

**X PLAN TRANSMISSION WORKS PROGRAMME AT 132 kV & ABOVE AS WAS IDENTIFIED IN 2002  
CORRESPONDING TO GENERATION PLAN OF 41GW**

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
------------------	---------	-----------------------------------	--------------	------------

**A) CENTRAL SECTOR-Associated with Multi-Regional Generation Projects**

**INTER-REGIONAL**

<b>POWERGRID</b>		<b>ER-NR Connectivity for ATS of KAHALGAON EXTENSION PHASE-I (2x500MW)</b>		
	1	Biharshariff-Balia 400kV QUAD DC	400	240
	2	Patna-Balia 400kV QUAD DC	400	240
<b>POWERGRID</b>		<b>WR-NR Connectivity for ATS of KAHALGAON EXTENSION PHASE-I (2x500MW)</b>		
	1	Agra-Malanpur 765 kV SC to be operated at 400kV	765kV op at 400kV	110
<b>POWERGRID</b>		<b>ER-WR Connectivity for ATS of KAHALGAON EXTENSION PHASE-II (1x500MW)</b>		
	1	Ranchi-Sipat 400 KV DC (in case Sipat Switchyard and 765kV lines from Sipat to Seoni covered under Sipat-II transmission system are delayed, then, instead of Ranchi-Sipat, it would be Ranchi-Rourkela-Raipur 400kV DC with TCSC at Raipur)	400	420
<b>POWERGRID</b>		<b>ER-NR Connectivity of ATS for BARH STPS</b>		
	1	Barh-Balia 400 QUAD DC	400	220
<b>POWERGRID</b>		<b>NORTH KARAN PURA TRANSMISSION SYSTEM</b>		
		Transmission system yet to be identified.		

**NORTHERN REGION**

<b>POWERGRID</b>		<b>NR Portion for ATS of KAHALGAON EXTENSION PHASE-I (2x500MW)</b>		
	1	Ballia (PG) switching station	400	-
	2	Balia-Mau 400kV DC	400	50
		Balia-Lucknow (PG) 400 DC (to be designed for higher temperature of 95°C and fixed Series Compensation on both the circuits –quantum of compensation to be decided by further studies)	400	350
	3	Lucknow (PG)-Bareilly (PG) 400 DC (to be designed for higher temperature of 95°C)	400	250
	4			
<b>POWERGRID</b>		<b>NR Portion of ATS of MAITHON-RBC</b>		
	1	Balia-Unnao 765kV SC, at 400kV operation	765kV op at 400kV	360
	2	Unnao-Agra 765kV SC, at 400kV operation	765kV op at 400kV	270
	3	Meerut-Malerkotla 400 DC	400	270
	4	Agra-Meerut 765kV SC (operated at 400kV) or 400kV DC line	765kV op at 400kV	230
<b>POWERGRID</b>		<b>NR Portion of ATS for BARH STPS</b>		
	1	Balia-Bhiwadi HVDC bi-pole (the capacity of this HVDC line to be decided after further studies)	HVDC	1000

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
------------------	---------	-----------------------------------	--------------	------------

**WESTERN REGION**

**POWERGRID WR Portion of ATS for BARH STPS**

1	Seoni-Bina 765kV SC, at 400kV operation	765kV op at 400kV	330
---	---	-------------------	-----

**SOUTHERN REGION**

NIL

**EASTERN REGION**

**POWERGRID ER Portion for ATS of KAHALGAON EXTENSION PHASE-I (2x500MW)**

1	Kahalgaon-Patna 400kV QUAD DC	400	200
2	Patna (PG) 400/220kV Substation, 2x315MVA	400	2x315
3	Maithon (PG)-Ranchi 400 DC	400	200
4	Ranchi 400/220kV S/s of PG, 2x315MVA	400/220	2x315

**POWERGRID ER Portion of ATS of MAITHON-RBC**

1	Maithon RB TPS- Maithon (PG) 400 DC	400	40
2	Maithon RB TPS- Ranchi 400 DC	400	200

**POWERGRID ER Portion of ATS for BARH STPS**

1	LILO of Kahalgaon-Patna at Barh 2xDC	400	50
---	--------------------------------------	-----	----

**NORTH EASTERN REGION**

NIL

**B) CENTRAL SECTOR-Regional/ Inter-Regional System Associated with Regional Generation Projects and System Strengthening**

**INTER-REGIONAL**

**POWERGRID/ JV with Tata Power ER-NR Connectivity for Tala HEP**

1	Muzaffarpur-Gorakhpur D/C(quad)	400	207
2	Series comp. Of Muzaffarpur-Gorakhpur Line	400	40+15 %

**POWERGRID ER-SR Connectivity-Gazuwaka Second 500 MW HVDC scheme**

1	Gazuwaka HVDC B-T-B 2nd link(1x500 MW)	HVDC	500MW
2	Series Compensation on Jeypore-Gazuwaka 400kV D/C line	400	SC-50%

**POWERGRID ER-SR Connectivity for Talcher STPP Stage-II 4x500 MW**

1	Talcher - Kolar ± 500 kV 2000 MW HVDC Bipole	HVDC	1500
---	--	------	------

**POWERGRID ER-WR, Series Compensation on Raipur-Rourkela 400kV D/C line**

1	40% Fixed Series Compensation and 15% TCSC on Raipur-Rourkela 400kV D/C	400	
---	---	-----	--

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>NORTHERN REGION</b>				
<b>POWERGRID</b>		<b>Chamera II HEP (300 MW)- 2004-5</b>		
	1	LILO of Chamera I - Kishenpur at Chamera-II -D/C	400	35
<b>POWERGRID</b>		<b>Dulhasti HEP (3x130 MW) 2003-4</b>		
	1	Dulhasti-Kishenpur 2xS/C	400	61
	2	Kishenpur-Wagoora D/C	400	185
	3	Kishenpur S/S(aug.)	400/220	1260
<b>POWERGRID</b>		<b>Dhauliganga HEP (4x70 MW) 2004-5</b>		
	1	Dhauliganga - Bareilly(UPPCL) D/C (initially operated at 220 kV)	400	330
<b>POWERGRID</b>		<b>Sewa HEP(120 MW) 2006-7</b>		
	1	Sewa- Hira Nagar D /C	132	70
	2	Sewa- Khatua one ckt via Mahanpur D /C	132	70
<b>POWERGRID</b>		<b>Nathpha Jhakri HEP (6x250 MW) 2003-4</b>		
	1	N.Jhakri - Abdullahpur D/C	400	180
	2	Abdullahpur - Bawana D/C	400	167
	3	Bawana-Bhiwani D/C	400	98
	4	N.Jhakri - Nalagarh D/C	400	145
	5	Nalagarh - Hissar D/C	400	250
	6	Hissar - Jaipur S/C	400	277
	7	Hissar (PG)-Hissar(BBMB) D/C	220	10
	8	Hissar S/S	400/220	bay
	9	Abdullahpur S/S	400/220	630
	10	Bawana S/S (Aug.)	400/220	bay
	11	Nallagarh S/S	400/220	630
	12	Jalandhar-Dasuya D/C	220	50
	13	LILO of Chamera-Moga D/CatJalandhar	400	9
	14	Jalandhar S/s	400/220	630
<b>POWERGRID</b>		<b>Rihand STPS-II( 2x 500 MW)1st-3/06, 2nd-3/07</b>		
	1	Allahabad-Mainpuri-Ballabgarh-D/C	400	317
	2	Mainpuri S/S	400/220	315
	3	Rihand-Allahabad D/C	400	149
	4	Dadri-Panipat-2nd ckt.	400	111
	5	Patiala-Malerkotla S/C	400	64
	6	LILO 1 ckt. Nalagarh-Hissar at Kaithal-D/C	400	15
	7	LILO 1 ckt. Nalagarh-Hissar at Patiala-D/C	400	11
	8	Kaithal S/S	400/220	630
	9	Patiala S/S	400/220	630
	10	Mainpuri S/S(aug)	400/220	315
	11	Abdullapur S/S(aug)	400/220	315
<b>POWERGRID</b>		<b>Rampur HEP(500 MW)2005-6</b>		
	1	LILO of Nathpha Jhakri- Nalagarh D/C at Rampur	400	30
<b>POWERGRID</b>		<b>Tehri HEP St-I (4x250 MW)1st 3/03,2nd,3rd&amp;4th-3/04</b>		
	1	Tehri - Meerut 2 x S/C (initially operated at 400 kV)	800	181
	2	Meerut - Mandaula D/C	400	60
	3	Meerut - Muzaffarnagar S/C	400	37
	4	Meerut S/S	400/220	945
	5	Muzaffarnagar S/S	400/220	630
<b>POWERGRID</b>		<b>Dadri -II TPS (490 MW)</b>		
	1	Dadri-Malerkotla 2nd S/C ckt	400	300
<b>POWERGRID</b>		<b>Unchahar TPS-III (1 x 210 MW)</b>		
	1	Unchahar- Raibareli S/C	220	25
<b>POWERGRID</b>		<b>Koteshwar HEP (400 MW))</b>		
	1	Koteshwar - Tehri Pooling point D/C	400	40
<b>POWERGRID</b>		<b>Tehri HEP PSS (4x250 MW)1st &amp;2nd 3/06,3rd&amp; 4th-3/07</b>		
	1	Tehri - Tehri( Pooling point) 3rd ckt. (initially operated at 400 kV)	800	25
	2	Creation of Tehri Pooling Point sw. stn.		
	3	Charging of Tehri-Meerut 2xS/C at 765 kV	765	
	4	Tehri S/S	765/400	3x1000
	5	Meerut S/S	765/400	3x1000

