3807**

-- **Total 400 kV CS &SS 9977**

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

A. International Lines

1	Kabul-Pul-e-Khumri (Afghanistan)	D/C	404	Oct-08	
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Total (International Lines) 404

B. National Lines

1	LILO of one ckt. of Tanakpur-Bareilly at Sitarganj		44	Jun'08	
2	220KV Vapi (PG) - Kharadpada (DNH) D/C line		34	Jun'08	
3	220KV Vapi (PG) - Magarwada D/C line		31	Apr-08	

Total 109

DAMODER VALLEY CORPORATION (DVC) :

1	Mejia-Gola - Ramgarh	D/C	406	Dec.05	Dec.08
2	LILO of Kalyaneshwari-CTPS at Dhanbad	2xD/C	8	Mar-09	
3	LILO of CTPS-MTPS ckt 1 at Kalyaneshwari	D/C	89	Oct-08	
4	LILO of CTPS-MTPS ckt 2 at Kalyaneshwari	D/C	90	Oct-08	
5	Kalyaneshwari - Pithakari	D/C	8	Oct-08	

Total 601

Total (CS) 220 kV 1114

220 kV STATE SECTOR :

NORTHERN REGION (NR) :

CHANDIGARH :

1	Ganguwal-Mohali (2nd Ckt. Stringing) (Incl of re-alignment)	S/C	72.4	Jun-06	Sep-08
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	Total		72.4		
DELHI (DTL) :					
1	Gazipur-Noida	D/C	16	Mar-04	
2	LILO of Bawana-Najafgarh at Khanjawla	2XD/C	12	Jun-03	
3	Papankalan-I- Papankalan-II	D/C	11	Mar-06	
4	LILO of Bawana - Narela at Bawana DSIDC	2XD/C	14	Dec-05	
5	U/G of Maharani Bagh(PG)-Masjid Moth	D/C	19	Mar-08	Mar-09
	Total		72		
HIMACHAL PRADESH (HPSEB) :					
1	Kashang-Bhaba	D/C	76	Mar-07	Sep-08
2	Khodri-Majri (2 nd circuit)	S/C on D/C	35	Mar-08	Mar-09
	Total		111		
HARYANA (HVPN) :					
1	YTPP-Abdullapur	D/C	56	Mar-08	Oct-08
2	YTPP-Nilokheri	D/C	104	Mar-08	Oct-08
3	Nilokheri-Karnal	S/C	19	Mar-08	Jun-08
4	Badshahpur – Rewari (2nd Ckt) Stringing	S/C	51	Jun-06	Aug-08
5	Badshahpur-IMT Manesar 2 nd Ckt Stringing	S/C	12	Mar-07	Sep-08
6	LILO of 2nd ckt of Narwana-Fatehabad at Bhuna	D/C	16	Dec-07	Aug-08
7	Hissar (Mayyar)-Isharwal	D/C	90	Apr-08	Aug-08
8	LILO Narwana-Fatehabad & Fatehabad-Sirsa at Fatehabad (PG)	D/C	5	Dec-07	Aug-08
9	Cheeka-Durala	D/C	106	Nov-08	
10	LILO one ckt Shahbad-Pehova at Durala	D/C	6	Nov-08	
	Total		465		
PUNJAB (PSEB) :					
1	GHTP-Himatpura D/C	D/C	70	Dec.07	Sept.08
2	GNDTP-Muktsar (2nd ckt)	S/C on D/C	53	May-07	Sep-08
3	LILO one ckt of Lalton- Jagron at Ludhiana (PG)	D/C	4	Jun-08	
4	LILO of Patti-Verpal at Tarn-Taran	S/C	20	Mar-06	Mar-09

5	Ranjit Sagar Dam – Sarna (circuit 4)	D/C	30	Jun-05	Jun-08
6	Khasa – Amritsar (at Balachak (PGCIL))	D/C	44	Jun-05	Jul-08
7	LILO of Malerkotla – Lalton Kalan S/C at Pakhowal	D/C	2	Mar-06	Dec-08
8	LILO of Mohali-I – Dera Bassi at Mohali-II	D/C	1	Mar-07	Sep-08
9	LILO of Gobindgarh-I - Gobindgarh-II at Amloh Road Gobindgarh	D/C	2	Mar-07	Jun-08
10	Humbran–FZR Rd Ludhiana	D/C	30	Mar-07	Aug-08
11	Phagan Majra (400 kV) - F.P.Nabha	D/C	65	Mar-08	Oct-08
12	Mohali-Dera Bassi (2nd ckt stringing)	S/C on D/C	29	Jun-07	Sep-08
13	LILO of one circuit of GGSSTP – Mohali-I at Kharar	D/C	10	Dec-07	Dec-08
14	Nalagarh-Mohali -I	D/C	100	Jul-07	Aug-08
15	LILO of one ckt. of Moga- Mukatsar DC at Sadiq	D/C	50	Mar-09	
16	Moga (400 KV) - Baghapurana	D/C	36	Mar-09	
17	Mukatsar- Malout SC on DC	S/C	32	Mar-09	
18	Moga (400 KV)- Jagraon	D/C	1	Jul-08	

Total 579

Rajasthan

1	Giral TPS-Barmer 2nd S/C	S/C	40	Mar-07	Aug.08
2	Dhorimanna-Bhinmal S/C	S/C	92	Jun-07	Aug.08
3	Giral TPS-Balotra S/C	S/C	100	Mar-09	
4	Barsinghsar -Khinvsar S/C	S/C	100	Mar-08	Aug.08
5	LILO Bhilwara-Kankroli at Kankroli(PG)	S/C	9.5	Mar-08	May-08
6	LILO Kota-Bhilwara at Kota (PG)	D/C	4	Mar-08	Aug.08
7	Kankroli (PG)-Kankroli	S/C	22	Apr-08	Aug.08
8	Chhabra TPS-Jhalawar S/C	S/C	142	Sep-08	
9	LILO Bhilwara-Pali at Bhilwara (400 kV)	D/C	10	Sep-08	
10	LILO Bhilwara-Bali at Bhilwara (400 kV)	D/C	10	Sep-08	
11	Hindaun (400 kV)-Hindaun (220 kV)	D/C	16	Sep-08	

12	Hindaun (400 kV)-Mandawar	D/C	46	Sep-08	
13	Chhabra-Baran-Dahra	D/C	110	Sep-08	
14	LILO of Chhabra-Baran-Dahra at Kawai	D/C	2	Jul-08	
15	LILO Bikaner-Sridungargarh at Bikaner (400 kV)	D/C	20	Oct-08	
16	LILO Bikaner- Nagaur at Bikaner (400 kV) D/C	D/C	20	Oct-08	
17	STPS-Bhadra S/C	S/C	114	Oct-08	
18	Opening of one ckt of Heerapura-Bassi line and connecting Sanganer & Phulera	S/C	59	Mar-04	May-08
19	LILO of Jaipur – Kota at Duni	D/C	6	Mar-08	Aug-08
20	Bhiwadi(Khushkhera)-Neemrana	S/C	58	Mar-08	Aug-08
21	Kankroli (PG)-Debari	S/C	70	Mar-08	Sep-08
22	LILO one ckt Bassi-Heerapura at Jagatpura	D/C	22	Mar-09	Dec-08
23	Giral LTPS- Balotra	S/C	100	Mar-09	
24	LILO Heerapura-Kukas at VKIA	D/C	2	Jul-08	
25	LILO Bhiwali-Neemrana at Khushkhera	D/C	8	Dec-08	
26	LILO Alwar-Bhiwadi at Khushkhera	D/C	5	Dec-08	

Total 1188

UTTAR PRADESH (UPPCL) :

1	Matore(PG)-Nehtaur	S/C	73	Dec-07	Jun-08
2	Nanauta-Muzaffarnagar	S/C	65	Apr-08	Mar-09
3	Muzaffarnagar-Shamli	S/C	65	Mar-08	Dec-08
4	LILO of Saharanpur-Shamli at Nanouta	D/C	6	Apr-08	Mar-09
5	Metore(Meerut) (PG)-Gajraula	S/C	87	Apr-08	Jun-08
6	LILO of Moradabad-NAPP at Sambhal	D/C	4	Mar-08	Mar-09
7	Loni-Muradnagar(400 kV S/S)	D/C	27	Mar-08	Jun-08
8	LILO of Khurja-Muradnagar at Dadri	D/C	23	Mar-08	Sep-08
9	LILO of Khurja-Muradnagar at Sikandrabad	D/C	38	Jun-08	Sep-08
10	LILO of Sarojininagar-Chinhat at Gomtinagar	D/C	6	Jun-08	Mar-09
11	Bhauti(PG)-Orai	S/C	90	Jul-08	Mar-09
12	LILO of Paricha-Safai at Bharthana	D/C	5	Sep-08	
13	LILO of Paricha-Orai at Jhansi	D/C	42	Sep-08	

14	Loni-Muradnagar	D/C	27	Sep-08	
	Total		558		

UTTARAKHAND (PTCUL)

1	Rishikesh-Maneribali Stage-II (3rd ckt)	S/C	79	Dec-05	Oct-08
2	LILO of Maneri I-Rishikesh at Maneri II	D/C	4	Mar-07	May-08
3	Kashipur - Barheni	D/C	52	Dec-06	Aug-08
4	Barheni - Pantnagar	S/C	35	Dec-06	Aug-08
	Total		170		

JAMMU & KASHMIR (J&K) :

1	LILO of Zainkote – Wagoora at Budgam	D/C	8.6	Mar-09	
2	Barn-Kishenpur	D/C	74.8	Mar-08	May-08
3	Gladni-Udhampur	S/C	48	Apr-08	Mar-09
4	Thein (RSD)-Hiranagar (2nd ckt)	S/C	40	Mar-08	Mar-09
	Total		171		

Total 220 kV NR 3386

WESTERN REGION (WR) :

CHATTISGARH :

1	JTPS-Raigarh	D/C	114	Jun-07	Oct-08
2	NSPCL-Gurur (CSEB)	S/C	20	Oct-07	Apr-08
3	NSPCL-BSP MSDS-6	D/C	8	May-08	
4	NSPCL-BSP MSDS-5	D/C	7	Sep-08	
5	LILO of Raipur(PG)- Suhela (Bhatapara) at Doma	D/C	42	Mar-08	Mar-09
6	Bhatapara 400 kV (PGCIL)–Bhatapara (Suhela) (New)	S/C	27	Dec-07	Oct-08
7	Raigarh 400 kV (PGCIL) S/S – Raigarh	S/C	21	Dec-07	Sep-08
8	Khedamara- Rajnandgaon	D/C	53	Dec-08	
9	LILO of Korba-Siltara at Mopka	D/C	24	Apr-08	Oct-08
	Total		316		

GUJARAT(GETCO) :

1	Mangrol - Mobha	D/C	218	Oct-08	
2	Akhakol-Puna	D/C	72	Apr-07	May-08
3	Akhakol-Bhatar	D/C	136	Apr-07	May-08
4	Akhakol-Ved	D/C	52	Apr-07	Jun-08

5	Akhakhhol-Kim	D/C	8	Apr-07	Apr-08
6	Bardoli-Chikali	D/C	96	Dec-07	Sep-08
7	LILO of one Ckt of Anjar - Panadhro at Kukma	D/C	5	Mar-08	May-08
8	LILO of Vav-Jagadia on Ckt-1 at Kosamba	D/C	10	Mar-08	Mar-09
9	LILO of 2nd ckt of Ukai(T)-Vav at Bardoli	D/C	10	Mar-08	Aug-08
10	Raipur - Dudhrej	D/C	20	Mar-09	
11	Mundra (Adani) -Nani khakher	D/C	33	Jul-08	
12	Chorania - Bala	D/C	59	Dec-08	
Total			719		

GOA :

1	LILO of one ckt of Kolhapur - Ponda at Amona	D/C	3	Sep-08	
Total			3		

MADHYA PRADESH (MPPTCL) :

1	LILO of Birsinghpur-Satna at Amarkantak	D/C	88	Mar-07	Sep-08
2	LILO of Birsinghpur-Rewa for Sidhi	D/C	118	Mar-07	Sep-08
3	LILO of both ckts of Bhopal-Itarsi at Itarsi	2xD/C	2	Apr-07	Apr-08
4	LILO of Barwaha-Nepanagar (Khandwa) at Omkareshwar	2xD/C	91	Apr-07	Jun-08
5	LILO of Gwalior-Malanpur at Gwalior 400 kV (PG)	D/C	17	Mar-08	Sep-08
6	Shivpuri-Sabalgarh	D/C	200	Apr-08	Nov-08
7	LILO of 1st Ckt of Itarsi-Bhopal at Mandideep	D/C	12	Mar-08	Jun-08
8	LILO of 1st Ckt Damoh-Tikamgarh at Damoh(400 kV)	D/C	2	Mar-08	Aug-08
9	LILO of 1st Ckt Jabalpur-Itarsi at Piparia	D/C	8	Mar-08	Mar-09
10	Seoni (PG)-Chindwara	D/C	140	Apr-08	Dec-08
11	Pitampur-Raigarh (2nd) Ckt	S/C	69	Apr-08	Jun-08
12	LILO of both circuits of Pitampur-Raigarh D/C at Rajgarh(PG)	2xD/C	92	Apr-08	Aug-08
13	LILO of 1st Ckt of Damoh - Bina D/C at Sagar	D/C	15	Jun-07	Sep-08
14	LILO of 2nd Ckt of Damoh - Bina D/C at Sagar	D/C	10	Jun-07	Sep-08
15	LILO of Jabalpur-Itarsi(2nd ckt) at Narsinghpur	D/C	3	May-08	Sep-08
16	Chhindwara-Betul D/C	D/C	270	Feb-09	

17	Chegaon-Nimrani D/C	D/C	220	Feb-09	
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	Total		1357		
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MAHARASHTRA (MSETCL) :

1	LILO Tarapur-Borivli at Boisar II	D/C	16	Mar-07	Aug-08
2	Boisar (PG)-Wada S/C on D/C	S/C	57	Mar-07	Oct-08
3	Kolhapur II-Kolhapur-III interconnector	S/C on D/C	18	Mar-08	Oct-08
4	LILO of Pune Ring Main at Khadakwasala S/S	D/C	24	Mar-09	
5	Theur - Magarpatta	D/C	24	Mar-09	
6	Pune (400kVPG) - Talegaon S/S	D/C	20	Mar-09	
7	LILO of Pune Ring Main at Talegaon S/S	D/C	10	Mar-09	
8	Paras - Balapur MIDC	M/C	24	Mar-09	

	Total		193		
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	Total 220 kV WR		2588		
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SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Bhimavaram-Gudivada	D/C	122	Sep-07	Mar-09
2	Vijayawada TPS-Tallapally	D/C	130	Jun-08	Dec-08
3	Ramagundam- Bellampalli S/C on D/C	S/C	43	Mar-08	Dec-08
4	Boddepallipeta-Tekkali S/C on D/C	S/C	44	Dec-07	Sep-08
5	Vetloor- Wanaparthy	D/C	40	Jun-08	Mar-09
6	Kalpaka S/S - Ms. Brandix	D/C	42	Jun-08	Dec-08
7	Gajwel -Kamareddy S/C on D/C	S/C	67	Jun-08	Sep-08
8	Oglapur 400kV PGCIL-Nagaram	D/C	25	Mar-09	

	Total		513		
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KARNATAKA (KPTCL) :

1	RTPS - Raichur	D/C	40	Dec-07	Oct-08
2	Chikkodi-Kudachi	D/C	70	Sep-06	Dec-08
3	LILO of Hoody-Kolar at Hoskote	D/C	32	Sep-07	Sep-08
4	Hiriyur 400kV S/S- Gowribidanur	D/C	242	Mar-08	Mar-09
5	Bastipura - Kadakola	D/C	54	Mar-08	Mar-09
6	Hiriyur 400kV S/S- Tallak	D/C	80	Jun-08	Dec-08
7	Bidadi- Kothipura(Ramanagar) S/S	M/C	36	Jan-09	

8	LILO of Mahalingar-Hubli line at Soundatti	D/C	18	Dec-08	
9	Guruvanyankere-Puttur	D/C	48	Sep-08	
10	Indi- Basavanabagevadi	D/C	160	Sep-08	
11	LILO of Mahalingpur- Kudachi at Athani	D/C	48	Aug-08	Dec-08
12	LILO of SMG- Mysore at Kadavinakote	D/C	33	Aug-08	
Total			861		

