



पश्चिम क्षेत्रीय भार प्रेषण केंद्र कि  
नवम्बर 2009 माह की प्रणाली प्रचालन  
रिपोर्ट

**System Operation Report  
Of Western Region  
For the month of  
Nov 2009**

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड  
पश्चिम क्षेत्रीय भार प्रेषण केन्द्र  
एफ -3 एम.आय.डि.सी., मरोल, अंधेरी( पूर्व )  
मुम्बई-400093

POWERGRID CORPORATION OF INDIA LTD  
WESTERN REGIONAL LOAD DESPATCH CENTRE  
F-3,MIDC,MAROL,ANDHERI(E),MUMBAI-400093

माह नवम्बर 09 में पश्चिम क्षेत्र का निष्पादन डाटा

Performance of Western Regional Grid during November -2009

**1.0 Schedule and Drawal Of Constituents from Central sector**

Sl. No.	State/U.T/ System	Schedule (Mus)	Actual Drawal (MUs)	Total Over (+)/Under (-)drawal (MUs)	Overdrawal at Freq. <49Hz (MUs)	Underdrawal at Freq. >50.5Hz (MUs)
1	गुजरात Gujarat	1326.34	1114.68	-211.66	0.087	1.245
2	मध्य प्रदेश Madhya Pradesh	1396.17	1284.17	-112	0.087	5.581
3	महाराष्ट्र Maharashtra	1990.66	2110.29	119.63	0.436	1.431
4	छत्तिसगढ Chhattisgarh	-423.99	-687.67	-263.68	0	12.133
5	गोवा Goa	194.88	179.39	-15.49	0.023	1.478
6	दमन और दीव D&D	186.57	135	-51.57	0.006	1.994
7	दादर नगर हवेली DNH	336.61	314.05	-22.55	0.041	0.577
8	पावरग्रिड एचवीडीसी PG(HVDC)	0	0	0		
9	कुल TOTAL	5007.24	4449.91			

माह नवम्बर 09 में अंतर क्षेत्र से पश्चिम क्षेत्र को विद्युत विनिमय

**Inter-Regional Exchange of Power in Western Region during Nov. - 2009**

<b>LINES</b>	<b>Import ( Mus )</b>
ER(NTPC ) to GUVNL	23.928
ER(NTPC ) to MPPTCL	13.164
ER(NTPC ) to CSEB	5.34
ER(NTPC ) to MSEDCL	24.566
ER(NTPC ) to GOA	NIL
ER(NTPC ) to DD- AC link	0.347
ER(NTPC ) to DNH- AC link	0.534
PSEB TO MPSEB ( LANCO )	68.951
BSES ( RAJ ) TO MPSEB ( LANCO )	6.569
WBSEB TO MSEB ( TPTCL )	3.100
BSES ( DTL ) TO MPSEB ( GMRETL )	0.896
WBSEB TO REL MSEB ( IEXL )	0.097
BSES YM ( DTL ) TO MPSEB ( GMRETL )	0.896
GOA ( SR ) TO GOA ( WHEELING )	6.798
NBFAL ( AP ) TO MSEB ( RETL )	19.404
BSES YM ( DTL ) TO MPSEB ( LANCO )	25.572
BSES ( DTL ) TO MPSEB ( LANCO )	17.630
DVC to MPPTCL (Long Term Open Access )	29.259
NGLD TO RINFRA MSEB ( NGLD )	3.451
AP-NER TO RINFRA MSEB ( AP-NER )	0.318
NDPL ( DTL ) TO MPSEB ( PTC )	24.000
HARIYANA TO MPSEB ( MPPL MPSEB )	27.542
HIRAKUD TO CSEB	1.275
RIHAND ( HYDRO ) TO MPPTCL ( LONG TERM OPEN ACCESS )	3.476
MATATILA ( HYDRO ) TO MPPTCL ( LONG TERM OPEN ACCESS )	5.078
TISCO TO MSEB ( TPTCL )	0.382
NBFAL ( AP ) TO RINFRA MSEB ( RETL )	28.681
NBFAL ( AP ) TO MSEB ( TPTCL )	11.818
<b>NET IMPORT FROM NR</b>	<b>0.117</b>
<b>NET IMPORT FROM SR</b>	<b>2.627</b>
<b>NET IMPORT FROM ER</b>	<b>2.646</b>