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>POWERGRID/ JV with Tata Power</b>		<b>NR- Strengthening (For increased import due to Tala HEP)</b>		
	1	Gorakhpur-Lucknow(new) D/C	400	272
	2	Lucknow(New)- Unnao D/C	400	70
	3	Bareilly- Mandola D/C	400	235
	4	LILO of Dadri-Samaypur D/C line atMaharani Bagh-2xD/c	400	20
	5	Gorakhpur(new)-Gorakhpur(UP)interconnection-D/C	400	25
	6	Gorakhpur S/S (new)with 2x63 MVAR L/R	400/220	1x315
	7	New Lucknow S/S(new)	400/220	1x315
	8	Maharani Bagh S/S (new)*	400/220	630
	9	Bareilly S/S(new) with 2x50 MVAR L/R	400/220	315
<b>POWERGRID</b>		<b>NR- Supplementary Strengthening (increased import due to Tala HEP)</b>		
	1	Jullandhar-Amritsar S/C	400	65
	2	LILO of Bawana-Bhiwani S/Cat Bahadurgarh-D/C	400	9
	3	Amritsar S/S (new)	400/220	1x315
	4	Bahadurgarh S/S (new)	400/220	1x315
	5	Gorakhpur S/S (aug.)-2nd trf.	400/220	1x315
<b>POWERGRID</b>		<b>Strengthening of trans. works :-</b>		
	1	Allahabad S/S	400/220	2X315
	2	Kishanpur- Moga 2X S/C ( initially to be charged at 400 kV )	800	280
	3	Hamirpur - Jullandhar D/C	220	121
	4	FACT on Kanpur-Ballabgarh S/C	400	35%
	5	LILO of Bassi-Ballbgarh S/C at Bhiwadi-D/C	400	70
	6	Bhiwadi S/S	400/220	630
	7	Agra(PG)-Agra(UPPCL)-D/C	400	60
	8	LILO of Singrauli-Kanpur D/C at Allahabad-2xD/C	400	4
	9	40% series comp. On Panki-Muradnagar line at Muradnagar	400	40%
	10	Allahabad-Rewa Road D/C	220	6
	11	Allahabad-Phulpur S/C	220	37
	11	LILO of Modipuram-Simbholi S/C at Meerut(PG)-D/C	220	10
	12	LILO of Modipuram-Muzaffarnagar S/C at Meerut(PG)-D/C	220	5
	13	Meerut(PG)-Shatabdi Nagar-D/C	220	4.5
	14	Mau-Balia s/c	132	65
	15	Ballabgarh S/S (aug.)- 4 th trf.	400/220	315
<b>POWERGRID</b>		<b>Trans. worksTo be covered in future project)</b>		
	1	Roorkee S/S	400/220	1x315
	2	LILO of Rishikesh- MuzaffarpurS/c lineat Roorkee S/S	400	10
	3	Extn. Of Roorkee-Muzaffarpur line at Roorkee-Meerut line by opening at Muzaffarpur end	400	50
<b>POWERGRID</b>		<b>SYSTEM STRENGTHENING NR – I</b>		
	1	Kanpur-Auraiya DC	400	120
	2	LILO of Kanpur-Agra SC at Auraiya	400	30
	3	Bareilly Switching station of PG,	400	
	4	LILO of Lucknow-Moradabad SC at Bareilly (PG)	400	20
	5	LILO of Bareilly-Mandola DC at Bareilly (PG) 2xD/C	400	10
	6	Bareilly (PG)-Moradabad SC	400	80
	7	LILO of Sultanpur-Lucknow SC at Lucknow PG	400	30
<b>POWERGRID</b>		<b>SYSTEM STRENGTHENING NR-II, TARGET</b>		
	1	Fixed series compensation of 40% on Allahabad-Mainpuri 400kV DC line designed for 95°C		0.4
	2	Agra-Jaipur DC	400	225
	3	Wagoora , 3 <sup>rd</sup> transformer	400/220	1X315
<b>POWERGRID</b>		<b>SYSTEM STRENGTHENING NR-III, TARGET</b>		
	1	Malerkotla-Ludhiana-Jullundur S/C	400	150
	2	Ludhiana 400/220kV S/Stn of PG, 2x315MVA	400/220	2X315
	3	LILO of one circuit of Hissar-Moga DC line at Fatehabad	400	
	4	Fatehabad S/Stn of PG, 2x315MVA	400/220	2X315
<b>POWERGRID</b>		<b>SYSTEM STRENGTHENING NR-IV TARGET</b>		
	1	Provision of SVC support in NR system. (Total quantum of compensation, their size and location would be identified after further studies.)		
<b>POWERGRID</b>		<b>SYSTEM STRENGTHENING SCHEME NR-V, TARGET- MATCHING WITH BALIA-BHIWADI HVDC BI-POLE</b>		
	1	LILO of Hissar-Jaipur at Bhiwadi	400	25
	2	Bhiwadi-Agra DC	400	150
	3	Bhiwadi-Moga DC	400	320

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>WESTERN REGION</b>				
<b>POWERGRID</b>		<b>Tarapur Extn. Nuclear ( 2x500 MW )</b>		
	1	TAPP(Extn.)-Padghe D/C	400	108
	2	TAPP(Extn.)-Boisar D/C	400	12
	3	LILO Gandhar-Padghe S/C line at Vapi(PG)	400	5
	4	LILO Vapi(PG)-Padghe S/C line at Boisar	400	34
	5	TAPP(Extn.)-Boisar D/C(For start up power)	220	40
	6	Boisar 400/220 kV S/S	400/220	630
	7	Vapi(PG) 400/220 kV S/S	400/220	630
<b>POWERGRID</b>		<b>Sipat STPP-I ( 3x660 MW )</b>		
	1	Sipat-Seoni 2xS/C	765	2x336
	2	Seoni-Khandwa D/C (Quad AAAC)	400	373
	3	LILO of one ckt of Korba STPS-Raipur at Sipat D/C	400	19
	4	LILO of Bhilai-Satpura S/C line at Seoni D/C	400	7
	5	Nagda-Dehgam D/C	400	332
	6	LILO of both ckt of S.Sarovar-Nagda D/C at Rajgarh 2XD/C	400	2x11
	7	Seoni S/S	765/400	3000
	8	Seoni S/S	400/220	630
	9	Rajgarh S/S	400/220	630
<b>POWERGRID</b>		<b>Sipat STPP-II ( 2x500 MW )</b> (earlier 1x660MW)		
	1	Khandwa-Rajgarh D/C	400	213
	2	Bina-Malanpur S/C(initially operated at 400 kV)	765	245
	3	LILO at Bhatapara of Korba-Raipur line	400	15
	4	Malanpur S/S	400/220	630
	5	Bhatapara S/S	400/220	630
	6	Seoni S/S (Aug)	765/400	1500
<b>POWERGRID</b>		<b>Sipat STPP-II Supplimentary</b>		
	1	Seoni-Wardha, S/C (initially op. at 400kV)	765	260
	2	Wardha-Akola, D/C	400	160
	3	Akola-Aurangabad, D/CLILO at Bhatapara of Korba-Raipur line	400	200
	4	Wardha S/S	400/220	630
<b>POWERGRID</b>		<b>Vindhyachal-III 2x500 MW</b>		
	1	Vindhyachal - Satna, D/C	400	270
	2	Satna- Bina, D/C	400	277
	3	LILO of Satna-Bina(MP) at Bina(PG), D/C	400	5
	4	LILO of both ckt of Raipur-Rourkela at Raigarh 2xD/C	400	30
	5	Satna	400/220	315
	6	Bina	400/220	315
	7	Raigarh	400/220	630
<b>POWERGRID</b>		<b>Bav-II 37 MW</b>		
		Evacuation at low voltage		
<b>POWERGRID</b>		<b>System Strengthening Schemes</b>		
		<b>Establishment of Khandwa Sub-Station</b>		
	1	LILO of both ckt of Itarsi-Dhule D/C line at Khandwa 2xD/C	400	2x29
	2	Khandwa S/S	400/220	630
<b>POWERGRID</b>		<b>Establishment of Korba-Vindhyachal 2nd ckt</b>		
	1	Korba-Vindhyachal 2nd ckt	400	215
<b>POWERGRID (IPTC Route)</b>		<b>Construction of Bina-Nagda line</b>		
	1	Bina-Nagda D/C line	400	360
<b>POWERGRID</b>		<b>Transfer of Surplus power from ER to WR &amp; SR</b>		
	1	Raipur-Chandrapur D/C line (3rd & 4th ckt)	400	334
<b>POWERGRID</b>		<b>Series Compensation on Seoni-Khandwa 400kV D/C line</b>		
	1	40% Fixed Series Compensation on Seoni-Khandwa 400kV D/C	400	
<b>POWERGRID</b>		<b>System Strengthening Scheme of WR-II</b>		
	1	Sipat-Raipur D/C line	400	140
	2	Wardha-Bhadrawati D/C line	400	250
<b>POWERGRID</b>		<b>System Strengthening Scheme of WR-II</b>		
	3	Chandrapur-Bhadrawati 2nd D/C line	400	10