KERALA (KSEB) :

1	LILO of Kayamkulam-Edaman (ckt-2) at Edappon	D/C	17	Mar-08	Mar-09
2	Tap line to Vadakara S/S	D/C	2	Mar-08	Aug-08
4	LILO both ckts of Kalamassery-Brahmapuram at Pallikkara (Kochi East)	M/C	20	Dec-07	Mar-09
5	Areacode(PGCIL)400kV S/S- Areacode S/S	M/C	1	Dec-07	Aug-08
Total			40		

TAMILNADU (TNEB) :

1	Valuthur - Paramakudi S/C on D/C	S/C	50	Dec-07	Sep-08
2	Tirunelveli 400kVS/S - Udayathur	S/C on D/c	67	Dec-08	
3	Arasur 400kV S/S- Arasur 230kV S/S	D/C	38	Sep-08	
4	Arasur 400kV S/S- Palladam	S/C on D/c	55	Mar-09	
5	Arasur 400kV S/S- Karamadai	S/C on D/c	48	Mar-09	
6	S.P.Koil-Tharamani (Perambakkam-Tharamani portion)	S/C	45	Jun-06	Sep-08
7	LILO of Neyveli TS-II-Neyveli Zero Unit at Cuddalore	D/C	28	Jun-06	Sep-08
8	Sriperumbudur -Korattur (Changing of conductor)	S/C	20	Sep-06	Sep-08
9	Alamathy S/S - Manali	D/C	50	Jun-07	Sep-08
10	LILO of Pugalur-Checkanoorani at Renganathapuram	D/C	32	Jun-07	Apr-08
11	Alamathy S/S - Avadi (cable)	D/C	35	Sep-07	Sep-08
12	Malumichampatty- Common point	D/C	81	Jun-08	Dec-08
13	Common point - Myvadi S/S S/C on D/C	S/C	17	Mar-08	Dec-08
14	Common point -Ponnapuram S/C on D/C	S/C	17	Dec-08	
15	Kayathar-Chekkanoorani	D/C	244	Dec-07	Jul-08

16	LILO of S P Koil- Tharamani II at Kalivanthapattu 400kV S/S	D/C	14	Jul-08
17	Sriperumbudur 400 kV S/S-Nokia	D/C	20	Sep-08
	Total		861	
	Total 220 kV SR		2275	

EASTERN REGION (ER) :

ORISSA (OPTCL) :

1	Budhipadar-Bolangir	D/C	358	Dec-08
2	Mendhasal-Bidanasi	D/C	62	Aug-08
3	Duburi-Paradeep	D/C	226	Aug-08
4	Padmanavpur - Balasore	D/C	44	Aug-08
	Total		690	

WEST BENGAL (WBSETC) :

1	Santaldih TPS-Bishnupur	D/C	223	Oct-08
2	LILO of Aramgarh-Rishra at Singur	D/C	20	Aug-08
3	Jeerat-Rishra	D/C	133	Aug-08
	Total		376	
	Total 220 kV ER		1066	

NORTH-EASTERN REGION (NER) :

ASSAM (ASEB) :

1	Kathalguri-Tinsukia (2nd Circuit)	S/C	50	Oct-05	Sep-08
	Total		50		
	Total 220 kV NER		50		
	Total 220 kV SS		9365		
	Total 220 kV CS & SS		10479		

LIST OF SUB-STATIONS FOR 2008-09

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

400 kV CENTRAL SECTOR (CS) POWERGRID(PGCIL)

1	Ludhiana Sub-station	400/220	2x315	315	Mar'08	July'08
2	Kankroli S/S	400/220	3x315	315	Mar.'08	Sep.'08
3	Kota S/S	400/220	2x315	315	Mar.'08	Dec.'08
4	2nd ICT of Rajgarh S/S	400/220	315	315	Feb'07	Sep.'08
5	2nd ICT of Bhatapara S/S	400/220	315	315	Aug'07	Oct'08
6	Itarsi S/S Aug.	400/220	315	315	Nov'07	Apr'08
7	Wardha Sub station	400/220	2x315	630	Jun'08	Dec.'08
8	Damoh S/S	400/220	2x315	630	Aug'08	
9	Tirunelveli S/S	400/220	2x315	315	May'07	
10	Muvattupuzha	400/220	2x315	630	Nov'08	
11	Ext. Udumalpet (PG)	400/220	1x315	315	Dec'07	Nov'08
12	Ext. Trivandrum (PG)	400/220	1x315	315	Nov'08	
13	Melakottaiyur S/Stn.	400/220	630	315	May'08	
14	Kozhikode S/Stn.	400/220	630	315	Dec'08	
15	Pugalur S/S	400/220	2x315	630	Mar'09	
16	Baripada Sub-station Extn.	400/220	315	315	May'08	Apr'08

Total 400 kV CS

6300

400 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

HIMACHAL PRADESH (HPSEB) :

1	Kunihar (1st)	400/132	1x315	315	Jul-06	Mar-09
2	Kunihar (2nd)	400/132	1x315	315	Jul-06	Mar-09
				630		

UTTAR PRADESH (UPPCL) :

	Sarnath Extn.2x(160-100)	400/220	120	120	Mar-08	Mar-09
				120		
Total 400 kV NR				750		

WESTERN REGION (WR) :

Chhattisgarh

1	NSPCL (2x315 MVA)	400/220	630	630	Oct.07	Sep. 08
Total				630		

GUJARAT (GETCO) :

1	Rajkot(Hadala) ICT-II	400/220	1x315	315	Mar-09	
Total				315		

Total 400 kV WR 945

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Gajwel	400/220	2x315	315	Dec-07	Sep-08
Total				315		

KARNATAKA (KPTCL) :

1	Talaguppa (3rd)	400/220	1x315	315	Sep-07	Jun-08
Total				315		

Total 400 kV SR 630

EASTERN REGION (ER) :

ORISSA

1	Menddhsal (2x315)	400/220	630	315	May-08	Mar-09
2	Dubri 400/220 (2x315)	400/220	630	315	May-08	Mar-09
Total				630		

WEST BENGAL (WBSEB) :

1	Durgapur(6x105)	400/220	630	630	Sep-08	
				630		

Total 400 kV ER 1260

Total 400 kV SS	3585
Total 400 kV CS &SS	9885

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

A. International S/S

1	Chimtala (Afghanistan)	220/110	1x160	160	Aug-08
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B. National S/S

1	Sitarganj Sub station	220/132	2x100	200	Mar'07	Sep.'08
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Total 360

DAMODER VALLEY CORPORATION (DVC) :

1	Barjora Extn (1x100)	220/33	100	100	Sep-08	
2	Barjora Extn (2x150)	220/132	300	150	Sep-08	Dec-08
3	Dhanbad(2x150+2x50))	220/132	400	300	Mar-09	

Total 550

Total 220 kV CS 910

220 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

CHANDIGARH (CHND) :

1	Manimajra (Chandigarh)	220/66	1x100	100	Apr-07	Sep-08
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Total 100

DELHI (DTL) :

1	Masjid-Moth (Sirifort)	220/33/11	1x100	100	Mar-06	Mar-09
2	Shalimar Bagh (3rd)	220/33/11	1x100	100	Mar-06	Mar-09
3	Bawana DSIDC	220/66	2x100	200	Apr-06	Sep-08
4	Gopalpur (4th)	220/33	1x100	100	Mar-07	Sep-08
5	Vasant Kunj (3rd)	220/66	1x100	100	Mar-07	Sep-08
6	GT S/S (Aug)	220/33	2x160	320	Mar-07	Sep-08
7	South of Wazirabad (1x100 MVA-4 th ICT)	220/66	1x100	100	Mar-08	Sep-08

Total 1020

HIMACHAL PRADESH (HPSEB) :

1	Pong (Aug) (40-20)	220/66	1x20	20	Mar-07	Sep-08
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2	Jassure S/S 1x25 MVA	220/33	1x25	25	Mar-08	Sep-08
Total				45		

HARYANA (HVPN) :

1	Salempur (2nd ICT)	220/132	1x100	100	Mar-08	May-08
2	IMT Manesar (2nd)	220/66	1x100	100	Mar-06	Mar-09
3	Nilokheri S/S (2x100 MVA)	220/132	2x100	200	Mar-08	Jul-08
4	Bhuna (2x 100 MVA)	220/132	2x100	200	Dec-07	Sep-08
5	Isharwal	220/132	1x100	100	Jun-08	Sep-08
6	Durala	220/132	2x100	200	Oct-08	
7	Pehowa Aug (100-50)	220/132	50	50	Dec-08	
8	Nissing Aug	220/132	100	100	Dec-08	
9	Ballabgarh Aug	220/132	100	100	Jul-08	
10	Yamunanager(Jorian) 3rd ICT	220/132	1x100	100	Sep-08	
11	Dautabad 2nd ICT	220/66	1x100	100	Jul-08	
12	Palli (Aug.)	220/66	1x100	100	Sep-08	
Total				1450		

PUNJAB (PSEB) :

1	Himatpura S/S	220/66	100	100	Dec.07	Mar-09
2	Mohali-II	220/66	100	100	Mar-06	Sep-08
3	Kartarpur (Aug) (2nd)	220/66	100	100	Mar-06	Aug-08
4	Pakhowal (new)	220/66	100	100	Mar-06	Mar-09
5	Dhuri (Aug) (2nd)	220/66	100	100	Mar-06	Jun-08
6	Amloh Rd Gobindgarh	220/66	100	100	Mar-07	Jun-08
7	Ferozepur Road Ludhiana	220/66	100	100	Mar-07	Dec-08
8	Kharar	220/66	100	100	Mar-07	Dec-08
9	GHTP Aug. (1x100-1x50)	220/66	50	50	Mar-07	Sep-08
10	Nabha	220/66	100	100	Aug-07	Sep-08
11	Rajla (Aug)	220/66	100	100	Sep-08	
12	Majitha (U/G)	220/66	100	100	Mar-09	
Total				1150		

RAJASTHAN (RVPN) :

1	Baran S/S	220/132	100	100	Sep-08	
2	Bhadra (Hanumangarh)	220/132	100	100	Oct-08	

3	Kishangarh (Ajmer)	220/132	100	100	Mar-09
4	Kawai	220/132	100	100	Jul-08

400

UTTAR PRADESH (UPPCL) :

1	Nanauta (160+100)	220/132	260	160	Mar-08	Feb-09
2	Sambhal, Muradabad	220/132	2x100	100	Dec-07	Feb-09
3	Gajraula	220/132	2x100	100	Mar-08	Feb-09
4	Loni	220/132	2x100	100	Dec-07	Sep-08
5	Dadri	220/132	2x100	200	Mar-08	Sep-08
6	Sikandrabad	220/132	2x100	100	Dec-07	Sep-08
7	Muzaffarnagar (160+100)	220/132	260	100	Mar-08	Dec-08
8	Dohna, Bareilly	220/132	2x100	100	Mar-08	Sep-08
9	Sohawal	220/132	2x100	100	Mar-08	Dec-08
10	Atrauli Extn. 2	220/132	1x100	100	Mar-08	Jun-08
11	Bharthana	220/132	2x100	100	Dec-07	Sep-08
12	Azamgarh Aug.2x(160-100)	220/132	120	120	Mar-08	Sep-08
13	Basti Aug. (160-100)	220/132	60	60	Mar-08	Dec-08
14	Nehtaur Aug. (160-100)	220/132	60	60	Mar-08	Mar-09
15	Shahjahanpur Extn. (160-60)	220/132	60	60	Feb-09	
16	Gaumti Nagar	220/132	3x63	63	Feb-09	

Total

1623

UTTARAKHAND (PTCUL) :

1	Dehradun	220/132	2x100	100	Jun-06	Mar-09
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Total

100

JAMMU & KASHMIR (J&K):

1	Barn	220/132	2x160	320	Mar-09
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Total

320

Total 220 kV NR

6208

WESTERN REGION (WR) :

CHHATTISGARH (CSEB) :

1	Suhela (Bhatapara)	220/132	1x160	160	Apr-07	Sep-08
2	Rajnandgaon	220/132	1x160	160	Mar-08	Dec-08

3	Doma	220/132	1x160	160	Apr-07	Mar-09
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Total				480		
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GUJARAT(GETCO) :

1	Puna (2x160 MVA)	220/66	320	160	Mar-08	Jul-08
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2	Bhatar (2x160 MVA)	220/66	320	160	Mar-08	Jul-08
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3	Ved (2x160 MVA)	220/66	320	160	Mar-08	Sep-08
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4	Kosamba (1x100 MVA)	220/66	1x100	100	Mar-08	Mar-09
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5	Kukma(1x100 MVA)	220/66	1x100	100	Mar-09	Aug-08
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6	Botad (1x50 MVA)	220/66	1x50	50	Mar-08	Mar-09
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7	Bhat (Bavla) (1x100 MVA)	220/66	1x100	100	Mar-09	
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Total				830		
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GOA :

1	Amona	220/33	2x50	100	Sep-08	
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Total				100		
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MADHYA PRADESH (MPPTCL) :

1	Sidhi S/S (1X160)	220/132	160	160	Mar-08	Sep-08
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2	Sabalgarh	220/132	1x160	160	Mar-08	Feb-09
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3	Chhatarpur	220/132	1x160	160	Mar-08	Feb-09
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4	Mandideep	220/132	1x160	160	Mar-08	Sep-08
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5	Sagar	220/132	1x160+1x 100	160	Aug-08	
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6	Piparia	220/132	1x160	160	Oct-08	
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7	Badod	220/132	1x160	160	Feb-09	
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Total				1120		
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MAHARASHTRA (MSEB) :

1	Magarpatta	220/22	2x50	50	Mar-08	Mar-09
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2	Wather	220/132	2x100	100	Mar-08	Mar-09
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3	Wather	220/33	2x50	50	Mar-08	Mar-09
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4	Chakan	220/132	2x200	200	Mar-08	Mar-09
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5	Chakan	220/33	2x50	50	Mar-08	Mar-09
6	Wada	220/22	1x50	50	Apr-08	
7	Kolshet	220/22	1x50	50	Jul-08	

Total 500

Total 220 kV WR 3030

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Brandix	220/132	2x100	100	Mar-08	Sep-08
2	Kamareddy	220/132	2x100	100	Mar-09	
3	Bellampally	220/132	1x100	100	Sep-08	

Total 300

KARNATAKA (KPTCL) :

1	Puttur	220/110	2x100	0	Jun-06	Sep-08
2	HAL	220/66	2x100	0	Dec-07	Sep-08
3	Nimhans	220/66	2x150	150	Sep-08	
4	A Station compound	220/66	2x150	300	Sep-08	
5	Tallak	220/66	2x100	100	Dec-08	
6	Athani	220/110	2x100	100	Dec-08	

Total 650

KERALA (KSEB) :

1	Edappon	220/110	2x200	200	Jun-05	Dec-08
2	Vadakara	220/110	2x100	100	Jun-07	Mar-09

Total 300

TAMILNADU (TNEB) :

1	Renganathapuram	230/110	2x50	50	Jun-07	Apr-08
2	Oragadam	230/110	2x100	100	Dec-08	
3	Sriperumbudur SIPCOT	230/110	2x100	100	Sep-08	
4	Palladam	230/110	2x100	100	Jun-08	

Total 350

Total 220 kV SR 1600

EASTERN REGION (ER) :

BIHAR (BSEB) :

1	Biharshariff Extn.	220/132/3	1x150	150	Mar-09
2	Pusauli	220/132	2x150	150	Mar-09
3	Dehri	220/132	1x100	100	Mar-09
4	Khagaul	220/132	1x100	100	Mar-09
5	Fatuha	220/132/33	1x100	100	Nov-08
6	Muzaffarpur	220/132	1x100	100	Dec-08
Total				700	

ORISSA (OPTCL) :

1	Bolangir(2x100)	220/132	200	200	Sep-08
2	Pardeep(1st)	220/132	100	100	Sep-08
Total				300	

WEST BENGAL (WBSETC) :

1	Subhasgram (2x160)	220/132	320	160	Feb-09
2	New Town AA-III (2x160)	220/132	320	160	Dec-08
3	Singur(2x160)	220/132	320	160	Sep-08
Total				480	

Total 220 kV ER 1480

NORTH-EASTERN REGION (NER) :