<b>Lines</b>	<b>Export(Mus)</b>
ER ISGS TO S. REGION ( WHEELING )	1.738
TALCHER - II -ER TO S. REGION ( WHEELING )	0.675
AIDCPL CSEB TO UPPCL ( KISPL )	0.811
TPC MSEB TO UPPCL ( TPTCL )	2.876
AFAL CSEB TO UPPCL ( KISPL )	3.405
AIDCPL CSEB TO UPPCL ( KISPL )	2.868
BPIL CSEB TO UPPCL (KISPL )	8.868
CSPL CSEB TO UPPCL ( KISPL )	9.745
BALCO CSEB TO UPPCL ( KISPL )	11.922
GPIL CSEB TO UPPCL ( KISPL )	16.554
HFAL CSEB TO UPPCL ( KISPL )	9.435
HPSL CSEB TO UPPCL ( KISPL )	9.451
JPL TO UPPCL ( JPL )	9.674
MIEL CSEB TO UPPCL ( KISPL )	1.84
JPL TO UPPCL ( NVVNL )	25.506
JPAL CSEB TO UPPCL ( KISPL )	11.419
BALCO CSEB TO JVVNL ( LANCO )	44.928
CSPL CSEB TO UPPCL ( KISPL )	2.265
SALS GUVNL TO RPPC ( NVVNL )	8.483
MIELMH CSEB TO UPPCL ( KISPL)	0.376
SPEL TO UPPCL ( KISPL )	0.592
SPEL TO UPPCL ( KISPL )	1.963
SNIL CSEB TO UPPCL ( KISPL )	6.710
VGL CSEB TO UPPCL ( KISPL )	16.475
SCPL CSEB TO UPPCL ( KISPL )	1.448
BALCO CSEB TO UPPCL ( KISPL )	50.94
SEML CSEB TO UPPCL ( KISPL )	9.209
RSIPIL CSEB TO UPPCL ( KISPL )	2.832
RREL CSEB TO UPPCL ( KISPL )	6.470
TORRENT GUVNL TO JVVNL ( NVVNL )	56.884
MIEL CSEB TO JVVNL ( PTC )	16.368
JPL TO JVVNL ( PTC )	90.942
SKSIP CSEB TO JVVNL ( LANCO )	10.117
JPL TO JVVNL ( NVVNL )	12.356
GFL GUVNL TO JVVNL ( TPTCL )	1.524
GFL GUVNL TO JVVNL ( LANCO )	2.87
CSEB TO JVVNL ( PTC )	52.509
APL TO UPCL ( AEL )	31.423
CSEB TO JK ( NVVNL )	5.754

CSEB TO TNEB ( PTC )	50.451
JPL TO UPPCL ( JPL )	11.204
TALCHER - II -ER TO S. REGION ( WHEELING )	0.603
ER ISGS TO S. REGION ( WHEELING )	1.643
CSEB TO APPCC ( NVVNL )	0.189
MCPL MPSEB TO RPPC ( NVVNL )	3.696
JPL TO RPPC ( NVVNL )	32.584
JPL TO BSES_RAJ ( JPL )	4.723
JPL TO BSES ( DTL ) ( JPL )	0.472
VIL CSEB TO UPPCL ( KISPL )	2.830
ACC( KYMORE) MPSEB TO JVVNL ( TPTCL )	1.622
WELSPUN GUVNL TO JVVNL ( TPTCL )	5.349
CSEB TO JK ( NVVNL )	37.324
MSPPL CSEB TO UPPCL ( KISPL )	2.846
MIEL CSEB TO UPPCL ( KISPL )	11.298
MIELMH CSEB TO UPPCL ( KISPL )	12.342
MSPPL CSEB TO UPPCL ( KISPL )	1.643
MECBL CSEB TO UPPCL ( KISPL )	2.052
REALISPAT CSEB TO UPPCL ( KISPL )	5.975
<b>NET EXPORT TO SR</b>	<b>215.264</b>
<b>NET EXPORT TO NR</b>	<b>887.674</b>
<b>NET EXPORT TO ER</b>	<b>390.144</b>