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>SOUTHERN REGION</b>				
<b>POWERGRID</b>		<b>Talcher STPP Stage-II 4x500 MW</b>		
	1	Kolar - Hoody , D/C	400	25
	2	Kolar - Madras , S/C	400	230
	3	Kolar - Hosur - Salem , S/C	400	200
	4	Salem - Udumalpet , S/C	400	167
	5	LILO of Cuddapah - Somanhalli at Kolar	400	10
	6	Hosur S/s	400/220	630
	7	Salem,Hoody,Udumalpet and Madras S/S Extn	400/220	
<b>POWERGRID</b>		<b>Additional scheme for SR for Talcher St.-II</b>		
	1	Kolar-Hosur Section to be made as D/C	400	50
<b>POWERGRID</b>		<b>System Strengthening sch for SR</b>		
	1	Vijayawada - Nellore 400 kV D/C line	400	340
	2	Nellore - SB Budur 400 kV D/C line	400	189
<b>POWERGRID</b>		<b>Series Compensation(FSC)</b>		
	1	40% Sr. comp at Cuddapah end on both ckts. Of Nagarjunasagar - Cuddapah D/C line	400	
	2	40% Sr. comp at Gooty end on 2XS/C Gooty-Neelamangala line	400	
<b>POWERGRID</b>		<b>Ramagundam STPS Stage-III 500 MW</b>		
	1	Ramagundam- Hyderabad 400kV D/C line	400	200
	2	Hyderabad-Kurnool-Gooty 400kV S/C line	400	300
	3	Gooty-Neelamangla 400kV S/C line	400	250
	4	Khammam - Nagarjunsagar 400kV S/C line	400	150
	5	400kV bay extns. at Hyderabad,Gooty,	400	
	6	Khammam,Nagarjunsagar,Kurnool and Neelamangla		
<b>POWERGRID</b>		<b>Tr. Sys. for Second feed to Kerala</b>		
	1	Madurai-Thiruvananthapuram 400kV D/C line	400	260
<b>POWERGRID</b>		<b>Gazuwaka Second 500 MW HVDC scheme</b>		
	1	Gazuwaka HVDC B-T-B 2nd link(1x500 MW)	HVDC	
	2	Gazuwaka -Vijayawada,D/C (2&3 ckt)	400	380
<b>POWERGRID</b>		<b>Kaiga Transmission System</b>		
	1	Kaiga-Sirsi-Devangiri, D/C (upgradaton to 400 kV operation)	400	240
	2	Kaiga-Narendra 400 KV, D/C	400	106
	3	Narendra S/S	400/220	630
<b>POWERGRID</b>		<b>Kaiga Phase-II (unit# 3 &amp; 4) Transmission System</b>		
	1	Narendra-Davanagere D/C	400	150
	2	Neelamangla-Mysore D/C	400	155
	3	Mysore-Kozhikode D/C	400	215
	4	LILO of Kolar-S P Budur S/C at Melakottaiyur	400	40
	5	Mysore,Kozhikode and Melakottaiyur S/Ss	400/220	630
	6	2nd Transformer at Vijayawada and Hiriyur S/Ss	400/220	315
	7	Switchable line reactor of 1x50MVAR at Melakottaiyur end of Kolar-S P Budur S/C line to be liloed at Melakottaiyur	400	50MVAR
	8	Switchable line reactors of 2x50MVAR at Kozhikode end of Mysore-Kozhikode D/C line	400	100MVAR
	9	Bus reactor of 1x50MVAR each at Mysore and Narendra S/Ss	400	100MVAR
<b>POWERGRID</b>		<b>Neyveli Ext (420MW)</b>		
	1	LILO of one ckt of NLC-Trichy D/C line at PS	400	20
<b>POWERGRID</b>		<b>Neyveli TPS-II Ext (New) (500 MW)</b>		
	1	Neyveli TS-II Exp-Neyveli TS-II 2xS/C	400	8
	2	Neyveli TS-II Exp-Pugalur D/C	400	225
	3	Pugalur-Madurai D/C	400	140
	4	Udumalpet-Arasur D/C	400	78
	5	LILO(1xD/C) of Neyveli-S p Budur S/C at Pondicherry	400	30
	6	LILO(1xD/C) of Ramagundam-Khammam S/C at Warrangal	400	18
	7	Pugalur,Arasur,Pondicherry and Warrangal S/Ss	400/220	630
	8	2x50 MVAR Line Reactor(Switchable) at Pugalur end of Neyveli-Pugalur D/C	400	100MVAR
<b>POWERGRID</b>		<b>System Strengthening-III in SR</b>		
	1	Gooty-Raichur D/C (Quad)	400	160
	2	Neelamangala - Somanhally D/C	400	50

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>EASTERN REGION</b>				
<b>POWERGRID/ JV with Tata Power</b>		<b>Trans. System associated with Tala HEP(6x170 MW)</b>		
	1	Tala (from Indian Border)-Siliguri 2X D/C	400	210
	2	Siliguri-Purnea D/C (quad)	400	160
	3	Purnea-Muzzaffarpur D/C (quad)	400	255
	4	LILOs at Siliguri & Purnea	400	68
	5	Muzfprur PG-BSEB 220 kV D/C line	220	20
	6	Mzfp (2x315), Lko (1x315) & Gkh (1x315) S/ss	400/220	4x315
	7	Augmentation of Purnea by 315 MVA transf.	400/220	1x315
	8	Muzaffarpur S/S with line reactor2x63 MVAR	400	126MVAR
<b>POWERGRID</b>		<b>ER- Supplimentary Strengthening for Tala HEP</b>		
	1	Biharsariff-Muzaffarpur D/C	400	140
	2	LILO of Farraka - Jeerat 400 kv S/C at Subhasgram	400	70
	3	Subhasgram S/S	400/220	2x315
	4	Augmentation of Siliguri S/S by 315 MVA transf.	400/220	1x315
<b>POWERGRID</b>		<b>Eastern Region Strengtheing-Gazuwaka Second 500 MW HVDC scheme</b>		
	1	Series Compensation on Rengali-Indrawati 400kV S/C line	400	SC-40%
	2	Series Compensation on Meramundali-Jeypore- 400kV S/C line	400	SC-40%
<b>POWERGRID</b>		<b>ER Portion of Talcher STPP Stage-II ATS</b>		
	1	Talcher 400/220kv station with Converter Station	400/220	500
<b>POWERGRID</b>		<b>Mezia Unit 4 (210)</b>		
	1	Mejia-Gola D/C	220	150
	2	Gola S/S	220/33	200
<b>POWERGRID</b>		<b>Mezia Unit 5 (250)</b>		
	1	Mejia-Durgapur(DVC), D/C	220	60
<b>POWERGRID</b>		<b>Chandrapura U7-8 (2x250)</b>		
	1	LILO of Chandrapur-Kalyaneswari S/C at Amjore	220	15
	2	Amjore-Gridih D/C	220	60
	3	Giridih-Kodama D/C	220	100
	4	Anjore S/S, Giridih S/S, Kodema S/S	220/33	3x200
<b>POWERGRID</b>		<b>TeestaStg.-III HEP (132)</b>		
	1	TeestaStg.-III HEP-New Jalpaiguri S/C (twin Moose)	220	50
<b>POWERGRID</b>		<b>Teesta St. IV HEP (168)</b>		
	1	Teesta LD IV - New Jalpaiguri D/C	220	35
	2	Teesta LD IV - Teesta Stg.III, S/C (single Moose)	220	15
<b>POWERGRID</b>		<b>Teesta St. V HEP (3x170)</b>		
	1	Teesta St.V HEP-Siliguri D/C	400	120
<b>NORTH EASTERN REGION</b>				
<b>POWERGRID</b>		<b>Kopili II ( 1x25 MW)</b>		
	1	Existing system adequate	-	-
<b>POWERGRID</b>		<b>Tripura GBPS (280 MW)</b>		
	1	Tripura GBPS - Badarpur/Silchar D/C ( Twin moose conductor)	220	250
	2	Badarpu/Sichar - Kopili (new) - D/C ( Twin moose conductor)	220	150
	3	LILO of two ckt. of Kopili - Misa at Kopili (new)S/S -2x D/C	220	20
	4	Tripura GBPS - Agartala - D/C	132	70
	5	Kopili (new) Sw/Stn.	220/132	-
	6	Badarpur S/S	220/133	200
<b>POWERGRID</b>		<b>Tuirial HEP (2x30 MW)</b>		
	1	Tuirial - Aizawl S/C	132	50
	2	Lilo of Jiribam - Aizawl at Tuirial HEP	132	15
<b>POWERGRID</b>		<b>System Srengthening schemes</b>		
	1	Ranganadi - Zero S/C	132	25
		Zero S/s	132/33	x5(1-phase)
	2	Reconductoring of Kopili - Khandong 132 kv S/c with AAAC conductor	132	15
	3	Augmentation of 220/132 kv ICT at Kopili HEP	220/132	100
	4	Provision of Reactor at Kathalguri GBPS	-	-
	5	Aizawl (PG) - Aizawl ( Mizoram) S/C stringing 2nd Ckt.	132	8.5
	6	Aug of Salakati S/S	220/132	50