ASSAM (ASEB) :

1	Agia	220/132	1x50	50	Dec-04	Dec-08
2	Balipara (Tezpur)	220/132	1x50	50	Dec-05	Apr-08
Total				100		

ARUNACHAL PRADESH (APSEB) :

1	Deomali	220/132	4x11.1	45	Dec-04	Mar-09
Total				45		

Total 220 kV NER 145

Total 220 kV SS 12463

Total 220 kV CS& SS 13373

132 kV STATE SECTOR :

ARUNACHAL PRADESH (APSEB) :

1	Itanagar	132/33	1x20	20	Jun-06	Sep-08
				20		

MEGHALAYA

1	Lumshung 2x5	132/33	2x5	25	Jun-06	Sep-08
2	Nangalbibra (Aug.)	132/33	1x12.5	12.5	Jun-06	Mar-09
3	Umiam	132/33	2x20	20	Mar-07	Sep-08

Total **57.5**

MIZORAM

1	Kolasib	132/66		0	Aug-05	Sep-08
2	Saitual	132/33		0	Jun-06	Sep-08

Total **0**

Total (SS) 132 kV **77.5**

LEGEND: → *

	*	Outside programme
	S/C	Single circuit
	D/C	Double circuit
	M/C	Multi circuit
	S/C on D/C	Single circuit on Double circuit
	kV	Kilo- volt
	CKm	Circuit kilometer
	LILO	Loop in Loop out
	TPS	Thermal Power station
	CR Panel	Control and Relay panel
	Aug	Augmentation

LIST OF TRANSMISSION LINES FOR 2009-10

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

765 kV Transmission Lines**CENTRAL SECTOR****1 Barh Trans. System**

Seoni - Bina (initially to be operated at 400KV) S/C 293 Sep-09 Dec-09

2 Koteswar Trans. System

LILO of Tehri - Meerut at Tehri Pooling Point (to be charged at 400 KV) 2xD/C 25 Jun'08 Sep-09

Total 765 kV CS 318

500 kV HVDC Transmission Lines**1 Barh Trans. System**

a +/- 500 KV Balia - Bhiwadi (2500 MW) Bipole 1580 Sep-09

Total HVDC 1580

400 kV Transmission Lines**1 Barh Gen. Project (3x660 MW)**

a Barh-Balia (Quad) D/C 490 Sep-09

b LILO of Kahalgaon-Patna at Barh D/C 104 Sep-09

2 East-West Trans. Corridor Strengthening

a Ranchi-Rourkela D/C 286 Jun-09 Mar'10

b Rourkela - Raigarh D/C 440 Jun-09 Mar'10

c Raigarh - Raipur D/C 440 Jun-09 Mar'10

3 North - West trans Corridor Strengthening Scheme

a Zerda - kankroli D/C 470 Mar'07 Apr-09

4 System Strengthening Scheme in Uttaranchal

a LILO of one ckt of Dhauliganga - Bareilly at Pithoragarh (to be operated at 220 kV) D/C 6 Mar'07 Dec,09

5 Koteswar Trans. System

Koteswar -Tehri Pooling Point D/C 6 Jun '08 Sep'09

6 Koldam HEP Trans. System

a Koldam - Nalagarh (Quad) (Powergrid Portion) D/C 90 Sep'08 Jul-09

7 Northern Region System Strengthening Scheme - V

a Bhiwadi - Agra D/C 417 Jun-09 Sep-09

b Bhiwadi - Moga D/C 702 Jun-09 Sep-09

8 Parbati-III Trans. System

a LILO of Parbati -II - Koldam/Nalagarh at Parbati Pooling Point Amritsar D/C 20 Jan'10

b LILO of Parbati -II - Parbati Pooling Point at Parbati -III D/C 7 Jan'10

c 400KV D/C Parbati Pooling Point - Amritsar 516 Jan'10

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

9 System Strengthening in South-Western part of Northern Grid (Part-B) Scheme

a Kankroli - Jodhpur D/C 193 Oct'09

10 Northern Region System Strengthening Scheme - VIII

a LILO of 1st ckt. Of Kankroli-Zerda at Bhinmal D/C 55 Dec'09

11 Northern Region System Strengthening Scheme - VI

LILO of Ballabharh - Bhiwadi at Gurgaon D/C 68 Jul'09 Sep-09

12 Sipat - II Supplementary Trans. System

a Akola - Aurangabad D/C 482 Jun'08 Sep-09

13 Kaiga 3 & 4 Trans. System

a Mysore - Kozhikode I D/C 418 Dec'07 Mar-10

14 Neyveli TS - II Trans. System

a Neyveli (Expn.) Sw. Yd.- Neyveli (existing) Sw. Yd. 2xS/C 3 Dec'07 Mar-10

b Neyveli TS -II - Pugalur D/C 398 Dec'07 Mar-10

c Udhamalpet - Arasur D/C 131 Dec'07 Sep-09

d LILO of Neyveli - Sriperumbadur line at puducherry D/C 26 Dec'07 Sep-09

e LILO of Ramagundam - Khammam at Warangal D/C 26 Dec'07 Sep-09

15 Kundankulam - APP Trans. System

a Kundankulam (NPC) - Tirunelveli (PG) (Quad Line -I D/C 145 Dec'07 Mar-10

b Kundankulam (NPC) - Tirunelveli (PG) (Quad line -II D/C 160 Dec'07 Mar-10

c Tirunelveli (PG) - Udumalpet (PG) D/C 533 Dec'07 Mar-10

d Tirunelveli (PG) - Edamon (KSEB) Multi -Ckt line M/C 327 Nov'08 Mar-10

e Edamon (KSEB) - Muvattupuzha (PG) D/C 298 Nov-08 Mar-10

f Muvattupuzha (PG) - North Trichur (PG) D/C 155 Nov-08 Mar-10

16 System Strengthening -VII of SR

a LILO of 1 ckt of Madurai (PG) - Trichy (PG) at Karaikudi D/C 98 July'09

b LILO of 1 ckt of exist. Talguppa (KPTCL) - Neelamangla (KPTCL) at Hassan D/C 148 July'09

17 Eastern Region Strengthening Scheme-I

a Durgapur-Jamshedpur D/C 362 Oct'09

b Jamshedpur - Baripada D/C 270 Oct'09

c Baripada - Mendhasal D/C 510 Oct'09 Dec-09

Total 400 kV 8800

Damodar Valley Corporation

Durgapur TPS (2x500 MW)

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

1 LILO of Durgapur-Jamshedpur (PG) at Durgapur STPS

Raghunathpur TPS(2x600 MW)

1 LILO of Maithon-Ranchi (PG) at Raghunathpur

Total (DVC) 400 kV

Total (CS) 400 kV

8811

400 kV STATE SECTOR :

NORTHERN REGION (NR) :

RAJASTHAN (RVPN) :

Chhabra TPS (2x250MW)

1 Dahra(Kota)-Bhilwara S/C+ 186 Sep-08 Jul-09

2 LILO Dholpur-Heerapura at Hindaun D/C 13 Sep-08 Jul-09

3 Chhabra-Hindaun S/C+ 342 Mar-09 Jul-09

Suratgarh STPS (U-6 250 MW)

1 Suratgarh STPS -Bikaner S/C 162 Oct-08 Jul-09

Wind Power Generation (1890 MW)

1 Jaisalmer- Barmer S/C 180 Apr-09 Mar-10

2 Jaisalmer- Jodhpur S/C 250 Apr-09 Mar-10

Raj West LTPS (Phase -I) (8x135 MW)

1 Rajwest- Jodhpur D/C 440 Apr-09 Mar-10

Kota Tps

1 KTPS-Kota(PG) (to be charged at 220 kV) D/C 13 Mar-08 Sep-09

B System Srengthening

1 Jodhpur - Merta (2nd Ckt) S/C 110 Mar-08 Sep-09

Total 1696

UTTAR PRADESH (UPPCL) :

System Srengthening

1 LILO of Anpara-Varanasi at Obra TPS D/C 21 Jun-05 Aug-09

Total 21

Haryana (HVPN):

Jhajjar TPS (3x500MW)

1 Jhajjar - Daultabad D/C 120 Mar-10

2 Jhajjar - Mundka D/C 120 Mar-10

Hissar TPS (2x600MW)

1 Hissar - Kirori D/C 23 Sep-09

2 Hissar - Fatehbad D/C 90 Sep-09

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

3 LILO of one ckt of Hissar- Moga at Hissar TPS D/C 3 Jul-09

Total 356

TOTAL (NR) 400 kV 2073

WESTERN REGION (WR) :

GUJARAT (GETCO) :

Adani Power Limited (Private)

1 Mundra-Dehgam D/C 868 Jan-09 Jul-09

Adani Power Limited (State) 1000 MW (Bid-1)

1 Adani-Versana D/C 166 Feb-10

2 Versana-Hadala D/C 300 Feb-10

Sugen(Akhakol),Torrent Power Limited (Private)

1 TPGL-Pirana D/C 424 Mar-08 Mar-10

a.Sugen - Jhanor (for LILO of Jhanor-Delgham at Sugan)

b.Jhanor-Pirana via Pirana TPL

System Strengthening

1 LILO of one Ckt of Asoj-Amreli at Chorania D/C 39 Dec-07 Jul-09

2 LILO of Asoj-Ukai at Kosamba D/C 64 Nov-09

3 Essar- Hadala D/C 232 Nov-09

Total (GETCO& PVT) 400 kV 2093

MAHARASHTRA (MSEB) :

Ratnagiri CCGP (Dabhol CCGT ST-II)

1 Dabhol-Nagothane Ckt.-II S/C 136 Feb-06 Jul-09

Total 136

Total (WR) 400 kV 2229

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

Vijayawada (500 MW) TPS

1 LILO of Srisailam-Nunna at VTPS D/C 20 Sep-08 Jul-09

Bhoopalapally(Kakatiya) TPS

1 Bhoopalapally -Warangal D/C 88 Aug-09

Lanco Kondapalli TPS

1 Kondapalli - Nunna D/C 42 Aug-09

System Srengthening

1 LILO of Ramagundam -Ghanapur at Malkaram D/C 54 Sep-08 Sep-09

Total 204

Karnataka(KPTCL)

Chandrapur(Thorangallu-Bellary)

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

1	BTPS- Hiriyur	D/C	302	Dec-08	Sep-09
2	LILO of RTPS- Guttur at Thorangallu JSW S/S	D/C	16	Nov-08	Jul-09
	Total		318		
	Total (SR) 400 kV		522		

EASTERN REGION (ER) :

ORISSA (OPTCL) :

System Strengthening

1	Meramundali-Mendhasal (Chandaka)	D/C	201	Jun-02	Jul-09
2	Meramundali-Duburi	D/C	192	Sep-02	Sep-09
	Total		393		

WEST BENGAL (WBSETC) :

Sagardighi TPP(2x300 MW)

1	Sagardighi - Parulia (PGCIL)	D/C	254	Dec-08	Mar-10
	System Strengthening				
1	KTPS - Kharagpur	S/C	30	Mar-10	
2	LILO of KTPS - Baripada at Kharagpur	D/C	7	Mar-10	

	Total		291		
	Total (ER) 400 kV		684		
	TOTAL (State Sector) 400 kV		5508		
	TOTAL (All India) 400 kV		14319		

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

1	Vapi - Khadoli(UT of DNH)	D/C	56	Mar-10	
	Total PGCIL 220 kV		56		

DAMODER VALLEY CORPORATION (DVC) :

Mejia TPS Unit-6(250 MW)

1	Mejia-Gola - Ramgarh	D/C	406	Dec.05	Dec-09
	Chandrapura TPS Extn.(2x250)				
1	LILO of Kalyaneshwari-CTPS at Dhanbad	2xD/C	8	Mar-09	Jul-09
2	Dhanbad-Giridih	D/C	86	Sep-09	
3	Giridih-Kodarma	D/C	212	Feb-10	
4	LILO of CTPS-MTPS ckt 1 at Kalyaneshwari	D/C	89	Oct-08	Jul-09
5	LILO of CTPS-MTPS ckt 2 at Kalyaneshwari	D/C	90	Oct-08	Jul-09
6	Kalyaneshwari - Pithakari	D/C	8	Oct-08	Jul-09
	Total (DVC) 220 kV		899		
	Total (CS) 220 kV		955		

220 kV STATE SECTOR :

NORTHERN REGION (NR) :

CHANDIGARH :

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

System Strengthening

1	Ganguwal-Mohali (2nd Ckt. Stringing) (Incl of re-alignment)	S/C	72.4	Jun-06	Jul-09
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Total 72.4

DELHI (DTL) :

1	Gazipur-Noida	D/C	16	Mar-04	Dec-09
2	LILO of Bawana-Najafgarh at Khanjawla	2xD/C	12	Jun-03	Dec-09
3	Papankalan-I- Papankalan-II	D/C	11	Mar-06	Dec-09
4	LILO of Bawana - Narela at Bawana DSIDC	2xD/C	14	Dec-05	Jul-09
5	U/G of Maharani Bagh(PG)-Masjid Moth	D/C	19	Mar-08	Mar-10
6	U/G of Maharani Bagh-Electric lane	D/C	22	Mar-08	Mar-10
7	U/G of Maharani Bagh-Trauma Centre/AIIMS	D/C	19	Mar-08	Mar-10

Total 113

HIMACHAL PRADESH (HPSEB) :

Kashang - I HEP 2x33 MW

1	Kashang-Bhaba	D/C	76	Mar-07	Jul-09
2	LILO Kashang-Bhaba at Bhoktoo	D/C	63	Jan-08	Dec-09

Allain Duhangan(2x96 MW)

1	Allain Duhangan-Panarsa-Nalagarh D/C	D/C	349	Jun-09	Dec-09
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Malana - II HEP

1	LILO of Allain Duhangan-Nalagarh at Chhaur	D/C	1	Sep-09	
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System Strengthening

1	Khodri-Majri (2 nd circuit)	S/C on D/C	35	Mar-08	Mar-10
2	Kangoo-Rauri	S/C	24	Jun-09	Dec-09

Total 548

HARYANA (HVPN) :

Yamuna Nagar TPS

1	YTPP-Nilokheri	D/C	104	Mar-08	Jul-09
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Hissar TPS

1	LILO of Jind Hissar at Kirori	D/C	25	Mar-08	Jul-09
2	Kirori - Masudpur	D/C	24	Mar-08	Jul-09

System Strengthening

1	Badshahpur – Rewari (2nd Ckt) Stringing	S/C	51	Jun-06	Jul-09
2	Badshahpur-IMT Manesar 2 nd Ckt Stringing	S/C	12	Mar-07	Jul-09
3	Cheeka-Durala	D/C	106	Dec-08	Jul-09

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

4	LILO of Palli - Gurgaon Sector 52 A at Gurgaon Sector 56	D/C	2	Dec-08	Jul-09
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5	LILO of Jind - Hissar at Masudpur	D/C	4	Dec-08	Jul-09
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Total 328

PUNJAB (PSEB) :

Guru Hargobind TPS - II (2x250 MW)

1	GHTP-Himatpura D/C	D/C	80	Dec.07	Dec-09
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Evacuation From PGCIL Sub-Stations

Ludhiana 400/220 kV S/S

1	LILO one ckt of Lalton Kalan- Dhandarikalan at Ludhiana	D/C	5	Apr-09	Aug-09
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2	LILO one ckt of Lalton Kalan-Sahnewal at Ludhiana (PG)	D/C	3	Apr-09	Aug-09
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3	Ludhiana (400kV) - Doraha (220kV)	S/C on D/C	18	Jun-09	Aug-09
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System Strengthening

1	Ranjit Sagar Dam – Sarna (circuit 4)	D/C	30	Jun-05	Aug-09
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2	LILO of Malerkotla – Lalton Kalan S/C at Pakhowal	D/C	2	Mar-06	Dec-09
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3	Phagan Majra (400 kV) - F.P.Nabha	D/C	65	Mar-08	Dec-09
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4	LILO of one circuit of GGSSTP – Mohali-I at Kharar	D/C	10	Dec-07	Dec-09
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5	Nalagarh-Mohali -I	D/C	107	Jul-07	Dec-09
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6	LILO of one ckt. of Moga- Mukatsar DC at Sadiq	D/C	50	Mar-09	Dec-09
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7	LILO of one ckt. of Fateh Garh Churian- Civil Line Amritsar at Majitha	D/C	5	Jun-09	Dec-09
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Total 375