आवृत्ति रूपरेखा

a. Frequency Profile

MAXIMUM FREQUENCY( Inst.): आधिकतम आवृत्ती एकेकृत :	50.58 HZ
Minimum frequency(Inst) न्यूनतम आवृत्ती एकेकृत :	48.87 HZ
Average frequency औसत आवृत्ती	49.88 HZ

b. आवृत्ती वितरण प्रतिशत में Frequency distribution in %

HZ	<48.8	<48.8 - 49.2	49.2 -49.8	49.8-50.3	50.3-51.0	>51.0
%	0	0.45	38.21	55.76	5.58	0.00

Power Supply Position and Peak Demand / Met In Western Region

a. विद्युत पूर्ति की स्थिति Power Supply Position

	NOV -09			APR -09 TO NOV -09		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
<b>Gujarat</b>	6499	5989	7.85	48063	46580	3.09
<b>CSEB</b>	620	590	4.84	8721	8373	3.99
<b>MPSEB</b>	3664	3199	12.69	27224	22689	16.66
<b>Maharashtra</b>	9991	8351	16.41	83920	69595	17.07
<b>Goa</b>	254	249	1.97	1984	1942	2.12
<b>D&amp;D</b>	149	147	1.34	1196	1167	2.42
<b>DNH</b>	336	334	0.60	2525	2469	2.22
<b>Western Region</b>	21513	18859	12.34	173599	152816	11.97

**b. Peak Demand / Demand Met(MW)**

	NOV -09			APR -09 to NOV -09		
	Requirement (MW)	Availability (MW)	Shortage (%)	Requirement (MW)	Availability (MW)	Shortage (%)
<b>Gujarat</b>	10156	9264	8.78	10855	9964	8.21
<b>CSEB</b>	2643	2557	3.25	2996	2880	3.87
<b>MPSEB</b>	7098	6153	13.31	7098	6197	12.69
<b>Maharashtra</b>	19095	14456	24.29	19151	14801	22.71
<b>Goa</b>	469	422	10.02	469	422	10.02
<b>D&amp;D</b>	230	218	5.22	280	255	8.93
<b>DNH</b>	458	458	0.00	509	461	9.43
<b>Western **Region</b>	39208	32290	17.64	39208	32718	16.55

\*\*Regional demand met is the simultaneous demand met and not the sum of demand met by constituent .

दिनांक 30 | 11 | 2009 को राज्यानुसार संस्थापित क्षमता

INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS ON 30.11.2009

(All fig. in MW)

State	Ownership	Hydro	Coal	Gas	Nuclear	Total	Diesel	RES	Total
Gujarat	State	772.00	4190.00	892.72	0.00	5854.72	17.28	24.30	5896.30
	Private	0.00	980.00	2577.50	0.00	3557.50	0.20	1618.11	5175.81
	Central(firm allo)	0.00	1462.00	424.00	559.00	2445.00	0.00	0.00	2445.00
	Total	772.00	6632.00	3894.22	559.00	11857.22	17.48	1642.41	13517.11
Madhya Pradesh	State	1703.67	2932.00	0.00	0.00	4635.67	0.00	71.76	4707.43
	Private	0.00	0.00	0.00	0.00	0.00	0.00	216.05	216.05
	Central(firm allo)	1520.00	1450.00	257.00	273.00	3500.00	0.00	0.00	3500.00
	Total	3223.67	4382.00	257.00	273.00	8135.67	0.00	287.81	8423.48
Chhattisgarh	State	120.00	2280.00	0.00	0.00	2400.00	0.00	19.05	2419.05
	Private	0.00	1300.00	0.00	0.00	1300.00	0.00	165.90	1465.90
	Central(firm allo)	0.00	493.00	0.00	48.00	541.00	0.00	0.00	541.00
	Total	120.00	4073.00	0.00	48.00	4241.00	0.00	184.95	4425.95
Maharashtra	State	2884.83	6800.00	912.00	0.00	10596.83	0.00	213.73	10810.56
	Private	447.00	1900.00	180.00	0.00	2527.00	0.00	2204.23	4731.23
	Central(firm allo)	0.00	1953.66	2624.00	690.00	5267.66	0.00	0.00	5267.66
	Total	3331.83	10653.66	3716.00	690.00	18391.49	0.00	2417.96	20809.45
Goa	State	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05
	Private	0.00	0.00	48.00	0.00	48.00	0.00	30.00	78.00
	Central(firm allo)	0.00	277.00	0.00	26.00	303.00	0.00	0.00	303.00
	Total	0.00	277.00	48.00	26.00	351.00	0.00	30.05	381.05
DD	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Central(firm allo)	0.00	18.32	4.00	7.00	29.32	0.00	0.00	29.32
	Total	0.00	18.32	4.00	7.00	29.32	0.00	0.00	29.32
DNH	State	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Private	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Central(firm allo)	0.00	21.00	27.00	9.00	57.00	0.00	0.00	57.00
	Total	0.00	21.00	27.00	9.00	57.00	0.00	0.00	57.00
WR	State	5480.50	16202.00	1804.72	0.00	23487.22	17.28	328.89	23833.39
	Private	447.00	4180.00	2805.50	0.00	7432.50	0.20	4234.29	11666.99
	Central(firm allo)*	1520.00	5675.30	3336.00	1612.00	12143.30	0.00	0.00	12143.30
	Unallocated	0.00	950.00	197.59	228.00	1375.59	0.00	0.00	1375.59
	Total	7447.50	27007.30	8143.81	1840.00	44438.61	17.48	4563.18	49019.27