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>C) STATE SECTOR</b>				
<b><u>NORTHERN REGION</u></b>				
<b><u>RRVNL</u></b>	<b>N.L.C.</b>	<b>Barsingsar LigniteTPS (2x125 MW)</b>		
	1	Barsingsar-Nagaur2xS/C	220	100
	2	Barsingsar-Phalodi S/C	220	100
	3	Barsingsar-Bikaner S/C	220	30
<b><u>DELHI</u></b>		<b>Pragati CCGT(330 MW)</b>		
	1	Reconductoring of IP-Patparganj D/C by AAAC	220	
<b><u>HARYANA</u></b>		<b>Tau Devi Lal TPS-IV(2x250)</b>		
	1	Panipat-Jind D/C	220	50
	2	Panipat-Saffidon D/C	220	30
	3	Saffidon-Jind D/C	220	30
<b><u>H.P.</u></b>		<b>Larji HEP (126 MW)</b>		
	1	Larji - Kangoo D/C	132	63
	2	LILO of one ckt. of Gagal- Sarabhai D/C line at Largi - D/C	132	1
	3	Gagal-Larji section of Gagal - Sarabhai D/C	132	63
		<b>Kashang-I HEP (66 MW)</b>		
	1	LILO of 220 KV Bhabha-KuniharS/C at Kashang	220	25
<b><u>J.K.</u></b>		<b>Bagliar HEP (450 MW)</b>		
	1	Kishenpur-Bagliar D/C	400	70
	2	LILO of one ckt. Of Wagoora-Kishenpura D/C at Bagliar	400	3
<b><u>PUNJAB</u></b>		<b>GHTP-II (2x250)</b>		
	1	Reconductoring of GHTP-Kotkapura D/C with AAAC	220	25
		<b>Shahpur Kandi HEP (168 MW)</b>		
	1	RSD-shahpurkandi ph-1 D/C	220	17
	2	Shahpurkandi ph I -Sarna D/C	220	17
<b><u>RAJASTHAN</u></b>		<b>Ramgarh CCGT-II (70 MW)</b>		
	1	Ramgarh-Jaiselmer S/C	220	70
	2	Jaiselmer-Tinwari S/C	220	230
	3	Ramgarh S/S	220/132	100
	4	Jaiselmer S/S	220/132	100
		<b>Mathania CCPP(140 MW)(2004-5)</b>		
	1	LILO of Jodhpur-Tinwari at Mathania-D/C	132	5
	2	Mathania-Jodhpur S/C	132	70
		<b>Kota TPS-VI (195 MW)</b>		
	1	KTPS-Kankroli D/C(initially charged at 220 kV)	400	105
	2	LILO Chitor-Debari at Kankroli(400)-D/C	220	35
	3	LILO Bhilwara-Kankroli at Kankroli(400)-D/C	220	1
	4	Kankroli(400)-Kankroli(220)-S/C	220	11
	5	Kankroli S/S	400/220	630
		<b>Suratgarh TPS -III (1x250)</b>		
	1	Suratgarh-Bikaner S/C on D/c	220	150
	2	Ratangarh-Khetri D/C via Jhunjhnu	220	125
<b><u>U.P.</u></b>		<b>Parichha Extn.(1x210 MW)</b>		
		Parichha- Mainpuri D/C	220	90
		<b>Anpara 'C' (1x500 MW)</b>		
	1	Charging of Anpara- Unnao S/C line at 765 kV	800	
	2	Anpara S/S	765/400	2x630
	3	Unnao S/S	765/400	3x630
<b><u>UTARANCHAL</u></b>		<b>Maneri Bhali HEP-II (304MW)</b>		
	1	Maneri II-Rishikesh S/C	220	70
	2	LILO of Maneri I-Rishikesh at Maneri II D/C	220	5
	3	LILO of Maneri I - Chamba line at Maneri-II, D/C	220	15

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>Private Sector</b>				
<b><u>PUNJAB</u></b>				
		<b>Goindwal Sahib(2x250MW)</b>		
	1	Goindwal-Tathasahib D/C	220	60
		Goindwal-Tarntaran D/C	220	25
		LILO Jamsheer-Verpal D/C at Goindwalsahib-2xD/C	220	10
		Goindwal S/S	220/132	100
<b><u>H.P.</u></b>				
		<b>BASPA HEP (3x100 MW)</b>		
	1	Baspa II - Nathpa Jakhri (2xS/C)	400	55
	2	Terminal equipment for 400 kv bays (2 no)	400	0
		<b>DHAMWARI SUNDA HEP (70 MW)</b>		
	1	Dhamwari Sunda - Maliana 2xS/C+D/C	132	180
<b><u>UTTARANCHAL</u></b>				
		<b>Vishnu Prayag (400 MW) HEP</b>		
	1	Vishnu Prayag-Muzaffarnagar D/C	400	225
	2	LILO of Rishikesh-Moradabad S/C at Kashipur-D/C	400	20
	3	Kashipur S/S	400/220	315
<b><u>UTRANCHAL</u></b>				
		<b><u>TENTH PLAN TRANSMISSION PROPOSALS of UTRANCHAL</u></b>		
		<b>400 kV line</b>		
	1	LILO Rishikesh - Moradabad S/C at Kashipur-2xs/c	400	2x30
	2	LILO Dhauliganga - Bareilly(initially at 220 kV) at Pithoragarh, D/C	400	20
		<b>220 kV line</b>		
	1	LILO of Khodri-Rishikesh at Dehradun2xS/C	220	2x0.5
	2	LILO of Rishikesh-Muzaffarnagar at Roorkee 2xS/C	220	2x0.5
	3	Roorkee -Roorkee(Railway S/S) S/Con D/C tower	220	3.1
	4	Almora-Kashipur S/C on D/C	220	40
	5	Haldwani-Kashipur S/C on D/C	220	35
	6	LILO of Tanakpur-Bareilly at Sitarganj-D/C	220	2x15
	7	LILO of Khodri-Saharanpur D/C at Harbertpur- 2xD/C	220	4x5
	8	LILO of Haldwani-C.B.Ganj at Sitarganj-D/C	220	2x25
	9	Rishikesh-Maneri Stage-II-S/C	220	75
	10	Haldwani-Almora S/C line	220	70
		<b>132 kV line</b>		
	1	Almora-Pithoragarh S/C	132	80
	2	Kalagarh-Kotdwar S/C	132	80
	3	Khodri-Kulhal S/C	132	20
	4	Khatima-Sitarganj-Kichha S/C	132	60
	5	Almora-Ranikhet S/C	132	35
	6	LILO of Roorkee-Saharanpur at Jhabrera-D/C	132	2x4
	7	LILO of Majra-Kulhal Ist ckt. At Harbertpur-D/C	132	2x5
	8	LILO of Dhalipur-Purkal at Harbertpur-D/C	132	2x8
	9	LILO of Majra-Kulhal-II at Harbertpur-D/C	132	2x15
	10	LILO of Majra-Rishikesh at Jollygrant-D/C	132	2x3
	11	LILO of Jwalapur-Rishikesh at Bhupatwala-D/C	132	2x3
	12	Srinagar-Satpuli-Kotdwar S/C on D/C	132	55
		<b><u>220 kV &amp; 132 kV Power evacuating lines</u></b>		
	1	Ghansali-Augustmuni S/C on D/C	220	65
	2	Ghansali-chamba S/C on D/C	220	60
	3	Bhatwari-Uttarkashi S/C	220	15
	4	Madkot-Pithoragarh S/C	132	100
	5	Sankari-Naungaon S/C	132	40
	6	Naungaon-Khodri(220 kV ) S/C	132	110
	7	Melkhet-Simli S/C	132	50
	8	Simli-Joshimath S/c	132	50
	9	Simli-Srinagar D/C	132	90
		<b>400 kV S/Stns.</b>		
	1	Rishikesh Switchyard	400	
	2	Kashipur S/S	400/220	315
			220/132	3x100
		<b>220 kV S/Stns.</b>		
	1	Dehradun S/S	220/132	2x100
	2	Roorkee S/S	220/132	2x100
	3	Almora S/S	220/132	4x33.3
	4	Sitarganj S/S	220/132	100
			132/33	40
	5	Harbertpur S/S	220/132	2x100
			132/33	2x140
		<b>132 kV S/Stns</b>		
	1	Pithoragarh S/S	132/33	20
	2	Ranikhet S/S	132/33	20
	3	Jhabrera S/S	132/33	2x20
	4	Jollygrant S/S	132/33	20
	5	Bhupatwala(Hardwar)	132/33	2x20
	6	Satpuli(Pauri) S/S	132/33	20