Rajasthan

GIRAL LIGNITE (2X125 MW)

1	Giral TPS-Barmer 2nd ckt	S/C	40	Mar-07	Aug-09
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2	Giral TPS-Baitoo	S/C	48	Mar-09	Mar-10
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3	Baitoo - Balotra	S/C	55	Mar-09	Mar-10
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Barsinghsar Lignite NLC (2x125 MW)

1	Barsinghsar TPS-Phalodi	S/C	140	Mar-09	Aug-09
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2	Extension of Bikaner- Barsinghsar at Barsinghsar TPS	S/C	3	Apr-09	Jul-09
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Kota TPP (195 MW) & Kota 400/220 kV PGCIL S/S

1	LILO Kota-Bhilwara at Kota (PG)	D/C	4	Mar-08	Aug-09
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RAPP (2x220 MW)

1	Kankroli (PG)-Kankroli pspm(cea)	S/C Trans Lines 7 of 22	22	Apr-08	Mar-10
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Chhabra TPS (2x250MW)

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

1	Chhabra TPS-Jhalawar	S/C	125	Sep-08	Aug-09
2	Chhabra-Baran-Dahra	S/C	138	Sep-08	Jun-09
3	LILO Bhilwara-Pali at Bhilwara (400 kV)	D/C	10	Sep-08	Jul-09
4	LILO Bhilwara-Bali at Bhilwara (400 kV)	D/C	6	Sep-08	Jul-09
5	Hindaun (400 kV)-Hindaun (220 kV)	D/C	16	Sep-08	Jul-09
6	Hindaun (400 kV)-Mandawar	S/C	48	Sep-08	Jul-09

Suratgarh STPS (U-6 250 MW)

1	LILO Bikaner-Sridungargarh at Bikaner (400 kV)	D/C	2	Oct-08	Aug-09
2	LILO Bikaner- Nagaur at Bikaner (400 kV)	D/C	40	Oct-08	Aug-09
3	STPS-Bhadra	S/C	114	Oct-08	Apr-09

Raj West LTPS (Phase -I) (8x135 MW)

1	Raj West-Barmer	D/C	27	Apr-09	
2	Raj West-Dhorimanna	D/C	90	Mar-10	

System Strengthening

1	Kankroli (PG)-Debari	S/C	63	Mar-08	Jul-09
2	LILO one ckt Bassi-Heerapura at Jagatpura	D/C	22	Mar-09	Jul-09
3	Dhorimana - Sanchole (jalore)	D/C	64	Mar-09	Aug-09
4	LILO Heerapura-Kukas at Renwal	D/C	49	Jul-08	May-09
5	LILO Heerapura-Bassi at Mahindra SEZ (Jaipur)	D/C	24	Jul-08	Dec-09

Total 1150

UTTAR PRADESH (UPPCL) :

Rosa TPS

1	LILO of Shahjahanpur - Hardoi at Rosa (1st ckt)	2xD/C	16	Mar-10	
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System Strengthening

1	Matre (PG) - Nehtaur	S/C	75	Jul-09	
2	Nanauta - Muzaffarnagar	S/C	55	Aug-09	
3	Muzaffarnagar-Shamli	S/C	56	Mar-08	Aug-09
4	LILO of Saharanpur-Shamli at Nanauta	D/C	6	Apr-08	Jul-09
5	Metore(Meerut) (PG)-Gajraula	S/C	87	Apr-08	Jul-09
6	LILO of Moradabad-NAPP at Sambhal	D/C	3	Mar-08	Jul-09
7	LILO of Khurja-Muradnagar at Dadri	D/C	23	Mar-08	Jul-09
8	Basti-Gonda	S/C	103	Apr-08	Aug-09
9	LILO of Sultanpur-Gonda at Sohawal	D/C	26	Dec-08	Jul-09
10	Bhauti(PG)-Orai	S/C	90	Jul-08	Jul-09

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

UTTARAKHAND (PTCUL)

Associated Transmission Schemes

Maneri Bhali-II HEP UJVNL (4x76 MW)

1 Rishikesh-Maneribali Stage-II (3rd ckt) S/C 79 Dec-05 May-09

Bhilangana I,II,III

1 Ghansali - Chamba S/C 35 Dec-05 Dec-09

2 Bhilangana - Ghansali S/C 36 Dec-05 Dec-09

3 LILO of Bhilangana III - Ghansali at Bhilangana II S/C 2 Dec-05 Dec-09

System Strengthening

1 Kashipur - Barheni D/C 54 Dec-06 Dec-09

2 Barheni - Pantnagar S/C 35 Dec-06 Jul-09

Total 241

JAMMU & KASHMIR (J&K) :

System Strengthening

1 Zainkote-Alusteng-Mirbazar D/C 254 Mar-10

2 Wagoora-Mirbazar D/C 104 Mar-09 Oct-09

3 Wagoora-Budgam- Zainkote D/C 60 Mar-09 Oct-09

4 Zainkote-Amargarh D/C 85 Mar-10

5 Udampur- Gladni S/C 48 Apr-08 Jul-09

6 Thein (RSD)-Hiranagar (2nd ckt) S/C 40 Mar-08 Jul-09

7 LILO Kishenpur-Pampore at Ramban D/C 4 Mar-09 Jul-09

8 Bishnah-Hira Nagar D/C 89 Mar-09 Dec-09

9 Barn- Bishnah D/C 75 Mar-09 Dec-09

Total 759

Total (NR) 220 kV 4110

WESTERN REGION (WR) :

CHATTISGARH(CSEB) :

Bhilai TPP (P) (JV- NSPCL)

1 NSPCL-BSP MSDS-5 D/C 7 Sep-08 Jul-09

Korba (W)

1 Khedamara- Rajnandgaon D/C 50 Dec-08 Jul-09

2 Khedamara- Bemtra D/C 51 Dec-09

Evacuation From PGCIL Sub-Stations

Bhatapara 400/220 kV S/S

1 Bhatapara 400 kV (PGCIL)– Suhela D/C 27 Dec-07 Jul-09
pspm(C&A) (Bhatapara) Trans Lines 9 of 22

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

System Strengthening

2	LILO of Raipur(PG)- Suhela (Bhatapara) at Doma	D/C	42	Mar-08	Jul-09
3	Raigarh 400 kV (PGCIL) S/S – Raigarh	S/C	21	Dec-07	Jun-09
4	LILO of Korba-Siltara at Mopka	D/C	24	Apr-08	Jul-09
Total(CSEB&PVT) 220 kV			222		

GUJARAT :

Utran CCGT 300 MW

1	Utran - Kosamba	2 x D/C	172	Dec-09	
2	Kosamba-Mobha	2 x D/C	440	Mar-10	

Surat Lignite Ext. Unit 3 & 4 (2x125 MW)

1	Mangrol - Mobha	D/C	218	Dec-08	Dec-09
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Sugen(Akhakol),Torrent Power Limited (Private)

1	Akhakol-Puna	D/C	72	Apr-07	May-09
2	Akhakol-Bhatar	D/C	136	Apr-07	May-09
3	Akhakol-Ved	D/C	52	Apr-07	Jun-09

System Strengthening

1	LILO of Vav-Jagadia on Ckt-1 at Kosamba	D/C	10	Mar-08	Dec-09
2	LILO of 2nd ckt of Ukai(T)-Vav at Bardoli	D/C	10	Mar-08	Jul-09
3	LILO of Shivalkha- Nanikhakhar at Kukma	D/C	34	Apr-09	Aug-09
4	Rajpur - Dudhrej	D/C	20	Jun-09	Jul-09
5	Adani(Mundra) - Versana	D/C	164	Jun-09	Aug-09
6	Versana- Morbi	D/C	214	Feb-10	
7	Chorania -Bala	D/C	59	Dec-08	Jun-09

Total (GETCO&PVT) 220 kV 1601

GOA :

1	Xeldem-Cuncolim	D/C	20	Jun-07	Feb-10
2	LILO of one ckt of Kolhapur - Ponda at Amona	D/C	3	Sep-08	Dec-09

Total 23

MADHYA PRADESH (MPPTCL) :

System Strengthening

1	LILO of Gwalior-Malanpur at Gwalior 400 kV (PG)	D/C	17	Mar-08	Jul-09
2	Satna-Chhatarpur	S/C on D/C	140	Apr-08	Dec-09
3	LILO of 1st Ckt Jabalpur-Itarsi at Piparia	D/C	7	Mar-08	Jul-09
4	Chindwara- Seoni (PG)	D/C	140	Apr-08	Jul-09
5	Bhopal(400 kV)-Ashta	D/C	194	Apr-08	Feb-10

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

6	LILO of 1st Ckt of Damoh - Bina D/C at Sagar	D/C	15	Jun-07	Jul-09
7	Sujalpur-Rajgarh	D/C	134	Jun-09	Jul-09
8	Sujalpur-Sujalpur (PGCIL)	D/C	10	Jun-09	Jul-09
9	LILO of Jabalpur-Itarsi(2nd ckt) at Narsinghpur	D/C	4	Jul-08	Apr-09
10	LILO of Jabalpur-Narsinghpur Part line at Sukha (PG)	D/C	158	Jun-09	Dec-09
13	LILO of one ckt of Satpura-Itarsi at Handia	D/C	220	Jun-09	Jan-10
14	Makronia- Sagar(Traction feeder)	D/C	11	Jun-09	Jul-09
15	LILO of 2nd ckt of Pitampur- Ratlam at Bad Nagar	D/C	21	Jun-09	Jul-09
16	LILO of 1st Ckt Itarsi - Bhopal at Hosangabad	D/C	12	Apr-09	
17	LILO of 2nd ckt Itarsi - Bhopal at Hosangabad	D/C	11	Jun-09	Jul-09
17	Astha- Bercha	S/C	45	Dec-09	
Total			1139		

MAHARASHTRA (MSETCL) :

System Strengthening

1	LILO Tarapur-Borivli at Boisar II	D/C	16	Mar-07	Aug-09
2	Boisar (PG)-Wada S/C on D/C	S/C	53	Mar-07	Aug-09
3	Kolhapur II-Kolhapur-III interconnector	S/C on D/C	18	Mar-08	Aug-09
4	LILO of Karad – Kolhapur D/C at Wather	D/C	20	Mar-08	Jul-09
5	Talegaon 400 kV(PG)S/S – Talegaon 220 kV S/S	D/C	20	Mar-08	Aug-09
6	LILO of Pusad – Nanded (ckt-1) at Hingoli	D/C	72	Mar-08	Sep-09
7	LILO of Nasik – Kalwa Ckt 3&4 at Bapgaon	2xD/C	12	Mar-08	Aug-09
8	LILO of Padghe – Wada (Ckt-1) at Kudus	D/C	2	Mar-08	Aug-09
9	LILO of Kalwa – Padghe (Ckt-1)at Airoli (Knowledge Park)	D/C	2	Mar-08	Aug-09
10	LILO of Kandalgaon – Chinchwad D/C at Hinjewadi-II	2xD/C	6	Mar-08	Aug-09
11	Pune (400kVPG)- Talegaon S/S	D/C	20	Mar-09	Aug-09
12	LILO of Pune Ring Main at Talegaon S/S	D/C	10	Mar-09	Aug-09
13	LILO of Pusad - Nanded II at Hingoli S/S	D/C	44	Jun-09	Aug-09
14	Kolhapur II-Chalkarangi II	S/C	18	Apr-09	Aug-09

Total 313

Total (WR) 220 kV 3298

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

Rayalseema St.II Unit-5 (210 MW)

1	RTPP Pulivendula BSPM (Cea)	Trans Lines D/C of 22	82	May-07	Dec-09
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Evacuation From PGCIL Sub-Stations

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

Warrangal(Oglapur)400/220 kV S/S

1	Oglapur 400kV S/S-Nagaram	D/C	25	Mar-09	Sep-09
System Strengthening					
2	Ramagundam- Bellampalli	S/C on D/C	43	Mar-08	Aug-09
3	Boddepallipeta-Tekkali	S/C on D/C	44	Dec-07	Aug-09
5	Kalpaka S/S - Ms. Brandix	D/C	23	Jun-08	Aug-09
6	Dhone - Kambalapadu	S/C on D/C	12	Jun-09	Aug-09
7	Dhone - Krishnagiri	S/C on D/C	11	Mar-09	Sep-09
8	Krishnagiri - Settipally	S/C on D/C	11	Mar-09	Sep-09

Total 251

KARNATAKA (KPTCL) :

Raichur Unit 8 TPS

1	RTPS - Raichur	D/C	40	Dec-07	Aug-09
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Lanco Mangalore TPS

1	NPCL - Khemar	D/C	48	Aug-09	
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Varahi HEP

1	Varahi-Khemar in the existing 110 kV corridor	D/C	113	Dec-08	Aug-09
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System Strengthening

2	LILO of Hoody-Kolar at Hoskote	D/C	32	Sep-07	Aug-09
3	Hiriyur 400kV S/S- Gowribidanur	D/C	242	Mar-08	Dec-09
4	Bastipura - Kadakola	D/C	54	Mar-08	Sep-09
5	Hiriyur - Tallak	D/C	80	Jun-08	Apr-09
7	Bidadi-Kothipura(Ramanagar)	M/C	36	Jan-09	Sep-09
9	LILO of Mahalingar-Hubli line at Soundatti	D/C	18	Dec-08	Dec-09

10	Indi- Basavanabagevadi	D/C	170	Sep-08	Apr-09
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11	LILO of Lingasugur- Lingapur line at Sindhanur	D/C	70	Apr-09	
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13	LILO from Somanahalli- Malur at Sarjapura	D/C	23	Apr-08	Dec-09
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Total 926

KERALA (KSEB) :

Evacuation From PGCIL Sub-Stations

Kozhicode 400/220 kV S/S

1	Areacode(PGCIL)400kV S/S- Areacode S/S	M/C	1	Dec-07	Nov-09
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System Strengthening

1	LILO of Kayamkulam-Edaman (ckt-2) at Edappon	D/C	17	Mar-08	Jun-09
2	Tap line to Vadakara S/S	D/C	2	Mar-08	Jul-09
3	LILO of New Pallom- Mavelikkara at Punnapra	D/C	40	Mar-08	Sep-09

Sl. No.	Generating Plant /Associated Transmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

TAMILNADU (TNEB) :

Evacuation From PGCIL Sub-Stations

Tirunelveli 400/220 kV S/S

1	Tirunelveli 400kVS/S - Udayathur	S/C on D/C	67	Dec-08	Sep-09
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Pugalur S/S 400/220 kV S/Stn.