Note - Renewable Energy Sources (RES) includes Small Hydro Project, Biomass Gasifier, Biomass Power, Urban & Industrial Waste Power

\* Kahlgaon STPP stage II U#7 (500MW) of NTPC station in ER commissioned (i.e. achieved full load) on 31.07.09

Firm allocation of WR beneficiaries viz Guj-47,MP-24.66,Chh-10,Mah-49.33,Goa-0,DD-0.66 and DNH-1.00 MW totalling to 132.65MW has been included in the installed capacity of WR.



**दिनांक 30.11.09 को पश्चिमी क्षेत्र में इकाई अनुसार संस्थापित क्षमता**  
**UNITWISE INSTALLED CAPACITY IN WESTERN REGION AS ON 30.11.09**

**(A) गुजरात (GUJARAT)**

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Uprated
<b>जलीय (HYDRO)</b>				
1	Ukai (H)	4 x 75	300.00	300.00
2	Kadana	4 x 60	240.00	240.00
3	Sardar Sarovar	16% (5x50 + 6x200)	232.00	232.00
4	Ukai (LBCH)	2 x 2.5	5.00	5.00
5	Panam	1x2	2.00	2.00
<b>Total Hydro</b>			<b>779.00</b>	<b>779.00</b>
<b>गैस(GAS)</b>				
1	Dhuvaran	1 x 72	72.00	72.00
2	Dhuvaran CCPP	1x67.85+1x38.77 (ST)	146.62	146.62
3	Utran CGPP-1	1x45+3 x 33	144.00	135.00
4	Utran CGPP-II	GT+ST	374.00	374.00
5	Hazira CCGT-GSEG	2x52+1x52.1(ST)	156.10	156.10
6	Torrent power	2 x 32.5 + 1 x 35	100.00	100.00
7	GIPCL (Baroda)	1x106+1x54	160.00	160.00
8	Essar Gas (Private S	3x110+1x185(ST)	515.00	515.00
9	GPEC (Private Sec.)	3x135+1x250(ST)	655.00	655.00
10	Sugen CCPP - Torre	1x382.5	382.50	382.50
<b>Total Gas</b>			<b>2705.22</b>	<b>2696.22</b>
<b>तापीय(THERMAL)</b>				
1	Dhuvaran	2x110	220.00	220.00
2	Ukai	2x120+2x200+1x210	850.00	850.00
3	Gandhinagar	2x120+2x210+1x210	870.00	870.00
4	Wanakbori	6x210+1*210	1470.00	1470.00
5	Sikka	2x120	240.00	240.00
6	Kutch Lignite	2x70+1x75	215.00	215.00
7	Akrimopa Lignite	2x125	250.00	250.00
8	AE Co. (Private)	2x30+3x110	390.00	400.00
9	Surat Lignite (Private	2x125	250.00	250.00
<b>Total Thermal</b>			<b>4755.00</b>	<b>4765.00</b>
<b>TOTAL (HY+ G + TH)</b>			<b>8239.22</b>	<b>8240.22</b>
Total Diesel			17.48	<b>17.48</b>
RES (incl wind+BG+BP+U&I)			1397.50	1397.50
<b>Grand Total</b>			<b>9654.20</b>	<b>9655.20</b>

**(B) मध्यप्रदेश (MADHYAPRADESH)**

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Uprated
<b>जलीय (HYDRO)</b>				
1	<b>Chambal Hydro Projects</b>			
a	Gandhisagar (Share)	5x23 (50%)#	57.50	57.50
b	R.P.Sagar (Share)	4x43 (50%)#	86.00	86.00
c	Jawahar (Sagar)	3x33 (50%)#	49.50	49.50
2	Pench (Share)	2x80 (66.67%)\$	106.67	106.67
3	Bargi	2x45	90.00	90.00
4	Bansagar Tons stage	3x105+2x15+3x20+2X	425.00	425.00
5	Rajghat	3x15 (50%)	22.50	22.50
6	Sardar Sarovar	57% (5x50 + 6x200)	826.50	826.50