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
		<b>220 kV S/S(Aug.)</b>		
	1	Rishikesh S/s	220/132	2x160 in place of 100
			132/33	40 in place of 20
	2	Chamba S/S	220/33	40
	3	Haldwani S/S	220/132	2nd 100
			132/33	2 nd 20
		<b>132 kV S/S (Aug)</b>		
	1	Majra(Dehradun) S/S	132/33	3 rd 40
	2	Bindal(Dehradun) S/S	132/33	2nd 40
	3	Srinagar S/S	132/33	2x40 in place of 2x15
	4	Jwalapur S/S	132/33	2nd 40 in place of 20
	5	Roorkee S/S	132/33	3 rd 40
	6	Kichha S/S	132/33	2nd 40 in place of 20
	7	Bajpur S/S	132/33	2nd 40 in place of 20
	8	Bhowali S/S	132/33	2nd 15
<b>HPSEB</b>		<b><u>TENTH PLAN TRANSMISSION PROPOSALS of HIMACHAL</u></b>		
		<b>400 KV Line</b>		
	1	Nalagarh-Kunihar S/C	400	33
		<b>400 KV S/S</b>		
	2	Kunihar S/S	400/220	630
		<b>220 kV S/S</b>		
	3	Baddi S/S	220/66	200
<b>UTTAR PRADESH</b>		<b><u>TENTH PLAN TRANSMISSION PROPOSALS of UTTAR PRADESH</u></b>		
		<b>400 kV line</b>		
	1	LILO 1 ckt. Of Dadri-Samaypur at G.Noida-D/C	400	3
	2	LILO 1 ckt. Of Rishikesh-Muradnagar at Muzaffarpur-D/C	400	19
		<b>400 kV Substations</b>		
	1	G. Noida S/S	400/220	630
		<b>220 kV line</b>		
	1	G.Noida-Noida D/C	220	12
	2	Tanda-Sohawal S/C	220	100
	3	Basti-Gonda S/C	220	60
	4	LILO Unchahar-Sarojinaga atRaibareily-D/C	220	10
	5	Hardoi-Chhibramau S/C	220	60
	6	LILO at Agra cantt-D/C	220	12
	7	Agra(400)-Agra(G.Road) D/C	220	55
	8	Meerut-Loni D/C	220	55
		<b>220 kV Substations</b>		
	1	GhazipurS/S(aug)	220/132	2nd 100
	2	SohawalS/S	220/132	100
	3	Raebareilly S/S	220/132	2x100
	4	Chhibramau S/S	220/132	100
	5	Agra fortS/S	220/33	3x100
	6	Agra(G.Road) S/S	220/33	3x100
	7	Agra(400)S/S (aug)	220/132	2x60
	8	Loni S/S	220/132	100
	9	Sahibabad S/S (aug)	220/132	60
	10	Muradnagar S/S(aug)	220/132	60
<b>PUNJAB</b>		<b><u>TENTH PLAN TRANSMISSION PROPOSALS of PUNJAB</u></b>		
		<b>220 kV LINES</b>		
	1	Jamsher-Nakodar 2nd ckt strg	220	15
	2	LILO of Rajpura-Ablowal 2nd ckt at Bahadurgarh-D/C	220	2
	3	Humbran-Ladhuwal S/C on D/C	220	5
	4	LILO of Goindwal(GVK)-TarntaranS/C at Goindwal(PSEB)-D/c	220	2
	5	Dasuya-Hoshiyarpur S/C on D/C	220	40
	6	LILO GGSSTP-Jamsher S/C at Phagwara-D/C	220	14
	7	Patiala(400)-Nabha S/C on D/C	220	26
	8	LILO GGSSTP-Laltonkalan 2nd ckt at Kohara-D/C	220	10
	9	Gaunsgarh-Ludhiana(400) S/C on D/c	220	18
	10	Humbran-ladowal-Gaunsgarh-Ludhiana(400)2nd ckt strg	220	43
	11	LILO Rajpura-Dserabassi S/c at Larlu-D/C	220	7
	12	Kohara-Ludhiana(400) D/C	220	10
	13	LILO Patiala-Patran D/C at Patiala(400)-2xD/C	220	10
	14	Patran-Sunam 2nd ckt strg	220	30

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
		<b>220 kV Substations</b>		
		Landran S/S		
	1	Nakodar S/S (aug)	220/66	100
	2	Ladhuwal S/S	220/66	100
	3	BahadurgarhS/S(aug)	220/66	100
	4	Goraya S/S (aug)	220/66	100
	5	Gaunsgarh S/S	220/66	100
	6	Hoshiarpur S/S	220/66	100
	7	Phagwara S/S	220/66	100
	8	Nabha S/S	220/66	100
	9	Kotlisuratmali S/S(aug)	220/66	100
	10	Larlu S/S	220/66	100
	11	Ladhowal S/S(aug)	220/66	100
	12	Gaunsgarh S/S (aug)	220/66	100

**RAJASTHAN**

**TENTH PLAN TRANSMISSION PROPOSALS of RAJASTHAN**

		<b>400 kV LINES</b>		
	1	Jaipur-Merta-Jodhpur S/C	400	300
	2	Jaipur-Bhinmal via Merta S/C	400	460
		<b>400 kV Substations</b>		
	1	Jodhpur S/S	400/220	630
	2	Merta S/S	400/220	315
		<b>220 kV LINES</b>		
	1	LILO of Jodhpur-Bilara at 400 kV JodhpurS/S	220	20
	2	LILO of Jodhpur-Bhilwara at 400 kV JodhpurS/S	220	20
	3	LILO of Jodhpur-Balotra at 400 kV JodhpurS/S	220	20
	4	Jodhpur (400)-Tinwari S/C	220	60
	5	Merta-Bhopoalgarh S/C	220	60
	6	Bassi-Kukas D/C	220	30
	7	Bassi-Phulera S/C	220	65
	8	Jaipur-Sanganer S/C	220	5
	9	LILO 1 ckt.Alwar-Bhiwadi(at Bhiwadi(400)-D/C	220	9
	10	Bhiwadi(400)-Kotputli S/C	220	100
	11	Ratangarh-Sujangarh S/C	220	50
	12	LILO 1 ckt of Sirohi-Balotra at Jalore-D/C	220	10
	13	Bali-Jalore S/C	220	75
	14	Khetri-Neem Ka Thana S/C	220	60
	15	Kotputli-Neem ka thana S/C	220	40
	16	Bharatpur-Dholput S/c on D/C	220	144
		<b>220 kV Substations</b>		
	1	Bhopalgarh S/S	220/132	100
	2	Sujangarh S/S	220/132	100
	3	Jalore S/S	220/132	100
	4	Neem ka thana S/S	220/132	100
	5	Dholpur S/S	220/132	100