1	LILO of Pugalur-Alundur at Pugalur S/S 400kV S/S	D/C	18	Jun-09	Jul-09
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System Strengthening

	Valuthur - Paramakudi S/C on D/C	S/C	50	Dec-07	Dec-09
1	S.P.Koil-Tharamani (Perambakkam-Tharamani portion)	S/C	45	Jun-06	Dec-09
2	Sriperumbudur -Korattur (Changing of conductor)	S/C	20	Sep-06	Dec-09
3	Alamathy S/S - Avadi	D/C	35	Sep-07	Sep-09
4	Malumichampatty- Common point	D/C	91	Jun-08	Sep-09
5	Common point - Myvadi S/S S/C on D/C	S/C	13	Mar-08	Sep-09
6	Common point -Ponnapuram S/C on D/C	S/C	17	Dec-08	Sep-09
7	Devakkurichi- Pudhanchandai	S/C on D/C	169	Dec-07	Dec-09
8	Manali- Tondiarpet	D/C	18	May-09	

Total 543

Total(SR) 220 kV 1780

EASTERN REGION (ER) :

ORISSA (OPTCL) :

System Strengthening

1	Budhipadar-Bolangir	D/C	358	Dec-08	Jul-09
2	Mendhasal-Bidnasi	D/C	62	May-08	Jul-09
3	Bidnasi -Cuttack	D/C	11		Dec-09

Total 431

JHARKHAND (JSEB) :

System Strengthening

1	Lohardagga-Latehar	D/C	112	Mar-10	
2	Latehar- Daltonganj	D/C	128	Mar-10	
4	LILO of Sonenagar- Garhwa D/C at Japla	D/C	8	Jun-09	Jul-09

Total 248

WEST BENGAL (WBSETC) :

Santalalhi TPP U-5(1x250 MW)

1	Santalalhi TPS-Bishnupur	D/C	223	Oct-08	Jul-09
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Budge Budge Ext.(2x250 MW) 6/2009

1	Budge Budge -Kosba	D/C	170	Aug-09	
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Teesta Low Dam III (4x33MW)

1	Teesta LD III-New Jalpaiguri	S/C	73	Dec-09	
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Teesta LD IV HEP(4x40 MW)

1	Teesta LD IV - NJP D/C	D/C	145	Sep-08	Sep-09
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2	Teesta LD III -Teesta LD IV S/C	S/C	21	Sep-08	Sep-09
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System Strengthening

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6
1	LILO of Aramgarh-Rishra at Singur	D/C	20	Aug-08	Sep-09
2	Jeerat-Rishra	D/C	140	Aug-08	Dec-09
3	Gujarat Ambuja- Rishra(S/S)	S/C	26	Dec-08	Dec-09
5	Dalkhola(PG)- Dalkhola	D/C	6	Mar-10	
6	LILO of STPS -Bishnupur at Hura	D/C	20	Mar-10	
7	Kharagpur -Nahayangarh	D/C	50	Mar-10	
8	Sushasgram- Saintala	D/C	25	Mar-10	
	Total		919		
	Total(ER) 220 kV		1598		
	NORTH-EASTERN REGION (NER) :				
	ASSAM (ASEB) :				
1	Kathalguri-Tinsukia (2nd Circuit)	S/C	50	Oct-05	Jul-09
2	BTPS-Agia-Sarusajai (2nd Circuit)	S/C	396	Oct-05	Jul-09
	Total		446		
	MEGHALAYA				
1	Misa - Byrnihat	D/C	230	Mar-10	
	Total		230		
	Total (NER) 220 kV		676		
	TOTAL (STATE SECTOR) 220 kV		11462		
	TOTAL (ALL INDIA) 220 kV		12417		

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

132 kV System

MEGHALAYA

Leshka Myntdu -I HEP (2x42 MW)

1 Leshka Myntdu - Khliehriat	D/C	52	Dec-08	Aug-09
Total		52		

LIST OF SUB-STATIONS FOR 2009-10

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Total Capacity (MW/MVA)	Programme 2009-10 (MW/MVA)	Target	
					Original	Revised
(+/-)500 HVDC						
Trans. System associated with Barh Gen. Proj.(3x660 MW)						
1	Converter station at Balia		2x1250	1250	Sep-09	Dec-09
2	Converter station at Bhiwadi		2x1250	1250	Sep-09	Dec-09
Total				2500		
400/220 kV Substations						
NORTHERN REGION						
1 Northern Region System Strengthening-VIII						
a	Bhimnal S/Stn.	400/220	2x315	630	Dec'09	
b	Hissar 3rd ICT	400/220	1x315	315	Dec'09	
2 Northern Region System Strengthening-VI						
	Gurgaon GIS S/Stn.	400/220	2x315	630	July'09	Aug-09
3 Northern Region System Strengthening-VII						
	Wagoora S/Stn. 4th ICT	400/220	3x105	315	Mar-10	
4 System Strengthening in Roorkee						
	Roorkee S/S	400/220	2x315	315	May'09	Oct-09
WESTERN REGION						
5 Sipat - II Supplementary Trans. System						
	Wardha Sub station	400/220	2x315	315	Jun'08	Dec-09
SOUTHERN REGION						
6 Neyveli TS-II Transmission System						
a	Pugalur S/S 2nd ICT	400/220	2x315	315	Nov-09	
b	Warrangal S/S	400/220	2x315	630	Nov-09	Sep-09
c	Arasur S/S	400/220	2x315	630	Nov-09	Sep-09
d	Pondicherry S/S	400/220	2x315	630	Nov-09	Sep-09
7 Kundankulam - APP Trans. System						
a	Trivandrum (PG)(Ext)	400/220	1x315	315	Nov'08	Jun-09
8 Kaiga 3 & 4 Trans. System						
a	Kozhikode S/Stn.	400/220	2x315	315		Nov-09
9 System Strengthening -VII of SR						
a	Karaikudi S/S	400/220	2x315	630	July'09	
b	Hassan S/S	400/220	2x315	630	July'09	
400/220 kV Total				6615		
TOTAL (CS) 400 kV				6615		

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Total Capacity (MW/MVA)	Programme 2009-10 (MW/MVA)	Target	
					Original	Revised

400 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

HARYANA (HVPN) :

Hissar TPS

1	Kirori	400/132	3x315	315	Nov-09	
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TOTAL (HVPN) 400 kV 315

RAJASTHAN (RVPN)

A Associated Transmission Lines

Chhabra TPS (2x250MW)

1	Bhilwara S/S	400/220	1x315	315	Sep-08	Mar-10
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2	Hindaun S/S	400/220	1x315	315	Sep-08	Mar-10
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Suratgarh STPS (U-6 250 MW)

1	Bikaner S/S	400/220	1x315	315	Oct-08	Mar-10
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TOTAL (RVPN) 400 kV 945

TOTAL (NR) 400 kV 1260

WESTERN REGION (WR) :

Chhattisgarh

Bhilai TPP (P) (JV- NSPCL)

1	NSPCL	400/220	2x315	315	Oct.07	Dec-09
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Korba (W)

1	Raipur	400/220	2x315	315	Oct.07	Dec-09
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TOTAL (CSEB) 400 kV 630

Madhya Pradesh

1	Katni	400/220	1x315	315	Dec-09	
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TOTAL (MPPTCL) 400 kV 315

GUJARAT (GETCO) :

Adani Power Limited (State) 1000 MW (Bid-1)

1	Versana	400/220	2x315	630	Jun-09	Aug-09
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2	Rajkot(Hadala) ICT-II	400/220	1x315	315	Mar-08	Aug-09
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TOTAL (GETCO) 400 kV 945

TOTAL (WR) 400 kV 1890

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Mahaboobnagar(Aug.)	400/220	2x315	630	Jun-09	Aug-09
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2	Chittoor (Aug.)	400/220	1x315	315	Dec-09	
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3	Malkaram	400/220	2x315	315	Mar-10	
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TOTAL (APTRANSCO) 400 kV 1260

KARNATAKA (KPTCL) :

1	Talaguppa (3rd)	400/220	1x315	315	Sep-07	Jul-09
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TOTAL (KPTCL) 400 kV 315

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Total Capacity (MW/MVA)	Programme 2009-10 (MW/MVA)	Target	
					Original	Revised

TOTAL (SR) 400 kV

1575

EASTERN REGION (ER) :

ORISSA

System Strengthening

1	Menddhsal	400/220	2x315	315	May-08	Jul-09
2	Dubri	400/220	2x315	315	May-08	Sep-09

TOTAL (GRIDCO) 400 kV

630

WEST BENGAL (WBSEB) :

System Strengthening

1	Durgapur	400/220	6x105	630	Oct-08	Mar-10
2	Kharagpur	400/220	2x315	315	Mar-10	

TOTAL (WBSEB) 400 kV

945

TOTAL (ER) 400 kV

1575

TOTAL (SS) 400 kV

6300

TOTAL (ALL INDIA) 400 kV

12915

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

B. National S/S

1 System Strengthening Scheme in Uttranchal

a	Pithoragarh	220/132	6x33.3	200	Mar'07	Dec.'09
b	Sitarganj 2nd ICT	220/132	2x100	100	Mar'07	Jul-09

NORTH EASTERN REGION

NER System Strengthening Scheme - I (Missing link transmission System in NER)

a	Kopili S/S Extn.	220/132	160	160	Sep'09	
b	Dimapur S/S Extn.	220/132	160	100	Sep'09	

TOTAL (PGCIL) 220 kV

560

DAMODER VALLEY CORPORATION (DVC) :

Mejia TPS Unit-6 (1x250MW)

1	Barjora Extn	220/132	2x150	150	Jun-09	Sep-09
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Chandrapura TPS Extn.(2x250)

1	Dhanbad(2x150+2x50))	220/132	400	350	Mar-09	Sep-09
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TOTAL (DVC) 220 kV

500

TOTAL (CS) 220 kV

1060

220 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

DELHI (DTL) :

1	Vasant Kunj (3rd)	220/66	1x100	100	Mar-07	Oct-09
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TOTAL (DTL) 220 kV

100

HIMACHAL PRADESH (HPSEB) :

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Total Capacity (MW/MVA)	Programme 2009-10 (MW/MVA)	Target	
					Original	Revised
Malana-II HEP						
1	Chhaur	132/220	3x42	126	Sep-09	
System Strengthening						
1	Pong (Aug) (40-20)	220/66	1x20	20	Mar-07	Dec-09
2	Jassure S/S	220/33	1x25	25	Mar-08	Jun-09
3	Baddi (Addl.)	220/66	1x100	100	Mar-08	Mar-10
TOTAL (HPSEB) 220 kV				271		
HARYANA (HVPN) :						
System Strengthening						
1	IMT Manesar (2nd)	220/66	1x100	100	Mar-06	Dec-09
2	Isharwal	220/132	1x100	100	Jun-08	Apr-09
3	Pehowa Aug (100-50)	220/132	50	50	Dec-08	Jun-09
4	Nissing Aug	220/132	100	100	Dec-08	Jun-09
5	Jind Aug	220/132	100	100	Jun-09	Aug-09
6	Guragaon Aug(Sector-56)	220/132	2x100	100	Jun-09	Jul-09
7	Tepla Aug	220/132	2x100	100	Jun-09	Jul-09
8	Cheeka Aug	220/132	1x100	100	Jun-09	
TOTAL (HVPN) 220 kV				750		
PUNJAB (PSEB) :						
Guru Hargobind TPS - II (2x250 MW)						
1	Himatpura S/S (New)	220/66	1x100	100	Dec.07	Mar-10
System Strengthening						
1	Mohali-II (New)	220/66	1x100	100	Mar-06	Sep-09
2	Kartarpur (Aug) (2nd)	220/66	1x100	100	Mar-06	Apr-09
3	Ferozepur Road Ludhiana	220/66	1x100	100	Mar-07	Sep-09
4	Nabha	220/66	1x100	100	Aug-07	Dec-09
5	Bagha Purana (U/G)	220/66	1x100	100	Dec-09	
6	Majitha (U/G)	220/66	1x100	100	Mar-09	Dec-09
TOTAL (PSEB) 220 kV				700		
RAJASTHAN (RVPN) :						
Chhabra TPS (2x250MW)						
1	Baran S/S	220/132	100	100	Sep-08	May-09
Suratgarh STPS (U-6 250 MW)						
1	Bhadra (Hanumangarh)	220/132	100	100	Oct-08	May-09
System Strengthening						
1	Renwal (Jaipur)	220/132	100	100	May-09	
2	Jaipur(Indira Gandhi Nagar) GSS	220/132	100	100	Apr-09	Dec-09
3	San chore	220/132	100	100	May-09	Sep-09
4	Mahindra SEZ	220/132	100	100	Apr-09	Dec-09

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Total Capacity (MW/MVA)	Programme 2009-10 (MW/MVA)	Target	
					Original	Revised

TOTAL (RVPN) 220 kV

600

UTTAR PRADESH (UPPCL) :

System Strengthening

1	Nanauta (160+100)	220/132	260	260	Mar-08	Sep-09
2	Sambhal, Muradabad	220/132	2x100	200	Dec-07	Dec-09
3	Gajraula	220/132	2x100	200	Mar-08	Dec-09
4	Dadri	220/132	2x100	200	Mar-08	Dec-09
5	Muzaffarnagar (160+100)	220/132	260	260	Mar-08	Jan-10
6	Jhansi	220/132	2x100	100	Dec-07	Aug-09
7	Sohawal	220/132	2x100	200	Mar-08	Aug-09
8	Basti Aug. (160-100)	220/132	60	0	Mar-08	Dec-09

TOTAL (UPPCL) 220 kV

1420

JAMMU & KASHMIR (J&K):

System Strengthening

1	Mirbazar	220/132	320	0	Mar-09	Mar-10
2	Bishnah	220/132	2x160	0	Mar-09	Mar-10
3	Ramban	220/132	1x160	120	Jun-09	Dec-09

TOTAL (J&K) 220 kV

120

TOTAL (NR) 220 kV

4061

WESTERN REGION (WR) :

CHHATTISGARH (CSEB) :

Bhilai TPP

1	Main step down GIS sub-station (MSDS)-5	220/132	2x160	320	May-09	Aug-09
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System Strengthening

1	Rajnandgaon	220/132	1x160	160	Mar-08	Aug-09
2	Doma	220/132	1x160	160	Apr-07	Jul-09

TOTAL (CSEB) 220 kV

640

GUJARAT :

Sugen(Akhakol),Torrent Power Limited (Private)

1	Puna	220/66	2x160	160	Mar-08	May-09
2	Bhatar	220/66	2x160	160	Mar-08	May-09
3	Ved GIS	220/66	2x160	320	Mar-08	Jun-09

System Strengthening

1	Kosamba	220/66	1x100	100	Mar-08	Aug-09
2	Bhat (Bavla)	220/66	1x100	100	Mar-09	Oct-09
3	Bala	220/11	2x50	100	Mar-09	Oct-09
4	Dudhre	220/11	1x50	50	Mar-09	Oct-09

TOTAL (GETCO&PVT) 220 kV

990

GOA :

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Total Capacity (MW/MVA)	Programme 2009-10 (MW/MVA)	Target	
					Original	Revised
1	Amona	220/33	2x50	100	Sep-08	Sep-09
TOTAL (GOA) 220 kV 220				100		
MADHYA PRADESH (MPPTCL) :						
Amarkantak TPP Extn. U 5-210 MW (SS&CS)						
1	Sidhi S/S	220/132	160	160	Mar-08	May-09
System Strengthening						
1	Chhatarpur	220/132	1x160	160	Mar-08	Aug-09
2	Piparia	220/132	1x160	160	Oct-08	Aug-09
3	Vidisha	220/132	1x160	160	Oct-08	Aug-09
4	Chindwara	220/132	1x160	160	Oct-08	Aug-09
TOTAL (MPPTCL) 220 kV				800		
MAHARASHTRA (MSEB) :						
System Strengthening						
1	Wather	220/33	2x50	100	Mar-08	Jun-09
2	Hingoli	220/132	2x100	100	Mar-08	Dec-09
3	Magarpatta	220/132	2x100	100	Dec-09	
4	Magarpatta	220/22	2x50	50	Dec-09	
5	Sonkhar	220/33	3x50	50	Apr-09	
6	Bapgaon	220/100	2x100	50	Mar-08	Dec-09
		220/33	2x50			
TOTAL (MSEB) 220 kV				450		
TOTAL (WR) 220 kV				2980		
SOUTHERN REGION (SR) :						
ANDHRA PRADESH (APTRANSCO) :						
Rayalseema St.II Unit-5 (210 MW)						
1	Pulivendula	220/132	2x100	100	Jun-09	Dec-09
System Strengthening						
1	Brandix	220/132	2x100	200	Mar-08	Jul-09
2	Palamaneru	220/132	2x100	100	Dec-09	
3	Bellampally	220/132	1x100	100	Oct-08	Sep-09
TOTAL (APTRANSCO) 220 kV				500		
KARNATAKA (KPTCL) :						
1	Nimhans	220/66	2x150	150	Sep-08	Sep-09
2	A Station compound	220/66	2x150	300	Sep-08	Dec-09
3	Tallak(2ndTrans.)	220/66	2x100	100	Dec-08	Apr-09
4	Haskote	220/66	2x100	100	Apr-08	Apr-09
5	Ramanagar(Kothipura)	220/66	2x100	100	Dec-07	Dec-09
TOTAL (KPTCL) 220 kV				750		
KERALA (KSEB) :						
1	Punnapra	220/110	2x100	100	Jun-07	Mar-10