7	Madhikheda HPS	2X20	40.00	40.00
8	Indira Sagar	8x125	1000.00	1000.00
9	Omkareshwar	8x65	520.00	520.00
<b>Hydro included in RES</b>				
10	Satpura Micro HPS	0.5x2	1.00	1.00
11	Birsingpur	1X20	20.00	20.00
12	Bargi (LBC)	2X5	10.00	10.00
13	Tawa Hydro PS (Pvt.	1x13.5	13.50	13.50
14	Madikheda HPS	1x20	20.00	20.00
<b>Total hydro</b>			<b>3288.17</b>	<b>3288.17</b>
<b>तापीय(THERMAL)</b>				
1	Amarkantak	2x120+1x210	450.00	450.00
2	Satpura -I	5x62.5 (60 %)#	187.50	187.50
3	Satpura -II	1x200+1x210	410.00	410.00
4	Satpura -III	2x210	420.00	420.00
5	Sanjay Gandhi	4x210+1x500	1340.00	1340.00
<b>Total Thermal</b>			<b>2807.50</b>	<b>2807.50</b>
<b>TOTAL (HY+ TH)</b>			<b>6095.67</b>	<b>6095.67</b>
RES (incl wind+BG+BP+U&I)			262.71	262.71
<b>Grand Total</b>			<b>6358.38</b>	<b>6358.38</b>

**(C) छत्तीसगढ़ (CHHATTISGARH)**

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Uprated
<b>जलीय (HYDRO)</b>				
1	Hasdeo Bango	3x40	120.00	120.00
<b>Hydro included in RES</b>				
2	Gangrel	2x2.5	5.00	5.00
<b>Total Hydro</b>			<b>125.00</b>	<b>125.00</b>
<b>तापीय(THERMAL)</b>				
1	Korba (E)-II, III, IV	4x50+2x120	440.00	440.00
2	Korba (E) Extn.-V	2x250	500.00	500.00
3	Korba (W)	4x210	840.00	840.00
4	NSPCL	2x250	500.00	500.00
5	Jindal TPP	4x250	1000.00	1000.00
6	Lanco	1x330	330.00	330.00
<b>Total Thermal</b>			<b>3610.00</b>	<b>3610.00</b>
<b>TOTAL (HY+ TH)</b>			<b>3735.00</b>	<b>3735.00</b>
RES (incl wind+BG+BP+U&I)			174.15	174.15
<b>Grand Total</b>			<b>3909.15</b>	<b>3909.15</b>

**(D) महाराष्ट्र (MAHARASHTRA)**

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Uprated
<b>जलीय (HYDRO)</b>				
1	Koyna -I	4x80	320.00	320.00
2	Koyna-II	4x70	280.00	280.00
3	Koyna-III	4x80	320.00	320.00
4	Koyna-IV	4x250	1000.00	1000.00
5	Koyna-DPH	2x20	40.00	36.00
6	Vaitarna	1x60	60.00	60.00
7	Bhira - TR	2x40	80.00	80.00
8	Tillari	1x60	60.00	60.00
9	Bhandardara	1x34	34.00	34.00
10	Pench- (33.33 %) Sh	2x80	53.33	53.33
11	Sardar Sarovar	27% (5x50 + 6x200)	391.50	391.50