**HARYANA**

**TENTH PLAN TRANSMISSION PROPOSALS of HARYANA ON GOING SCHEMES( LINES)**

	1	Palli-Badshahpur D/C	220	23
	2	Hissar(400)-Fatehabad D/C	220	63
	3	LILO Narwana - Sirda S/C at Fatehabad-D/C	220	10
	4	Dadri-Mohindergarh S/C	220	41
	5	LILO Dadri - Narnaul S/C at Mohindergarh-D/C	220	4
	6	LILO Panchkula - ShahbadD/C at Tepla-2xD/C	220	13
	7	Abdullapur-Tepla D/C	220	30
	8	Fatehabad-Rania S/C on D/C	220	66
	9	Kaithal-Cheeka S/C on D/C	220	40
	10	PTPP-Rohtak 2nd ckt. Strg.	220	63
	11	PTPP-Sonepat 2nd ckt. Strg.	220	50
	12	Badshahpur-Maneshar S/C on D/C	220	12
		<b>NEW SCHEMES(LINES)</b>		
	1	LILO PTPP- Narwanal D/C at Saffidon-2xD/C	220	8
	2	Bhiwadi-Rewari D/C	220	25
	4	Narnaul-Rewari S/C	220	45
	3	Palli-Chakrapur D/C	220	21
	4	LILO of Kaithal-Cheeka at Kaithal(400)-2xD/C	220	40
	5	Kaithal-Kaul S/C on D/C	220	70
	7	IOC-Gharonda S/C on D/C	220	25
	8	LILO PTPP-Nissing D/C at IOC 2xD/C	220	12
	9	IOC-Nissing S/C	220	6
	10	IOC-Saffidon D/C	220	30
	11	Saffidon-Jind D/C	220	54
		<b>SUBSTATIONS(NEW)</b>		
	1	Palli switching stn.	220	
	2	SaffidonS/S	220/132	200
	3	Palli S/S	220/66	200
	4	Chakkarpur S/S	220/66	200
	5	Kaul S/S	220/132	200
	6	Gharonda S/S	220/132	
	7	IOC switching stn.	220	
	9	Ratia S/S	220/132	100

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
		<b>AUGMENTATIONS</b>		
	1	Rohtak 2nd trf.	220/132	100
	2	Sonepat 3rd trf.	220/132	100
	3	Bhiwani 3rd trf.	220/132	100
	4	Panchkula 2nd trf.	220/66	100
	5	Rewari 3rd trf.	220/132	100
	6	Shahbad 3rd trf.	220/132	100
	7	Nissing 3rd trf.	220/132	100
<b>DTL</b>		<b>TENTH PLAN TRANSMISSION PROPOSALS of DELHI</b>		
		<b>400 KV Line</b>		
	1	Bamnauli - Balabhgarh D/C	400	104
		<b>NEW</b>		
	1	LILO Dadri - Ballabgarh at Maha Rani Bagh	400	100
	2	LILO Dadri - Bawana-Bamnauli at Mundka	400	2
		<b>400 KV S/S</b>		
	1	Bamnauli (Aug)	400/220	315
	2	Mundka	400/220	630
	3	Maha Rani Bagh	400/220	630
		Bawana(Aug)	400/220	315
		Bamnauli(Aug)	400/220	630
		<b>220 kV line( on going)</b>		
	1	Bawana - Rohini D/C	220	10
	2	LILO N/Garh - Narela at Bawana 2xD/C	220	3.6
	3	Mehrauli - Vasant Kunj D/C	220	6.6
	4	Bamnauli - Naraina D/C	220	17
	5	Bamnauli -R. Valley D/C	220	18
	6	Park Street - Naraina D/C	220	16.4
	7	3rd ckt Murad Nagar- Patparganj	220	30
	8	Samaypur - Mehrauli D/C	220	25
	9	Bamnauli - Papankala-I 2 nd ckt.	220	8.4
	10	LILO Mandaula - PPG at SOW D/C	220	2.8
	11	LILO Bawana - N.Garh at Khanjwala D/C	220	9
	12	S.O.W - Kashmere Gate D/C	220	4
	13	Gazipur - Noida D/C	220	8
	14	Papankalan-I - Papankalan-II D/C	220	8.2
	15	LILO IP Badarpur at Sarita Vihar 2xD/C	220	4
		<b>220 kV line( New)</b>		
	1	LILO N.Garh - Bawana at DSIDC D/C	220	1
	2	Bamnauli - P.Kalan II D/C	220	9
	3	LILO IP-Badarpur at M.Bag 2xD/C	220	2
	4	Okhla - Sirifort D/C	220	6
	5	Naraina - R.Vally D/C	220	3
	6	Pitampura III - Sultanpuri D/C	220	8
	7	Bamnauli -Jhatikara Mod D/C	220	6
	8	Mundka - Sultanpuri D/C	220	5
	9	LILO Bamnauli -P.Kalan at P.Kalan III D/C	220	1
	10	LILO Mehrauli - Badarpur at Maidan Garhi D/C	220	2
	11	LILO SOW - PPG at Geeta Colony 2xD/C	220	2
	12	LILO Bawana - Narela at Bawana DSIDC I D/C	220	7
	13	Bawana - DSIDC- I D/C	220	5
	14	NDSE II- Bawana D/C	220	5
	15	NDSE III- Bawana D/C	220	5
	16	NDSE III - Bawana - DSIDC II	220	20
	17	Shalimar Bagh - Pitampura III	220	6
		<b>220 kV Substation ( on going)</b>		
	1	Kashmiri Gate	220/66	100
	2	S.O.Wazirabad(aug.)	220/66	100 3rd
	3	Naraina	220/66	100
	4	Gazipur	220/66	100
	5	Papankalan-I	220/66	100
	6	Khanjhawalan	220/66	100
	7	Siri Fort	220/66	200
	8	Dhaura Kuan / Ridge vally	220/66	400
	9	IP Station( aug)-3rd trf.	220/66	100
	10	Geeta Colony	220/66	200
		<b>220 kV Substation ( New)</b>		
	1	Subzi Mandi	220/66	100
	2	Papankalan - II	220/66	200
	3	Sultanpuri (Jalebi Chowk)	220/66	200
	4	Pitampura -III	220/66	200
	5	Jhatikra Mod	220/66	200
	6	Shalimar Bagh(aug) 3rd trf.	220/66	100
	7	Papankalan - III	220/66	200
	8	Maidan Ghari	220/66	200
	9	Bawana DSIDC I	220/66	400
	10	Bawana DSIDC II	220/66	400
	11	Narela Dev Scheme I	220/66	200
	12	Narela Dev Scheme II	220/66	200
	13	Narela Dev Scheme III	220/66	200
	14	P.P Ganj	220/66	200
	15	Mehrauli	220/66	200

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>WESTERN REGION</b>				
<b>Joint venture</b>	<b>Narmada Sagar HEP 8x125 MW</b>			
	1	Narmada Sagar- Indore D/C	400	80
	2	LILO of Satpura - Indore S/C at N. Sagar D/C	400	15
<b>Gujarat</b>	<b>Omkareshwer HEP (8x65 MW)</b>			
	<b>KLTPS (Panan) Extn. 3x75 MW</b>		220	
	1	KLTPS-Panandro D/C		
	<b>Akrimota TPS ( 2x125 MW )</b>			
	1	Akrimota-Nakhatrana 2xS/C	220	95
	2	Akrimota-Panandro S/C	220	30
	3	Nakhatrana-Nanikhakar 2xS/C	220	
	4	Nanikhakar-Morbi D/C	220	200
	<b>Dhuvaran CAPP ( 1X70+1x40 MW )</b>			
	1	LILO of Dhuvaran-Limbdi D/C line at Dhuvaran CAPP 2XD/C	132	1
	2	Reconductoring of existing 132 kV lines from Dhuvaran TPS to Vatwa (D/C), Gondal (D/C), Karamsad(S/C), Limbdi (D/C) by Zebra conductor under R&M scheme		
	<b>Jamnagar TPS (2x250 MW)</b>			
	1	Jamnagar TPS-Kalawad D/C	220	30
	2	Jamnagar TPS-Rajkot D/C	220	60
	3	Jamnagar TPS-Motipaneli D/C	220	70
	<b>Sardar Sarovar HEP ( 6x200+5x50 MW ) (Guj. Portion)</b>		400	
	1	S. Sarovar-Limbdi S/C	400	250
	2	S. Sarovar-Asoj-Limbdi S/C	400	330
	3	Limbdi-Jetpur S/C	400	160
4	Limbdi S/S	400/220	500	
<b>Maharashtra</b>	<b>Parli TPP Ext.St.-I ( 1x250 MW )</b>			
	1	Parli TPS-Parli D/C	400	10
	2	Karad S/S (Aug.)	400/220	315
	3	Lonikand S/S (Aug.)	400/220	315
	<b>Sardar Sarovar HEP ( 6x200+5x50 MW ) (Mah. Portion)</b>			
	1	S. Sarovar-Dhule-Bableshtar D/C	400	346
	2	Dhule-Chalisgaon Strng. of 2nd ckt	220	60
	3	LILO of one ckt of Dhule-Chalisgaon at Malegaon D/C	220	41
	4	Dhule-Amalner D/C	132	45
	5	Dhule S/S	400/220	315
	6	Dhule S/S	400/132	200
	7	Dhule S/S	220/132	200
	<b>Ghatghar PSS ( 2x125 MW )</b>			
	1	Ghatghar-Bableshtar D/C	220	90
	2	LILO of one ckt of Nasik-Kalwa D/C line at Ghatghar	220	25
	<b>Dabhol CCGT St-II 1444 MW</b>			
	1	Dabhol-Nagothane S/C 2nd ckt	400	135
	2	Dabhol-Koyna (New) S/C 2nd ckt	400	50
	3	Nagothane-Vadkhal M/C line 2 cks	220	50
4	Koyna (New) S/S (Aug.)	400/220	315	
5	Nagothane S/S (Aug.)	400/220	315	