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Total Capacity (MW/MVA)	Programme 2009-10 (MW/MVA)	Target	
					Original	Revised
2	Vadakara	220/110	2x100	100	Dec-08	Jul-09
TOTAL (KSEB) 220 kV				200		
TAMILNADU (TNEB) :						
1	Sriperumbudur SIPCOT	230/110	2x100	100	Sep-08	Apr-09
2	Basin Bridge(GMR Vasavi)	230/110	4x100	100	Jun-09	Sep-09
3	KITS Park	230/110	2x100	100	Mar-10	
TOTAL (TNEB) 230 kV				300		
TOTAL (SR) 220 kV				1750		
EASTERN REGION (ER) :						
BIHAR (BSEB) :						
System Strengthening						
1	Biharshariff Extn.	220/132	1x150	150	Mar-08	Jul-09
2	Dehri (Aug.)	220/132	1x100	100	Mar-09	Jan-10
3	Khagaul (Aug.)	220/132	1x100	100	Mar-09	Jan-10
4	Muzaffarpur (Aug.)	220/132	1x100	100	Dec-08	Mar-10
TOTAL (BSEB) 220 kV				450		
ORISSA (OPTCL) :						
System Strengthening						
1	Bolangir(2x100)	220/132	200	100	Sep-08	Jul-09
TOTAL (OPTCL) 220 kV				100		
WEST BENGAL (WBSETC) :						
Budge Budge Ext.(2x250 MW) 6/2009						
1	Kosba	220/132	3x160	160	Jun-09	Aug-09
System Strengthening						
1	Subhasgram	220/132	2x160	160	Feb-09	Sep-09
2	New Town AA-III	220/132	2x160	160	Dec-08	Jul-09
3	Singur	220/132	2x160	320	Sep-08	Sep-09
TOTAL (WBSETC) 220 kV				800		
TOTAL (ER) 220 kV				1350		
NORTH-EASTERN REGION (NER) :						
MEGHALAYA						
1	Byrnihat	220/132	2x160	160	Mar-10	
TOTAL (MeSEB) 220 kV				160		
TOTAL (NER) 220 kV				160		
Total (SS) 220 kV				10301		
Total (ALL INDIA) 220 kV				11361		

LIST OF TRANSMISSION LINES FOR 2010-11

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

765 kV Transmission Lines

Inter- Regional Trans. System

1 Western Region Strengthening Scheme - II

SET-A : For absorbing import in eastern and central part of WR

a 2nd S/C Seoni (PG)–Wardha (PG) line (initially to be operated at 400kV) S/C 268 Jul-10

2 SET–D: For Regional Strengthening in Northern M P

a 2nd S/C Bina (PG) – Gwalior(PG) 765kV (initially to be operated at 400kV) S/C 233 Jul-10

765 kV Total 501

400 kV Transmission Lines

1 Establishment of 440/220 kV GIS Pooling Station Near Chamera-II HEP

a Chamera Pooling Station - Chamera-II HEP (Part-I) S/C 1 Apr-10

2 Northern Region System Strengthening Scheme - X

a Gorakhpur - Lucknow D/C 510 Dec-10

3 Northern Region System Strengthening Scheme - XI

a Meerut -Kaithal (Q) (HSIL) D/C 320 Dec-10

4 Northern Region System Strengthening Scheme - XII

a Bahadurgarh-Sonepat line (Triple Cond.) D/C 104 Nov-10

5 Trans. System Associated with PARBATI-III HEP

a LILO of Parbati-II Koldam/Nalagarh 400 kV line at Parbati Pooling Point (Quad) D/C 20 Nov-10

b LILO of one 400 kV circuit of Parbati II-Parbati Pooling Point line (created as per point no. (i) at Parbati III HEP (Quad) D/C 7 Nov-10

c Parbati Pooling Point-Amritsar 400 kV line (ACSR Moose conductor) D/C 516 Nov-10

WESTERN REGION

6 Western Region Strengthening Scheme-II

SET-A : For absorbing import in eastern and central part of WR

a Wardha (PG)–Parli (PG) D/C 694 Jul-10

b Raipur(PG)–Wardha(PG) D/C 734 Jul-10

c Bhadravati(PG)-Parli(PG) D/C 776 Jul-10

d Parli (MSEB) – Parli (PG) D/C 14 Jul-10

SET-B: For Regional Strengthening in Southern Maharashtra (to be implemented through IPTC route)

a Parli(PG)-Pune(PG) D/C 616 Jul-10

b Pune(PG)-Aurangabad (MSEB) D/C 450 Jul-10

c Parli(PG)-SolaPUR (PG) D/C 392 Jul-10

d Solapur(PG)-Kolhapur(MSEB) D/C 378 Jul-10

e LILO of Lonikhand(MSEB)-Kalwa(MSEB) at Pune D/C 48 Jul-10

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6
	Pune				
	f LILO of Solapur(MSEB)-Karad(MSEB) at Solapur (PG)	S/C	52	Jul-10	
	SET-C: For Regional Strengthening in Gujarat (to be implemented through IPTC (route))				
	a Raigarh(PG)-Karamsad(GEB)	D/C	190	Jul-10	
	Limdbi(Chorania)(GEB)-Ranchodpura(Vadavi)(GEB)				
	b Ranchodpura(Vadavi)(GEB)-Zerda(Kansari)GEB	D/C	310	Jul-10	
	SET-D: For Regional Strengthening in Northern Madhya Pradesh				
	a Korba (NTPC) – Birsinghpur (MPGENCO)	D/C	462	Jul-10	
	b Birsinghpur (MPGENCO) – Damoh	D/C	454	Jul-10	
	c Damoh – Bhopal (MPEB)	D/C	430	Jul-10	
7	Western Region Strengthening Scheme-V				
	a Vapi (PG) - Navi Mumbai	D/C	370	Sep-10	
	b LILO of Lonikhand (MSEB)- Kalwa at Navi Mumbai	D/C	9	Sep-10	
8	Western Region Strengthening Scheme-VI				
	a Pirana-Dehgam	D/C	106	Nov-10	
9	Western Region Strengthening Scheme-IX				
	a LILO of Bina - Nagda at Sujalpur	D/C	60	Jan-11	
	SOUTHERN REGION				
10	Trans. System Assciated with CHENNAI NTPC - TNEB JV TPS.				
	a LILO of Alamathy - Sriperumbdur at North Chennai TPS Sw. Yd.	D/C	56	Jul-10	
	EASTERN REGION				
11	Eastern Region Strengthening Scheme-II				
	a Durgapur - Maithon line	D/C	146	Jun-10	
12	Transmission System for Start up Power to DVC and Maithon Right Bank Gen. Project				
	a Koderma-Biharshariff (Quad)	D/C	160	Apr-10	
	b Maithon RB - Maithon line	D/C	60	Apr-10	
	c LILO of one ckt of Maithon - Jamshedpur line at Mejia	D/C	90	Apr-10	
	TOTAL (PGCIL) 400 kV		8535		
	<u>Damoder Valley Corporation</u>				
	Durgapur TPS (2x500 MW)				
	1 Durgapur STPS - Raghunathpur	D/C	138	May-10	
	Raghunathpur TPS(2x600 MW)				
	1 Raghunathpur-Ranchi (PG)	D/C	301	Sep-10	
	Koderma TPS(2x500 MW)				
	1 Koderma - Biharsarriiff	D/C	220	Sep-10	
	2 Koderma -Gaya	D/C	160	Sep-10	
	400 kV Total (DVC)		819		
	TOTAL (CS) 400 kV		9354		

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

400 kV STATE SECTOR :

NORTHERN REGION (NR) :

RAJASTHAN (RVPN) :

1	Chabra TPS-Dahraalkota	D/C	130	Mar-11	
2	Dahra/Kota-Heerapur	D/C	380	Mar-11	
3	Jaisalmer-Jodhpur	S/C	250	Jun-10	
4	Jaisalmer-Barmer	S/C	180	Jun-10	

Total 810

UTTAR PRADESH (UPPCL) :

Parichha TPS (2x250MW)

1	parichha - Orai	D/C	200	Dec-10	
2	Tanda-Gonda	D/C	240	Dec-10	
3	LILO of Sultampur-Azamgarh at Tanda	D/C	60	Dec-10	

Total 500

UTTARAKHAND

1	Vishnugad-Pipalkoti	D/C	20	Mar-11	
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Total 20

Total (NR) 400 kV 1330

WESTERN REGION (WR) :

CHHATTISGARH (CSEB) :

1	LILO Korba (West)-Bhilai at Raipur (CSEB)	D/C	100	Mar-10	Dec-10
2	Bilaspur-Sipat (PG)	D/C	80	Dec-10	
3	Bhaiyathan-Premnagar	S/C	56	Jun-10	

Total 236

GUJARAT (GETCO) :

1	Adani-Zerda	2xD/C	662	Dec-10	
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Total 662

MAHARASHTRA (MSEB) :

Khaperkheda (1x500)

1	New Khaperkheda - Koradi	S/C	5	Jun-10	
2	LILO of Koradi- Chandrapura at New Khaperkheda	D/C	3	Jun-10	

JSW Energy (Ratnagiri)

1	Jaigad - New Koyna	D/C	104	Jun-10	
2	Jaigad - Karad	D/C	224	Jun-10	
1	Dhopave-Padghe II	D/C	360	Mar-11	
2	LILO of Jaigad-New Koyna at Dhopave	D/C	100	Mar-11	

Total 796

MADHYA PRADESH

1	Indore-Pithampur	D/C	100	Mar-11	
2	Malwa-Pithampur	D/C	300	Mar-11	

Total 400

TOTAL (WR) 400 kV 2094

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Kothagudem-Khammam	D/C	136	May-10	
2	Yeddumailaram-Gajwel	D/C	214	Mar-11	
3	Budidampadu-Miryalaguda(2nd Ckt)	S/C	60	Dec-10	
4	LILO of Malakaram-Shapurnagar at Gunrock	D/C	34	Dec-10	
5	Chandrayanagutta-Imliban(UG Cable)		23	Dec-10	
6	LILO of Gachibowli-Shapurnagar at Raidurg (Madapur) (UG Cable)		15	Oct-10	
	Total		482		

Karnataka(KPTCL)

Lanco Nagarujuna (Uduppi) TPS

1	NPCL - Hassan(Shantigrama)	D/C	360	Jul-10	
	Total		360		

TAMILNADU (TNEB) :

System Strengthening

1	LILO of Sriperumbudur- Kalivanthapattu at Sunguvarchatram	D/C	22	Jun-10	
2	Alamathy -Sunguvarchatram	D/C	82	Jun-10	
	Total		104		

Total (SR) 400 kV 946

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

EASTERN REGION (ER) :

WEST BENGAL (WBSETC) :

1	Khargapur - KTPS	S.C	174	Mar-11
2	LILO of KTPS-Baripada at Khargapur	D/C	7	Mar-11

Total 181

JHARKHAND

1	Patratu-Ranchi(PG)	D/C	100	Feb-11
2	Jasidih-Barh (NTPC)	D/C	300	Feb-11
3	Jasidih-Rupnarayanpur (PG)	D/C	225	Feb-11
4	Jasidih-Koderma(UMPP)	D/C	220	Feb-11

Total 845

TOTAL (ER) 400 kV 1026

TOTAL (State Sector) 400 kV 5396

TOTAL (All India) 400 kV 14750

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

Western Region Strengthening Scheme - III

1	Vapi -Khadoli (UT of DNH)	D/C	56	Sep-10
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TOTAL (CS) 56

220 kV STATE SECTOR :

NORTHERN REGION (NR) :

CHANDIGARH :

1	Nalagarh-Mohali	S/C	47	Mar-11
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Total 47

DELHI (DTL) :

1	LILO of Mehrauli-Bamnauli at DIAL (U/G Cable)		24	Sep-10
2	Naraina-Ridge Valley (U/G Cable)		5	Jun-10
3	Ridge Valley-AIIMS (U/G Cable)		13	Dec-10

Total 42

HIMACHAL PRADESH (HPSEB) :

1	LILO of Kashang-Bhaba at Bhoktoo	D/C	63	Dec-10
2	Nalagarh (PG)-Reeru Majra	D/C	6	Dec-10

Total 69

HARYANA (HVPN) :

1	LILO of Palli-Sector 52 A, Gurgaon at Gurgaon, Sector-56	D/C	2	Apr-10
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Total 2

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

PUNJAB (PSEB) :

1	Shahpur Kandi Ph I-Ph II	D/C	6	Mar-11
2	Shahpur Kandi Ph 1-Sarna	D/C	30	Mar-11

Total 36

Rajasthan

1	Merta-Makrana-Kuchaman	S/C	115	Mar-11
2	Bhiwadi(PG)-Bhiwadi	S/C	10	Mar-11

Wind Power (1890 MW)

1	LILO of both ckts of Amarsagar - Barmer at Akai (Jaisalmer)	2xD/C	68	Dec-10
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Total 68

UTTAR PRADESH (UPPCL) :

Roza TPS (2x300)

1	Roza - Shahjahanpur	D/C	50	Dec-10
2	Roza - Hardoi	D/C	160	Dec-10
3	Roza - Badaun	D/C	180	Dec-10

Harduaganj (2x250)

1	Harduaganj - Jahangirpur	D/C		Dec-10
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System Strengtening

1	LILO of Saharanpur-Shamli at Nanauta	D/C	6	Jun-10
2	LILO of Moradabad-CB Ganj at Rampur	D/C	12	Jun-10
3	LILO of Tanda-Sultanpur at Tanda	D/C	10	Dec-10

Total 418

UTTARAKHAND (PTCUL)

1	Bhilangana-Gansali	D/C	36	Jun-10
2	LILO of Bhilangana-Ghansali at Bhilangana II	D/C	2	Jun-10
3	Roorkee(PG)-Roorkee	D/C	14	Jun-10

Total 52

JAMMU & KASHMIR (J&K) :

1	Ziankote-Alustang-Mirabazar	D/C	254	Jun-10
2	Ziankote-Amargarh	D/C	85	Jun-10
3	Bishnah-Hira Nagar	D/C	89	Jun-10
4	Barn-Bishnah	D/C	75	Jun-10

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

5 Miran Sahib-Bishnah D/C 19 Jun-10

Total 522
TOTAL (NR) 220 kV 1256

WESTERN REGION (WR) :

CHATTISGARH(CSEB) :

1 Bhatapra(PGCIL)-Suhela(Bhatapara) D/C 27 Jun-10

Total 27

GUJARAT :

1 Utran-Kosamba 2xD/C 180 Jul-10

2 Kosmba-Mohba D/C 200 Jul-10

3 LILO of Karmsad-Vartej at Dhuvaran D/C 60 Mar-11

4 LILO of Kasor-Vartej at Dhuvaran D/C 60 Mar-11

Total 500

MADHYA PRADESH (MPPTCL) :

Amarkantak TPP Extn. U 5-210 MW

1 LILO Amarkantak-Birsinghpur at Sukha (PG) 2xD/C 300 Apr-09 Dec-10
2xD/C

Maheshwar

1 Maheshwar - Neemrana D/C 54 Apr-09 Dec-10

2 Maheshwar - Pithampur D/C 108 Apr-09 Dec-10

3 Maheshwar - Rajgarh D/C 230 Apr-09 Dec-10

System Strengthening

1 Astha-Indore D/C 200 Mar-11

2 Ujjain-Dewas D/C 90 Mar-11

3 Chhindwara-Betul D/C 270 Feb-09 Dec-10

4 Chegaon-Nimrani D/C 220 Feb-09 Jun-10

Total 1472

MAHARASHTRA (MSETCL) :

Khaperkheda

1 New Khaperkheda- Khaperkheda (Existing) 2xD/C 28 Jun-10

System Strengthening

1 Dhopave-Dasturi D/C 80 Mar-11

2 LILO of Chandrapur-Warora at Warli D/C 92 Jun-10

Total 200

TOTAL (WR) 220 kV 2199

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

Rayalseema St.II Unit-5 (210 MW)

1	Pulivendula-Hindupur	D/C	238	Dec-07	Dec-10
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System Strengthening

1	Oglapur 400kV S/S- Durshed	D/C	103	Jun-10	
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1	Vijayawada TPS-Tallapally	D/C	130	Jun-08	Jun-10
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2	Veltoor- Wanaparthy	D/C	40	Jun-08	Dec-10
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3	Ramagunda-Bellampalli	S/C on D/C	43	Jun-10	
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Total 316

KARNATAKA (KPTCL) :

1	Chikkodi-Kudachi	D/C	70	Sep-06	Jun-10
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2	Tubinakere- Kothipura	D/C	137	Jun-09	Jun-10
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3	Basthipura-Kushalanagara	D/C	154	Jun-09	Jun-10
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4	Narendra 400kV S/S- Mahalingapur	D/C	246	Jun-09	Jun-10
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6	Narendra 400 kV S/S- Ghataprabha	D/C	190	Oct-08	Jun-10
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Total 797