12	Ghatghar PSS	2x125	250.00	250.00
13	Bhira	6x25	150.00	150.00
14	Bhivpuri	3x24	72.00	72.00
15	Khopoli	6x12	72.00	72.00
16	Bhira PSU	1x150	150.00	150.00
<b>Hydro included in RES</b>				
17	Bhandardara	1x12	12	12
18	Bhatghar	1x16	16	16
19	Bhatsa	1x15	15.00	15.00
20	Dimbhe	1x5	5.00	5.00
21	Dhom	2x1	2.00	2.00
22	Dudhganga	2x12	24.00	24.00
23	Eldari	3x7.5	22.50	22.50
24	Kanhar	1x4	4.00	4.00
25	Panshet	1x8	8.00	8.00
26	Varasgaon	1x8	8.00	8.00
27	Manikdoh	1x6	6.00	6.00
28	Paithan	1x12	12.00	12.00
29	Pawana	1x10	10.00	10.00
30	Radhanagari	4x1.2	4.80	4.80
31	Surya	1x6	6.00	6.00
32	Surya	3x0.25	0.75	0.75
33	Terwanmedhe	1x0.2	0.20	0.20
34	Ujjani	1x12	12.00	12.00
35	Vaitarna DTPH	1x1.5	1.50	1.50
36	Vir	2x4.5	9.00	9.00
37	Warna	2x8	16.00	16.00
38	Yeoteshwar	1x0.08	0.08	0.08
39	Bhivpuri	2x12 +2 X 1.5	27.00	27.00
40	Khopoli	2x12	24.00	24.00
<b>Total Hydro</b>			<b>3578.66</b>	<b>3574.66</b>
<b>गॅस(GAS)</b>				
1	Uran	4x60+4x108	672.00	612.00
2	Uran WHR	2x120	240.00	240.00
3	Trombay (7A & 7 B)	1x120+1x60	180.00	180.00
4	Ratnagiri GPPL Phase	CTG1A+CTG1B+STG1	740.00	740.00
		CTG2A+CTG2B+STG2	740.00	740.00
		CTG3A+CTG3B+STG3	740.00	740.00
<b>Total Gas</b>			<b>3312.00</b>	<b>3252.00</b>
<b>तापीय(THERMAL)</b>				
1	Nasik	2x125+3x210	880.00	880.00
2	Koradi	4x105+1x200+2x210	1040.00	1040.00
3	Bhusawal	1x55+2x210	475.00	475.00
4	Parli	2x20+3x210	670.00	670.00
5	New Parli TPS	1x250	250.00	250.00
6	Khaparkheda	4x210	840.00	840.00
7	Chandrapur	4x210+3x500	2340.00	2340.00
8	Paras	1x55	55.00	55.00
9	Paras Ext.	1x250	250.00	250.00
10	REL -Dahanu(BSES)	2x250	500.00	500.00
11	Trombay TPC	1x150+2x500+1x250	1400.00	1400.00
<b>Total Thermal</b>			<b>8700.00</b>	<b>8700.00</b>
<b>TOTAL (HY+ G + TH)</b>			<b>12160.00</b>	<b>12100.00</b>
RES (incl wind+BG+BP+U&I)			2159.21	2159.21
<b>Grand Total</b>			<b>14319.21</b>	<b>14259.21</b>

(E) गोवा (GOA)

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Upated
	<b>गैस(GAS)</b>			
1	Reliance Salgaonkar	1x39.82+1X8.2	48.00	48.00
		<b>Total Gas</b>	<b>48.00</b>	<b>48.00</b>
		RES (incl wind+BG+BP+U&I)	30.05	30.05
		<b>Grand Total</b>	<b>78.05</b>	<b>78.05</b>

**(I) केन्द्रीय क्षेत्र (CENTRAL SECTOR)**

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Upated
	<b>गैस(GAS)</b>			
1	Kawas GPS	4x106+2x116.1	656.20	656.20
2	Gandhar GPS	3x144.3+1x224.49	657.39	657.39
		<b>TOTAL (GAS)</b>	<b>3533.59</b>	<b>3533.59</b>
	<b>तापीय(THERMAL)</b>			
1	Korba STPS	3x200+3x500	2100.00	2100.00
2	Vindhyachal STPS I,	6x210+2x500+2X500	3260.00	3260.00
3	Sipat STPS-II	2x500	1000.00	1000.00
		<b>TOTAL (THERMAL)</b>	<b>6360.00</b>	<b>6360.00</b>
	<b>न्युक्लीयर (NUCLEAR)</b>			
1	TAPS 1 & 2	2x160	320.00	320.00
2	TAPP 3&4	2x540	1080.00	1080.00
3	Kakrapar APS	2x220	440.00	440.00
		<b>TOTAL (NUCLEAR)</b>	<b>1840.00</b>	<b>1840.00</b>
		<b>TOTAL (G + TH+ N)</b>	<b>11733.59</b>	<b>11733.59</b>
<b>TOTAL INSTALLED CAPACITY WESTERN REGION</b>			<b>46052.58</b>	<b>45993.58</b>