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>Madhya Pradesh</b>		<b>Sardar Sarovar HEP ( 5x50+6x200 MW ) ( MP portion )</b>		
	1	Sardar Sarovar-Nagda D/C (MP portion)	400	204
	2	Nagda-Indore D/C	400	165
		<b>Bina (TPS) M/S BPSCL ( 2x289 MW )</b>		
	1	Bina TPS-Bina 2xS/C	400	15
	2	Bina-Nagda D/C	400	355
		<b>Marikheda ( 2x20 MW ) (2003-04)</b>		
	1	Marikheda-Shivpuri D/C	132	10
		<b>Birsinghpur TPS Ext. 500MW</b>		
	1	Birsinghpur-Katni-Damoh D/C line (Presently operated at 220 kV) to be operated at 400 kV	400	
	2	LILO of both ckts of Korba STPS-Katni at Birsinghpur 2xD/C	400	15
	3	Damoh-Bina D/C line	400	250
	4	Extra works for BSTPS-Katni line at Katni	400	40
	5	Extra works for Katni-Damoh line at Damoh	400	20
	6	Katni-Narsinghpur D/C line	220	150
	7	LILO of 2nd ckt of Jabalpur-Itarsi D/C line at Narsinghpur	220	25
	8	Interconnector at Damoh D/C	220	20
		<b>Maheshwar HEP( 10x40 MW )</b>		
	1	Maheshwar-Pithampur D/C	220	60
	2	Maheshwar-Rajgarh D/C	220	45
	3	Maheshwar-Julwania D/C	220	30
	<b>Bansagar St.-II 30 MW</b>	132		
	<b>Bansagar St.-III 20 MW</b>	132		
	<b>Bansagar St.-IV 20 MW</b>	132		
1	LILO of one ckt of Bansagar-II-Bansagar-III D/C line at Bansagar-IV			
<b>Chhattisgarh</b>		<b>Korba (East Ext.) ( 2x210 MW )</b>	400	

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b>SOUTHERN REGION</b>				
AP		<b>Simhadri (2x500) &amp; Vishakhaptnm (2x520)</b>		
	1	Vizag TPS -Vizag kV S/S,2xD/C	400	50
	2	Vizag S/S (A.P.)- Gazuwaka S/S (PG),D/C	400	20
	3	Vizag S/S (A.P.)- Vemagiri S/S,D/C	400	208
	4	Vemagiri S/S -Vijaywada S/S (PG),D/C	400	180
	5	Vizag S/S (A.P.)- Khamam S/S (PG),D/C	400	390
	6	Khamam S/S (PG)- Hyderabad S/S (A.P.),D/C	400	200
	7	Simhadri TPS- Vizag S/S (A.P.),2xD/C	400	60
	8	Vizag S/S (A.P.)- Exim Park/D.Form ,D/C	220	15
	9	Vizag S/S (A.P.)- Pendurthi S/S,D/C	220	20
	10	Vizag switching Stn. (A.P.)- Pendurthi - Garividi Stringing of 2nd ckt.	220	96
	11	Gazuwaka (A.P.)- Exim Park/ D. Form,S/C on D/C	220	8
	12	LILO of 220 kV Vizag Sw. Stn.- Bommuru	220	5
	13	D/C line at Vemagiri S/S (Rajamundry S/S)	220	5
	14	Jegurupadu (GBS)- Vemagiri (400/220 kV),D/C	220	50
	15	Vizag (A.P.)	400/220	630
	16	Vemagiri (A.P.)	400/220	630
	17	Additional TRF (2nd) at Gazuwaka (PG) Exim Park/Dairy Form	400/220 220/132	315 200
	18	Additional TRF (2nd) at Pendurthi 220 kV S/S	220/132	100
AP		<b>Ramagundam TPP (BPL) 520 MW</b>		
	1	Ramagundam (BPL)-Ditchpally,S/C	400	150
	2	Ramagundam (BPL)- Gajwel S/S,S/C	400	170
	3	Gajwel S/S Hyderabad (Mamidipalli) S/S,S/C	400	60
	4	Ditchpally S/S	400/220	630
	5	Gajwel S/S	400/220	630
	6	Ditchpally 400/220 kV S/S-Ditchpally 220,D/C	220	10
	7	Ditchpally 400 kV S/S- Nirmal 220 kV s/s,S/C on D/C	220	70
	8	Gajwel 400/220 kV S/S- Minpur S/S 220,S/C on D/C	220	80
	9	Gajwel 400 kV S/S- Siddipet S/S, S/C on D/C	220	45
	10	Gajwel 400 kV S/S- Kamareddy S/S, S/C on D/C	220	90
	11	Ramagundam (BPL)-Malayalapally, D/C	220	5
	12	Kamareddy S/S	220/132	200
AP		<b>Srisailem LBPH 6X150 MW</b>		
	1	Evacuation system is completed	400	
AP		<b>Jurala Priya HEP 235 MW</b>		
	1	Jurala HEP- Mehboobnagar, D/C	220	130
AP		<b>Rayalseema St.-II 2x210 MW</b>		
	1	Muddanur - Kadiri, S/Con D/C	220	82
	2	Muddanur - Anatapur, 2nd Ckt.	220	110
	3	Muddanur - Hindupur,S/Con D/C	220	80
	4	Kadiri - Kalikiri,S/Con D/C	220	95
	5	Muddanur - Nandyal,S/Con D/C	220	96
	6	Kadiri S/S	220/132	100
AP		<b>Vemagiri-I 370 MW</b>		
	1	Vemagiri ccpp-Vemagiri S/S D/C	400	30
AP		<b>Gautami + MCC 464 MW</b>		
	1	Gautami-Vemagiri S/S D/C	400	100
AP		<b>Konnaseema CCGT(445 MW)</b>		
	1	Konnaseema - Vemagiri, D/C	220	50
AP		<b>Jegurupadu CCGT-II Stage (230 MW)</b>		
	1	Jegurupadu-Bommur,2nd ckt	220	70
	2	Jegurupadu-Ninadavole, 2nd ckt	220	70
	3	Nidadavole S/S	220/132	100
Karnataka		<b>Raichur TPS U-7 (210 MW)</b>		
	1	Raichur TPS - load centers,3xS/C	220	100
Karnataka		<b>Kaniminke CCGT 108 MW</b>		
	1	LILO of Peenya-Sommanhalli,D/C	220	5
Karnataka		<b>Hassan CCGT (189 MW)</b>		
	1	LILO of Banglore-Mysore at Bidadi	220	10