KERALA (KSEB) :

1	Pothencode- Kattakada	D/C	57	Mar-11	
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2	LILO both ckts of Kalamassery-Brahmapuram at Pallikkara (Kochi East)	M/C	20	Dec-07	
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Total 77

TAMILNADU (TNEB) :

1	Arasur 400kV S/S- Arasur 230kV S/S	D/C	38	Sep-08	Apr-10
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1	Mylapore-Tharamani (Cable)		13	Mar-11	
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2	Elephant gate-Mylapore (Cable)		11	Mar-11	
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3	Kalivanthapathu-Kadapperi	D/C	40	Mar-11	
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4	Karaikudi-Sembatty	S/C	140	Mar-11	
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5	Arasur-Karamadai	S/C	48	Mar-11	
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6	LILO of K.R.Thoppur-Ingur at Chithode	D/C	14	Mar-11	
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7	Villupuram-Ulundurpet	S/C	52	Mar-11	
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8	Kavanur-Karaikudi	S/C on D/C	82	Mar-11	
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Total 438

TOTAL (SR) 220 kV 1628

Sl. No.	Name of the Transmission Line	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

EASTERN REGION (ER) :

BIHAR (BSEB) :

System Strengthening

1	Begusarai-Purnea	D/C	346	Sep-03	Jul-10
2	LILO of 2nd ckt of Fatuha- Khagaul at Sipara(New)	D/C	19	Dec-08	Jul-10
3	Link line between Patna(PG) - Sipara(BSEB)	D/C	1	Dec-08	Jul-10
Total			366		

ORISSA (OPTCL) :

System Strengthening

1	Bidanasi-Cuttack	D/C	21	Dec-10	
Total			21		

JHARKHAND (JSEB) :

System Strengthening

1	Chaibasa -Ravachandrapur	D/C	80	Jun-10	
2	Govindpur-TTPS	D/C	213	Jun-10	
3	Dumka-Govindpur	D/C	226	Jun-10	
4	Dumka-Rupnarayanpur	D/C	164	Jun-10	
5	Chatra-Latehar	D/C	120	Nov-10	
6	LILO of PTPS-B'Gaya at Chatra	D/C	80	Nov-10	
7	Hazaribagh-Hazaribagh (DVC)	D/C	25	Nov-10	
8	Jasidih-Govindpur	D/C	150	Nov-10	
9	Jisidih-Giridih	D/C	160	Nov-10	
10	Giridih-Govindpur	D/C	110	Nov-10	
11	Jisidih-Dumka	D/C	146	Nov-10	
12	LILO of B'Gaya-PTPS at Hazaribagh	D/C	80	Nov-10	
13	Hatia-Ranchi (PG)	D/C	100	Nov-10	
Total			1654		

WEST BENGAL (WBSETC) :

Teesta LD IV HEP(4x40 MW)

1	Teesta LD IV - NJP D/C	D/C	145	Mar-11	
2	Teesta LD III -Teesta LD IV S/C	S/C	21	Mar-11	

System Strengthening

1	Kharagpur -Midnapur	D/C	72	Sep-10	
2	Kharagpur -Narayangarh	D/C	50	Mar-11	
3	LILO of STPS-Binshnupur at Hura	D/C	80	Mar-11	

Total 368

TOTAL (ER) 220 kV 2409

TOTAL (STATE SECTOR) 220 kV 7492

TOTAL (ALL INDIA) 220 kV 7548

LIST OF SUB-STATIONS FOR 2010-11

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

400/220 kV Substations

NORTHERN REGION

1 Northern Region System Strengthening-VII

a Ludhiana S/Stn. 3rd ICT 400/220 1x315 315 May-10

b Wagoora S/Stn. 4th
ICT(3x105) 400/220 1x315 315 May-10

2 Northern Region System Strengthening-XII

a Sonapat S/S 400/220 2x315 630 Nov-10

b Bahadurgarh S/S (Extn.) 400/220 2x315 630 Nov-10

c Nallagarh S/S (Extn.) 400/220 2x315 630 Nov-10

d Kota S/S (Extn.) 400/220 2x315 630 Nov-10

e Bhiwadi S/S (Extn.) 400/220 2x315 630 Nov-10

3 SET-B: For Regional Strengthening in Southern Maharashtra

a Pune S/S 400/220 2x315 630 Jul-10

b Solapur 400/220 2x315 630 Jul-10

c Parli S/S (Extn.) 400/220 2x315 630 Jul-10

d Aurangabad S/S (Extn.) 400/220 2x315 630 Jul-10

e Kolhapur S/S (Extn.) 400/220 2x315 630 Jul-10

4 Western Region Strengthening Scheme - V

a Navi Mumbai (GIS) 400/220 2x315 630 Sep-10

b Vapi (PG) S/S (Extn.) 400/220 2x315 630 Sep-10

c Khadoli (UT & DNH) S/S 400/220 2x315 630 Sep-10

5 Western Region Strengthening Scheme - VI

a Pairana S/S 400/220 2x315 630 Nov-10

b Wardha S/S (Extn.) 400/220 1x315 315 Nov-10

c Pune S/S (Extn.) 400/220 1x315 315 Nov-10

d Gwalior S/S (Extn.) 400/220 1x315 315 Nov-10

e Raipur S/S (Extn.) 400/220 1x315 315 Nov-10

f Bina S/S (Extn.) 400/220 1x315 315 Nov-10

g Dehgam S/S (Extn.) 400/220 1x315 315 Nov-10

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

6 Western Region Strengthening Scheme - VII

a	Khandwa S/S (Extn.)(420 kV 400/220 125 MVAR BR)				Nov-10	
b	Dehgam S/S (Extn.) (420 kV 400/220 125 MVAR BR)				Nov-10	

7 Western Region Strengthening Scheme - IX

a	Shujalpur S/S	400/220	2x315	630	Jan-11	
b	Vapi (PG) S/S (Extn.)	400/220	1x315	315	Jan-11	
c	Dehgam S/S (Extn.)	400/220	1x315	315	Jan-11	

TOTAL (CS) 400 kV 2205

400 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

DELHI

1	Mundka (2x315)	400/220	2x315	630	Jun-10	
Total				630		

HARYANA (HVPN) :

Hissar TPS

1	Kirori	400/220	3x315	945	Nov-09	
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Jhajjar - I TPS

1	Daultabad	400/220	2x315	630	Oct-10	
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Total 1575

RAJASTHAN (RVPN)

1	Jaisalmer	400/220	2x315	630	Jun-10	
2	Barmer	400/220	1x315	315	Jun-10	

Total 945

UTTAR PRADESH (UPPCL) :

1	Bagpat	400/220	3x315	945	Mar-08	Jun-10
2	Paricha Extn.	400/220	2x315	630	Dec-10	
3	Allahabad (Reewan)	400/220	2x315	630	Dec-10	
4	Greater Noida Sector-13	400/220	2x315	630	Mar-11	

Total 2835

TOTAL (NR) 400 kV 5985

WESTERN REGION (WR) :

Chhattisgarh

1	Raipur	400/220	2x315	630	Dec-10	
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Total 630

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

Madhya Pradesh

1	Pithampur	400/220	2x315	630	Dec-12	
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Total				630		
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MAHARASHTRA

1	Dhopave	400/220	2x315	630	Mar-11	
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Total				630		
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TOTAL (WR) 400 kV				1260		
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SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Yeddumailaram	400/220	3x315	945	Jun-10	
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2	Malkaram	400/220	2x315	315	Sep-08	May-10
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Total				1260		
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TAMIL NADU

1	Sunguvarchatram	400/230	2x315	630	Mar-11	
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2	Kanarpatty	400/230	3x315	945	Mar-11	
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Total				1575		
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TOTAL (SR) 400 kV				2835		
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EASTERN REGION (ER) :

JHARKHAND

1	Patratu	400/220	2x315	630	Feb-11	
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2	Chandil	400/220	2x315	630	Feb-11	
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3	Dumka	400/220	2x315	630	Feb-11	
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4	Chaibasa	400/220	2x315	630	Feb-11	
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5	Torpa	400/220	2x315	630	Feb-11	
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Total				3150		
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WEST BENGAL (WBSEB) :

	Kharagpur	400/220	2x315	630	Mar-11	
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Total				630		
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TOTAL (ER) 400 kV				3780		
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TOTAL (SS) 400 kV				13860		
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TOTAL (ALL INDIA) 400 kV				16065		
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220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

Eastern Region Strengthening Scheme II

a	Baripada S/Stn 2nd ICT Extn.	220/132	1x160	160	Jun-10	
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Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity (MW/MVA)	Total (MVA)	Target	
					Original	Revised

DAMODER VALLEY CORPORATION (DVC) :

1	Gola (2x50 MVA)	220/33	100	100	Dec-10	
2	Giridih (2x150+2x80)	220/132	460	460	Oct-10	
3	Koderma	220/132	2x100	200	Jul-10	

Total(CS) 920

220 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

DELHI (DTL) :

Commonwealth Games

1	Masjid-Moth (Sirifort)	220/33	2x100	200	Mar-06	Jun-10
2	Electric Lane (GIS)	220/33	2x160	320	Mar-08	Jun-10
3	Trauma Centre/AIIMS (GIS)	220/33	2x160	320	Mar-08	Jun-10
4	Ridge Valley	220/33	2x160	320	Jun-10	

System Strengthening

1	Shalimar Bagh (3rd)	220/33/11	1x100	100	Mar-06	Jun-10
2	Gopalpur (4th)	220/33	1x100	100	Mar-07	Apr-10

Total 1360

HIMACHAL PRADESH (HPSEB) :

1	Bokhtoo S/S 1x25 MVA	220/66	1x25	25	Mar-08	Dec-10
2	Reeru Majra (Nalagarh)	220/132	2x100	200	Dec-10	

Total 225

HARYANA (HVPN) :

1	Gurgaon Sector-20 (GIS)	220/66	2x100	200	Jun-10	
2	Gurgaon Sector-57 (GIS)	220/66	2x100	200	Jun-10	

Total 400

PUNJAB (PSEB) :

1	Pakhowal (new) (1x100)	220/66	100	100	Mar-06	Dec-10
2	Doraha (U/G) (1x100 MVA)	220/66	100	100	Jun-10	
3	Kohara (Aug) (1x100 MVA)	220/66	100	100	Jun-10	
4	Sadiq (U/G) (1x100 MVA)	220/66	100	100	Apr-10	

Total 400

UTTAR PRADESH (UPPCL) :

a	Azamgarh Extn	220/132	160+100	260	Dec-10	
b	Gajokhar	220/132	2x100	200	Mar-11	

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity (MW/MVA)	Total (MVA)	Target	
					Original	Revised
c	Mirzapur	220/132	2x100	200	Mar-11	
d	Deorid (2nd Trans)	220/132	1x100	100	Mar-11	
Total				760		
UTTARAKHAND (PTCUL) :						
1	Dehradun	220/132	2x100	200	Jun-06	Dec-10
2	Ghansali	220/132	2x50	100	Dec-10	
Total				300		
JAMMU & KASHMIR (J&K):						
1	Alusteng	220/132	320	320	Sep-09	Jun-10
2	Budgam	220/132	320	320	Mar-09	Jun-10
3	Amargarh	220/132	160	160	Sep-09	Jun-10
Total				800		
TOTAL (NR) 220 kV				4245		
WESTERN REGION (WR) :						
CHHATTISGARH (CSEB) :						
1	Vishrampur	220/132	1x160	160	Apr-07	Jun-10
Total				160		
GUJARAT :						
1	Lakhani(Agathala)	220/66	2x100	200	Apr-10	
2	Botad	220/66	1x50	50	Mar-08	Jun-10
Total				250		
GOA :						
1	Cuncoilm	220/33	3x50	150	Dec-10	
Total				150		
MAHARASHTRA (MSEB) :						
1	Chakan	220/132	2x200	400	Mar-08	Dec-10
2	Chakan	220/33	2x50	100	Mar-08	Dec-10
3	Shendra	220/33	2x50	100	Mar-08	Sep-10
Total				600		
TOTAL (WR) 220 kV				1160		
SOUTHERN REGION (SR) :						
ANDHRA PRADESH (APTRANSCO) :						
1	Bellamapally	220/132	2x100	200	May-10	
2	Malyala	220/11	4x31.5	126	Jun-10	

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity (MW/MVA)	Total (MVA)	Target	
					Original	Revised
3	Settipally	220/11	3x25	50	Jun-10	
4	Sadasivpet	220/132	2x100	200	Jun-10	
5	Jurala	220/132	2x100	200	Jun-10	
6	Suryapet	220/132	2x100	200	Dec-10	
7	Gunrock	220/132	2x100	200	Dec-10	
8	Raidurg	220/132	2x100	200	Oct-10	
Total				776		
KARNATAKA (KPTCL) :						
1	East Division Compound	220/160	2x150	300	Mar-11	
2	Sarjapura	220/66	2x100	200	Mar-11	
3	Jigani	220/66	2x150	300	Mar-11	
4	MK Hubli	220/110	2x100	200	Mar-11	
5	Ghataparbha	220/110	2x100	200	Mar-11	
Total				1200		
KERALA (KSEB) :						
1	Punnapra	220/110	2x100	200	Jun-07	Mar-11
2	Kattakada	220/110	2x100	200	Mar-11	
Total				400		
TAMILNADU (TNEB) :						
1	Aliyar	230/110	2x100	200	Mar-11	
2	Chithode	230/110	2x100	200	Mar-11	
3	Guindy	230/110	2x100	200	Mar-11	
4	TNEB HQ	230/110	2x100	200	Mar-11	
5	Ulundurpet	230/110	2x100	200	Mar-11	
6	Karamadai	230/110	2x100	200	Mar-11	
7	Karambayam (Nemeli Thippi	230/110	2x100	200	Mar-11	
8	Vyasarpadi	230/110	2x100	200	Mar-11	
9	Pallakkapalayam	230/110	2x100	200	Mar-11	
Total				1600		
TOTAL (SR) 220 kV				3976		
EASTERN REGION (ER) :						
BIHAR (BSEB) :						
1	Begusarai(2x100)	220/132	2x100	200	May-08	Jul-10
2	Hazipur (2x100)	220/132	2x100	200	May-08	Jan-11
3	Sipara(2x150)	220/132	2x150	300	May-08	Jun-10
4	Pusauli	220/132	2x150	300	Mar-09	Mar-11
Total				1000		

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

JHARKHAND (JSEB) :

1	Chaibasa	220/132	2x100+ 2x50	300	Jun-10
2	Dumka	220/132	300	300	Jun-10
3	Govindpur	220/132	300+50	350	Jun-10
4	Hazaribagh	220/132	300+50	350	Nov-10
5	Jasidih	220/132	300	300	Nov-10
6	Chatra	220/132	300+50	350	Nov-10

Total 1950

ORISSA (OPTCL) :

1	Karadagadia	220/132	2x160	320	Mar-11
2	Bonai	220/33	2x40	80	Mar-11
3	Mendhasal	220/33	1x20	20	Mar-11
4	Bidanasi	220/33	1x40	40	Mar-11

Total 460

WEST BENGAL (WBSETC) :

1	Dalkhola	220/132	2x160	320	Mar-11
2	Hura	220/132	2x160	320	Mar-11
3	Narayangarh	220/132	2x160	320	Mar-11

Total 960

TOTAL (ER) 220 kV 4370

Total (SS) 220 kV 13751

Total (ALL INDIA) 220 kV 14671

LIST OF TRANSMISSION LINES FOR 2011-12

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

765 kV Transmission Lines

CENTRAL SECTOR

NORTHERN REGION

1 765KV System for Central Part of Northern Grid - PART-I

a Meerut - Agra	S/C	260	Feb-12
b Agra - Jatikalan	S/C	240	Feb-12
c Jatikalan - Bhiwadi - Mog	S/C	355	Feb-12

WESTERN REGION

2 Western Region Strengthening Scheme - X

a LILO of Sipat - Seoni line at WR Pooling station Near Sipat	S/C	14	Feb-12
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3 Western Region Strengthening Scheme - XI

a LILO of Sipat - Seoni (2nd Ckt) at WR Pooling station Near Sipat	S/C	24	Feb-12
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765 kV Total 893

765 STATE SECTOR

UTTAR PRADESH (UPPCL) :

1 Anpara D-Unnao	D/C	820	Dec-11
2 Bara-Fatehpur (PG)	S/C	125	Dec-11
3 Bara-Mainpuri	S/C	400	Dec-11

765 kV Total 1345

400 kV Transmission Lines

CENTRAL SECTOR

NORTHERN REGION

1 URI - II HEP Trans. System

a URI I - URI II	S/C	12	May-11
b URI II -Wagoora	S/C	102	May-11

2 Transmission System Associated with Chamera-III HEP

a Pooling Station near Chamera-III HEP - Jullandur line	D/C	308	Jul-11
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3 Northern Region System Strengthening Scheme - IX

a Kanpur - Ballabgarh	D/C	788	Jul-11
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Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

4 Northern Region System Strengthening Scheme - XV

a Manesar - Neemrana	D/C	180	Nov-11
b Bhiwadi - Neemrana	D/C	120	Nov-11
c LILO of Bhiwadi - Bassi at Kotputli	D/C	15	Nov-11

5 Northern Region System Strengthening Scheme - XVII

a Neemrana - Sikar	D/C	320	Aug-11
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6 Northern Region System Strengthening Scheme - XVIII

a Dehradun - Bagpat	D/C	340	Nov-11
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7 Northern Region System Strengthening Scheme - XIX

a LILO of Meerut - Kaithal at Bagpat	D/C	144	Feb-12
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8 System Strengthening in Northern Region Grid for Karcham-WangtooHEP

a Abdullapur - Sonapat	D/C	300	Sep-11
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9 Trans. System Associated with RAMPUR HEP.

a Patiala - Ludhiana	D/C	156	Nov-11
b LILO of Nathpa Jhakri - Nalagarh at Rampur	D/C	8	Nov-11
c LILO of Patiala - Hissar at Kaithal	D/C	66	Nov-11

10 Northern Region System Strengthening Scheme XIII

a Gurgaon-Maneswar (Q)	D/C	36	Nov-11
b Delinking Agra-Samaypur-Gurgaon lines & making 400 kV S/C Agra-Gurgaon line	D/C	2	Nov-11

11 765KV System for Central Part of Northern Grid - PART-I

a LILO of both ckt of Mundka/Bawana - Bamnoui at Jatikalan (Q)	2xD/C	10	Feb-12
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WESTERN REGION

12 Trans. System Associated with KORBA - III

a Korba STPS- Raipur	D/C	430	Jun-11
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13 Western Region Stregthening Scheme X

a LILO of 765 Kv Sipat-Seoni line at WR Pooling station near Sipat	D/C	14	Feb-12
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14 Western Region Stregthening Scheme XI

a LILO of 765 Kv IInd Sipat-Seoni line at WR Pooling station near Sipat	D/C	24	Feb-12
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SOUTHERN REGION

15 Trans. System Assciated with Tuticorin TPS (JV)

a Tuticorin JV - Madurai	D/C	316	Feb-12
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Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

16 System Strengthening -IX of SR

a Mysore - Hassan D/C 200 Feb-12

17 System Strengthening -XI of SR

a LILO of both ckt of Udumalpet - Madakathara at Chulliar 2xD/C 104 Jul-11

EASTERN REGION

18 Trans. System Associated with FARAKKA - III

a Farakka - Kahalgaon D/C 214 Jun-11

NORTH EASTERN REGION

19 North East / Northern Western Interconnector -I Project

Part-A : North East - Northern/ Western Interconnector -I

a LILO of Ranganadi - Balipara 400KV D/C line at Biswanath Chariyali (Pooling Point) D/C 54 Jun-11

TOTAL (PGCIL) 400 kV 4263

400 kV STATE SECTOR :

NORTHERN REGION (NR) :

RAJASTHAN (RVPN) :

1	Kalisindh-Ajmer	D/C	580	Sep-11
2	Kalisindh-Dahra (Kota)	D/C	200	Dec-11
3	Ajmer-Heerapur	D/C	250	Dec-11
4	LILO of Ajmer-Beawar at Ajmer	D/C	250	Dec-11
5	Kalisindh-Jhalawar	D/C	250	Dec-11

UTTAR PRADESH (UPPCL) :

1	Anpara B-Anpara D	D/C	60	Dec-11
2	Bera-Meja	D/C	50	Dec-11
3	Bara-Karchhana	D/C	60	Dec-11
4	Karchhana-Rewa	D/C	60	Dec-11

UTTARAKHAND (UPTCL) :

1	Srinagar-Kahipur	D/C	140	Oct-11
2	Lohari Nagpal-Koteshwar	D/C	180	Jun-11
3	LILO of Lohari Nagpala-Koteshwar PP at Pala Maneri	D/C	16	Jun-11
4	LILO of Vishugad-Pipalkoti at Pipalkoti	D/C	6	Mar-12
5	LILO of Vishnuprayag-Muzzafarnagar at Pipalkoti	D/C	10	Mar-12

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

WESTERN REGION (WR) :

CHHATTISGARH (CSEB) :

1	Korba West-Khedamara	D/C	440	Jul-11	
2	Khedamara-Raipur	D/C	100	Jul-11	
3	LILO of Korba West-Bhilai at Raipur	D/C	50	Jul-11	
4	Korba South-Bilaspur (Raipur)	D/C	200	Oct-11	
5	Marwa-Raipur	D/C	480	Jun-11	
6	LILO of Korba(West)-Khedamara at Marwa	D/C	60	Jun-11	

MAHARASHTRA (MSEB) :

1	Koradi-Akola	2xS/C	480	Mar-12	
2	LILO of Bhusawal-Koradi at Koradi II	D/C	30	Mar-12	
3	LILO of Satpura-Koradi at Koradi II	D/C	30	Mar-12	
4	LILO of Chandrapur-Parli at Chandrapur-II	D/C	4	Mar-12	
5	Chandrapur-Wardha (PGCIL) via Warora	D/C	262	Mar-12	
6	Bhusawal(Khadka)-Bhusawal II	D/C	20	Mar-12	
7	Bhusawal II-Aurangabad	D/C	370	Mar-12	

MADHYA PRADESH

1	Satpura-Astha	D/C	470	Mar-12	
2	Malwa-Chhegaon-Julwania	D/C	360	Mar-12	

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Bhoopalapally -Gajwel	D/C	260	Apr-11	
2	Vijayawada TPS- Malkaram	D/C	536	Mar-12	
3	Hyderabad-Yeddemailaram	D/C	216	Mar-12	
4	LILO of Srisaillam-Vijayawada at Narasaraopet	D/C	5	Dec-07	Apr-11
5	Narasaraopet -Vemagiri	D/C	170	Dec-07	Mar-12

TAMILNADU (TNEB) :

North Chennai TPS

1	LILO of Alamathy-S.V.Chatram at NCTPS	D/C		Mar-12	
2	NCTPS Stage II-Tiruvalam	D/C		Mar-12	
3	Tiruvalam-Singarpet	S/C on D/C		Mar-12	

Mettur TPS

1	MTPS Stage-III-Singarpet	D/C		Mar-12	
2	MTPS Stage-III-Arasur pspm(cea)	D/C		Mar-12	

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

EASTERN REGION (ER) :

ORISSA (OPTCL) :

1 LILO of Baripada-Mendhasal at Duburi D/C 100 Mar-12

JHARKHAND

1 Koderma-Jasidih D/C 250 Jun-12

Koderma-Patratu D/C 200 Jun-12

WEST BENGAL (WBSETC) :

1 Sagardighi-Gokarna D/C 100 Mar-12

2 Gokarna-Jagatballavpur D/C 320 Mar-12

3 Jagatballavpur-Kharagpur D/C 320 Mar-12

4 Jagatballavpur-Subhasgram D/C 240 Mar-12

5 Bakreswar-Jagatballavpur D/C 180 Mar-12

6 Katwa-Gokarna D/C 120 Mar-12

7 Katwa-Jagatballavpur D/C 200 Mar-12

220 kV CENTRAL SECTOR (CS) :

POWERGRID (PGCIL) :

Trans. System associated with Chamera III HEP

Chamera II-Pooling station near Chamera II S/C 34 Jul-11

220 kV STATE SECTOR :

NORTHERN REGION (NR) :

HIMACHAL PRADESH (HPSEB) :

1 Sawra-Kuddu-Hatkoti D/C 25 Mar-12

2 Hatkoti-Moginand D/C 266 Mar-12

3 Monginand-Abdullapur D/C 124 Mar-12

WESTERN REGION (WR) :

CHATTISGARH(CSEB) :

KORBA WEST

1 Khedamara-Rajnandgaon D/C 55 Jul-11

2 Khedamara-Bemetara D/C 60 Jul-11

3 Korba(E)-Chhuri (Korba) D/C 30 Jul-11

4 LILO of Korba-Bhilai at Chhuri D/C 30 Jul-11

5 LILO of Korba-Bhatapara at Chhuri (Korba) D/C 2.5 Jul-11

GUJARAT :

1 GSEB-Kosamba D/C 260 Nov-11

Sl. No.	Generating Plant /AssociatedTransmission Scheme	No. of Circuits	Total Length (CKm)	Target	
				Original	Revised
1	2	3	4	5	6

MADHYA PRADESH (MPPTCL) :

1	Astha-Shajapur	D/C	95	Mar-12
2	Gwalior(PGCIL)-Gwalior II	D/C	30	Mar-12

MAHARASHTRA (MSETCL) :

1	Koradi II-Ambazari	D/C	80	Mar-12
2	Koradi II-Buttibori	D/C	110	Mar-12
3	Koradi II-New Khapakheda	D/C	30	Mar-12
4	Chandrapur(MIDC)-Chandrapur II	D/C	40	Mar-12
5	Chandrapur(MIDC)-Chandrapur II at Todal	D/C	40	Mar-12
6	Chandrapur(MIDC)-Chandrapur II at Balkrasha	D/C	40	Mar-12
7	Bhusawal-II-Bhusawal(Khadka)	D/C	20	Mar-12
8	Bhusawal-II-Amalner	D/C	180	Mar-12
9	LILO of Girwali-Parbhani at Parli Extn	D/C	30	Mar-12
10	LILO of Girwali-Naded at Parli Extn	D/C	30	Mar-12
11	LILO of Parli-Beed at Parli Extn.	D/C	30	Mar-12
12	Paras-Balapur MIDC	D/C	12	Mar-12
13	LILO of Akola-Chikhali at Paras Extn.	D/C	30	Mar-12

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	LILO from Shapurnagar-Bollaram at Bachupalli	D/C	10	May-11
2	Narsasaraopeta-Parchur	D/C	110	Nov-11
3	LILO from Mamidipalli-Yeddumailaram at Fab city (Maheswaram)	D/C	7	May-11

EASTERN REGION (ER) :

JHARKHAND (JSEB) :

1	Sikaripara-Dumka	D/C	70	Jul-11
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WEST BENGAL (WBSETC) :

1	Katwa-Satgachia	D/C	90	Mar-12
2	Gokarna-Krishnanagar	D/C	98	Mar-12
3	Jagatballavpur-Foundry Park	D/C	60	Mar-12
4	LILO of Howrah-Domjur at Foundry Park	D/C	24	Mar-12
5	LILO of Jeerut-Kasba at New Town AA-IIA	D/C	8	Mar-12
6	LILO of Jeerut-Rishra at Jagatballavpur pspm(cea)	D/C	120	Mar-12

LIST OF SUB-STATIONS FOR 2011-12

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

765/400 kV Sub-stations

CENTRAL SECTOR

WESTERN REGION

1 Western Region System Strengthening Scheme X

a WR Pooling station near Sipat 765/400 2x1500 3000 Feb-12

2 Western Region System Strengthening Scheme XI

a WR Pooling station near Sipat 765/400 2x1500 3000 Feb-12
(3rd ICT)

STATE SECTOR

UTTAR PRADESH

1 Anpara 'C' 765/400 1000 1000 Dec-11

2 Anpara 'D' 765/400 1000 1000 Dec-11

3 Bara 765/400 3000 3000 Dec-11

4 Unnao 765/400 2x1000 2000 Apr-11

MAHARASHTRA

1 Koradi 765/400 7x500 3500 Mar-12

400/220 kV Substations

NORTHERN REGION

1 Northern Region System Strengthening Scheme XV

a Neemrana S/S 400/220 2x315 630 Nov-11

b Kotputli 400/220 2x315 630 Nov-11

c Bhiwadi Extn. 400/220 2x315 630 Nov-11

2 Northern Region System Strengthening Scheme XVIII

a Dehradun 400/220 2x315 630 Nov-11

b Bagpat GIS Extn. 400/220 2x315 630 Nov-11

3 Northern Region System Strengthening Scheme XIX

Bagpat GIS 400/220 2x500 Feb-12

4 Transmission System Associated with RAMPUR HEP

a Patiala Extn. 400/220 Nov-11

b Ludhiana Extn. 400/220 Nov-11

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity (MW/MVA)	Total Capacity (MVA/MW)	Target	
					Original	Revised
	c Kaithal Extn.	400/220			Nov-11	

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

5 Northern Region System Strengthening Scheme XIII

a Manesar GIS 400/220 2x500 1000 Nov-11

6 Transmission System Associated with KORBA III

a Raipur (Extn.) 400/220 Jun-11

SOUTHERN REGION

7 System Strengthening XI of SR

a Chulliar 400/220 2x315 630 Jul-11

400 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

RAJASTHAN (RVPN)

1 Ajmer 400/220 2x500 1000 Dec-11

UTTAR PRADESH (UPPCL) :

1 Karchhna 400/220 1x315 315 Mar-12

WESTERN REGION (WR) :

MAHARASHTRA

1 Koradi 400/220 2x500 1000 Mar-12

2 Chandrapur 400/220 2x500 1000 Mar-12

3 Bhusawal II 400/220 2x500 1000 Mar-12

MADHYA PRADESH

1 Astha 400/220 2x315 630 Mar-12

2 Julwania 400/220 2x315 630 Mar-12

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO)

1 Narasaraopeta 400/220 2x315 630 Jun-11

TAMIL NADU

1 MTPS Stage III 400/230 2x315 630 Mar-12

2 Tiruvalam 400/230 2x315 630 Mar-12

EASTERN REGION (ER) :

ORISSA

1 Bolangir 400/220 2x315 630 Mar-12

Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity (MW/MVA)	Total Capacity (MVA/MW)	Target	
					Original	Revised
2	Sudergarh	400/220	2x315	630	Mar-12	
3	Keonjhar	400/220	2x315	630	Mar-12	

220 kV STATE SECTOR (SS) :

NORTHERN REGION (NR) :

HIMACHAL PRADESH (HPSEB) :

1	Hatkoti	220/132	150	150	Mar-12	
2	Moginand	220/132	2x80	160	Mar-12	

WESTERN REGION (WR) :

CHHATTISGARH (CSEB) :

1	Chhuri	220/132	1x160	160	Apr-07	Dec-11
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MADHYA PRADESH (MPPTCL) :

1	Shajapur	220/132	160	160	Mar-12	
2	Gwalior	220/132	160	160	Mar-12	

MAHARASHTRA (MSEB) :

1	Balapur MIDC	220/33	2x25	50	Mar-12	
2	Balapur MIDC	220/33	2x100	200	Mar-12	

SOUTHERN REGION (SR) :

ANDHRA PRADESH (APTRANSCO) :

1	Bachupalli	220/132	2x100	200	May-11	
2	Parchur	220/132	2x100	200	Nov-11	
3	Fab City (Maheswaram)	220/132	2x100	200	Nov-11	

TAMILNADU (TNEB) :

1	K K Nagar	230/110	100	100	Mar-12	
2	Mannargudi	230/110	100	100	Mar-12	
3	Keelamangalam	230/110	100	100	Mar-12	

EASTERN REGION (ER) :

JHARKHAND (JSEB) :

1	Shikaripara	220/132	300	300	Jul-11	
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Sl. No.	Name of the Sub-Station	Voltage ratio (kV/kV)	Capacity (MW/MVA)	Total Capacity (MVA/MW)	Target	
					Original	Revised

ORISSA (OPTCL) :

1	Jharsuguda	220/132	2x100	200	Jun-11
2	Kuanrmunda	220/132	2x100	200	Jun-11
3	Kesinga	220/132	2x100	200	Jun-11

WEST BENGAL (WBSETC) :

1	Foundary Park	220/132	2x160	320	Mar-12
3	New Town AA-IIA	220/132	2x160	320	Mar-12