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
Karnataka		<b>Bellary TPS 500 MW</b>		
	1	LILO of Raichur-Devangiri at Vijayanagar, D/C	400	50
	2	Vijayanagar - Devangiri, S/C	400	130
Karnataka		<b>Alamati Dam 290 MW</b>		
	1	LILO of BBWadi-Bagalkot at AlamatiHEP, 2xD/C	220	60
Kerala		<b>Kuttiyadi Ext(100 MW)</b>	Lower Voltg	
	1	Evacuation at lower voltage level		
TN		<b>Pykara HEP Ultimate (150 MW)</b>		
	1	Pykara-Arasur, D/C	220	80
TN		<b>Neyveli TPS - Zero Unit (250 MW)</b>		
	1	LILO of Neyveli TSII - Parambalur S/C line at Ney.Zero, D/C	230	4
	2	LILO of 230 Neyveli TS II- Athur S/C line at Ney. Zero, D/C	230	4
TN		<b>Kuttralam Gas 100 MW</b>		
	1	Evacuation at lower level		
TN		<b>Perugulam (94 MW)</b>		
	1	Evacuation at lower level		
TN		<b>Bhawani Kathalai 1&amp;2 (120 MW)</b>		
	1	Evacuation at lower level		
<b><u>EASTERN REGION</u></b>				
Jharkhand		<b>Jojobera Tps (120)</b>		
		Evacuation at Lower voltage		
Jharkhand		<b>Tenughat Ext.(3X210)</b>		
	1	Tenughat-Ranchi D/C	400	100
	2	Ranchi-Chandil D/C	220	125
	3	Chandil-Jamshedpur D/C	220	15
	4	Garwah Road-Dehri D/C	220	140
	5	Garwah Road, Jamshedpur S/S's	220/132	400
Bihar		<b>Bihta TPS (135)</b>		
	1	LILO of Arrh- Patna S/C at Bihta	220	10
Orissa		<b>Balimela Ext.(2X75)</b>		
	1	Balimela-Jeypore D/C	220	100
W.B.		<b>Purulia PSS 4X225)</b>		
	1	Purulia-Bidhannagar D/C	400	160
	2	Purulia-Arambag D/C	400	150
W.B.		<b>Bakreshwer TPS U4-5 (2X210)</b>		
		Exiting 400,220 kv systems are Adequate		
W.B.		<b>Sagardighi I (500)</b>		
	1	Sagardighi-Kahalgaon, S/C	400	200
	2	LILO of Farrakka-Jeerat- Subhashgram S/C at Sagardighi	400	40

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
<b><u>NORTH EASTERN REGION</u></b>				
<b>Arunachal Pradesh</b>		<b>System Strengthening schemes</b>		
	1	Along - Roing via Passighat S/C Passighat S/S Roing S/S	132 132/33 132/33	75 2x5 2x5
	2	Kathalguri - Deomali S/C Deomali S/S	220 220/132/33	18 4x33.3 2x16
	3	Zero to Along via Daporijo S/C Daporijo S/S Along S/S	132 132/33 132/33	169 2x5 4x5
	4	Itanagar - Seppa	132	80
	5	Zero - Daporijo	132	90
	6	Daporijo - Along	132	75
	7	Deomali - Miao	132	172
	8	Miao - Tezu	132	75
	9	Tenga - Lahao (Jang)	132	99
	10	Seppa S/S	132/33	2x5
	11	Tezu S/S	132/33	4x5(I-ph)
	12	Miao S/S	132/33	2x5
	13	Itanagar S/S	132/33	4x5(I-ph)
	14	Lahao (Jang)	132/33	2x5
	15	Deomali to Namsai via Khonsa and Changlang S/C Khonsa S/s Changlang S/s Namsai S/s	132 132/33 132/33 132/33	172 1x10 1x10 1x10
<b>Assam</b>		<b>Karbi Longpi HEP (2x50 MW)</b>		
	1	Longpi - Guwahati D/C	220	
		<b>Lakwa WH (1x38 MW)</b>		
	1	Existing system adequate	132	
		<b>System Strengthening schemes</b>		
	1	Kathalguri - Tinsukhia	220	30
	2	Lanka - Halflong	132	75
	3	Halflong - Badarpur	132	111
	4	Renovation of BTPS-Agia-Sarusajai 220 kv D/C line (reconductoring)	220	198
	5	Balipara S/s Lilo of Deopata - Gohpur 132 kv S/c line at Balipara	220/132 132	1x50 12
	6	Balipara (PGCIL)- Balipara ( Chariduar) 132 kv S/C Balipara(Chariduar) S/s	132 132/33	17 2x16
	7	Aug. of Sarusajai S/S(Replacement of existing)	220/132	2x100
	8	Aug. of Sarusajai S/s Umiam Stg.-IV - Sarusajai 132 kV (Assam portion)	220/132 132	1x100 9
		<b>Spill over works</b>		
	1	Lakwa -Dibrugarh S/C	132	67
	2	Nazira - Lakwa S/C ( stringing of 2nd Ckt.)	132	21
	3	Tinsukhia - Marghretta D/C	132	52
	4	Lanka - Diphu S/C	132	72
	5	Silapathar - Dhemaji S/C	132	46
	6	Agia - Boko S/C	132	71
	7	Jorhat Bokakhat S/C	132	77
	8	Khandong - Umrangso S/C	132	14
	9	Dhemaji - Dhakuakhana S/C	132	27
	10	Umiam Stg. IV - Sarusajai D/C	132	8
	11	Mariani -Mokokchung S/C	132	-
	12	Agia S/S	220/132 132/33	1x25 1x16
	13	Dhemaji S/S	132/66 132/33	1x16 1x16
<b>Manipur</b>		<b>Manipur DG ( 18 Mw)</b>		
	1	Evacuation at lower voltage		
		<b>System Strengthening schemes</b>		
	1	Lilo of Loktak - Jiribam 132 kv S/C line at Rengpong D/C	132	2.5
	2	Rengpong S/S	132/33	12.6
<b>Meghalaya</b>		<b>Myntdu Hep (2x42 MW)</b>		
	1	Myntdu - Khliehriat D/C	132	23
		<b>Byrnihat HFO ( 24 MW )</b>		
	1	Byrnihat - Umtru D/C	132	
		<b>Mendipathar HFO ( 24 MW)</b>		
	1	Lilo of Nagalbibra - Agia At Mendipathar D/C	132	4

Executing Agency	Sl. No.	Project Name & Transmission Works	Voltage (kV)	RL(Km)/MVA
		<b>System Strengthening schemes</b>		
	1	Augmentation of Nehu S/S	132/33	1x20
		<b>Spill over works</b>		
	1	Nangalbibra - Agia S/C on D/C	132	110
	2	Nongstoin S/S	132/33	1x12.5
	3	EPIP S/S	132/33	1x20
		<b>New Proposals</b>		
	1	Badarpur/silchar - Shillong D/C	220	160
	2	Shillong ( new S/s) - Byrnihat D/C	220	50
	3	Shillong (new S/s) - Shillong (Existing S/s) D/C	132	5
	4	Khliehriat (Sw. Stn) - Khliehriat S/s - S/c ( Second Ckt.)	132	13
	5	LILO of Agia- Nagalbibra S/c line at Mendipathar - D/C	132	5
	6	Shillong S/s	220/132	100
	7	Misa- Byrnihat 220 kV D/C	220	115
		Byrnihat (Tamulikuchi) S/S	220/132	1x100
<b>Mizoram</b>		<b>Bairabi HEP ( 2x40 Mw)</b>		
	1	Bairabi - Kolasib S/C	132	35
		Bairabi - Aizawl D/C	132	100
		<b>Bairabi (Thermal) (4x5.73 Mw)</b>		
	1	Bairabi TPS - Kolasib S/C	132	28
		<b>System Strengthening schemes</b>		
	1	Saitual - Darlawn S/C	132	57
	2	Khawzawl - Ngopa S/C	132	57
	3	Khawzawl - E. Lungdar	132	48
	4	Tuirial - Kolasib S/C	132	42
	5	Kolasib S/S	132/33	1x6.3
		<b>New Proposals</b>		
	1	Bairabi - Zamuang S/C	132	20
	2	Lawngtlai - Tuipang S/C	132	40
	3	Aizawl - Kolasib S/C	132	55
	4	Aizawl -(Luangmual) (PGCIL) - Aizawl ( Central)	132	15
	5	Aizawl -(Zemabawk, Upper) - Aizawl ( Central)	132	25
	6	Lawngtlai - S. Bungtlang S/C	132	60
	7	Khazawal - Champai S/C	132	30
	8	Aizawl ( Central S/S)	132/33	2x12.5
	9	West Phaileng S/S	132/33	2x6.3
	10	Luangmual S/S (Augmentation)	132/33	1x12.5
	11	Bairabi S/S	132/33	1x6.3
	12	Lawngtlai S/S	132/33	1x6.3
<b>Nagaland</b>		<b>System Strengthening schemes</b>		
	1	Augmentation and extension of Mokochung S/S at Aolichin	132/66	2x12.5
<b>Tripura</b>		<b>Baramura GBPS ( 21 MW)</b>		
	1	Existing system adequate		
		<b>Rokhia Unit-VII ( 21 MW)</b>		
	1	Existing system adequate		
		<b>Spill over works</b>		
	1	Agartala - Kumarghat via Khowai and Kamalpur S/C	132	110
	2	Kumarghat - Kailashahar S/C	132	17