माह नवम्बर 09 में ग्रिड के प्रमुख उप केन्द्र का विद्युतदाब रूपरेखा

1. Voltage Profile of major Sub-Stations for the month of November -2009

क्षेत्र Region	सब स्टेशनका नाम  Sub- Station Name	अधिकतम विद्युतदाब Nominal  Voltage (kV)	विद्युतदाब स्थिती (प्रतिशत समय)  Percentage of time when voltage			अधिकतम विद्युतदाब Max.  Voltage (kV)	न्यूनतम विद्युतदाब Min.  Voltage (kV)	संक्षिप्त स्पष्टीकरण Brief Explanation
			Below 0.97p.u.	0.97- 1.03p.u	Above 1.03 p.u.			
Western	धुले Dhule	400	0	6.45	93.55	440	398	
	असोज Asoj	400	0	3.80	96.20	428	400	
	कराड Karad	400	0	14.77	85.23	429	396	
	कासोर Kasor	400	0	60.00	40.00	429	400	
	इन्दौर Indore	400	0.12	69.63	30.25	424	381	
	इटारसी Itarsi	400	0	24.34	75.66	428	391	
	जेतपुर Jetpur	400	35.26	52.52	12.22	415	371	
	भिलाई Bhilai	400	0	63.80	36.20	423	398	
	बिना Bina	400	1.55	78.20	20.25	423	384	
	ग्वालियर Gwalior	400	10.47	69.20	20.33	432	362	

**PEAK DEMAND FOR NOV.2009**

State	Catered	UNSCH LS	FC	SCHLS	Total	Date	Time	Freq.
<b>दिव दमण DD</b>								
पंजीकृत Registered	207	-	-	-	207	24.11.09	16:00	49.66
<b>दादरा नगर हवेली DNH</b>								
पंजीकृत Registered	453	-	-	-	453	21.11.09	19:00	49.82
<b>गुजरात GUJARAT</b>								
पंजीकृत Registered	9264	-	-	-	9264	09.11.09	19:00	49.92
आंकलित Computed	9255	732	159	-	10146	07.11.09	12:00	49.51
असीमित Unrestricted	9264	826	26	40.00	10156	09.11.09	19:00	49.92
<b>छत्तीसगढ रा .वि.बोर्ड Chhattisgarh</b>								
पंजीकृत Registered	2557	-	-	-	2557	05.11.09	19:00	49.64
आंकलित Computed	2553	0	44		2597	06.11.09	19:00	49.51
असीमित Unrestricted	2553	0	44	46	2643	06.11.09	19:00	49.51
<b>मध्य प्रदेश रा .वि.बोर्ड Madhy Pradesh</b>								
पंजीकृत Registered	6153	-	-	-	6153	08.11.09	4:00	50.00
आंकलित Computed	6144	0	43	-	6187	08.11.09	5:00	49.80
असीमित Unrestricted	5967	0	56	1075	7098	07.11.09	21:00	49.73
<b>महाराष्ट्र रा .वि.बोर्ड-MAHA-RASHTRA</b>								
पंजीकृत Registered	14456	-	-	-	14456	04.11.09	19:00	49.84
आंकलित Computed	13740	4782	173	-	18695	05.11.09	19:00	49.64
असीमित Unrestricted	13740	4782	173	400	19095	05.11.09	19:00	49.64
<b>पश्चिम क्षेत्र WESTERN REGION</b>								
पंजीकृत Registered	32290	-	-	-	32290	07.11.09	19:00	49.77
आंकलित Computed	31778	5450	400	-	37628	05.11.09	19:00	49.64
असीमित Unrestricted	31778	5450	400	1580	39208	05.11.09	19:00	49.64

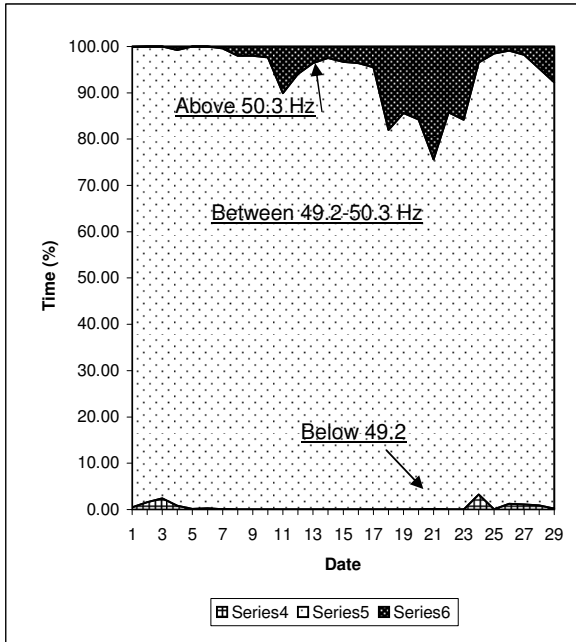
Note:

UNSCHLS= Unscheduled Load shedding  
 SCHLS = Scheduled Load shedding  
 FC = Frequency correction  
 Registered = Actual catered  
 Computed = Registered + UNSCHLS + FC  
 Unrestricted = Computed+SCHLS+Holiday staggering+Recess staggering  
 Power number = 3.5% of Registered demand

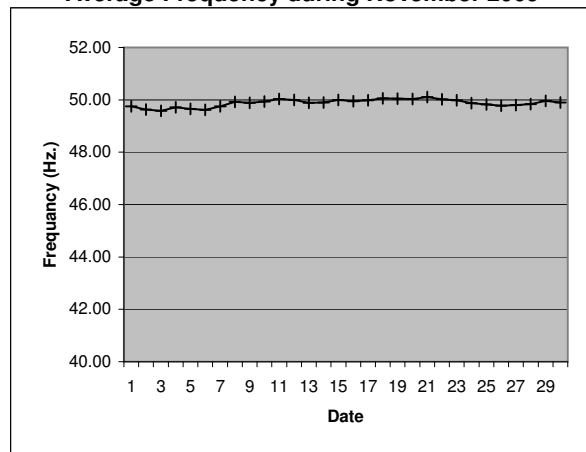
नवम्बर 2009 माह के दौरान आवृत्ति रेजीम

Frequency Regime during the month of November 2009

Date	Time (%)			Average Frequency (Hz)
	Below 49.2	Between 49.2-50.3	Above 50.3	
1	0.49	99.45	0.06	49.75
2	1.60	98.40	0.00	49.63
3	2.43	97.57	0.00	49.58
4	0.83	98.41	0.76	49.71
5	0.14	99.86	0.00	49.65
6	0.28	99.72	0.00	49.62
7	0.07	99.51	0.42	49.75
8	0.00	97.99	2.01	49.92
9	0.00	97.99	2.01	49.88
10	0.00	97.64	2.36	49.93
11	0.00	89.94	10.06	50.03
12	0.01	94.03	5.96	49.99
13	0.00	96.39	3.61	49.88
14	0.00	97.49	2.51	49.90
15	0.00	96.68	3.32	50.00
16	0.00	96.39	3.61	49.95
17	0.00	95.49	4.51	49.98
18	0.00	81.97	18.03	50.06
19	0.00	85.64	14.36	50.05
20	0.00	84.26	15.74	50.03
21	0.14	75.45	24.41	50.10
22	0.00	85.78	14.22	50.02
23	0.00	84.19	15.81	49.98
24	3.25	93.27	3.48	49.87
25	0.07	98.41	1.52	49.82
26	1.25	97.84	0.91	49.77
27	1.11	97.08	1.81	49.80
28	0.90	94.32	4.78	49.84
30	0.21	92.02	7.77	49.90



नवम्बर 2009 माह के दौरान औसत आवृत्ति  
Average Frequency during November 2009



**GENERATION SCHEMES UNDER CONSTRUCTION IN WESTERN REGION**

Sr.No.	Name of the power project	Unit No.	Capacity( MW)	commissionig schedule
<b>A</b>	<b><u>GUJARAT</u></b>			
1	Surat lignite expansion- GIPCL	1	125	Nov-09
		2	125	Aug-09
2	Sikka TPP extn	3	250	Jan-10
		4	250	May-10
3	Ukai TPS extn	6	490	Feb-11
4	Pipavav CCPP-GPCL & GSPC joint venture	block 1	350	Sep-10
		block 2	350	Mar-11
5	Mundra TPP ph-2 (Adani power )	3	330	Jan-10
		4	330	Apr-10
6	Mundra ultra mega TPP ( TATA)	1	800	Sep-11
		2	800	Sep-12
7	Hazira CCPP Expansion GSEG	GT+ST	350	Dec-10
	<b>OTHER PROJECTS</b>			
1	Gujarat lignite NLC&GPCL joint venture	Stage 1	1500	2011-12
		Stage 2	500	2012-13
2	Dhuvaran CCPP GSECL	Stage 3	360	2009-10
3	Pipavav TPP - Torrent power		1000	2011-12
4	Bhavnagar lignite TPP - Joint vent		500	Apr-11
5	Mundra STPP ( Adani power ltd)	1	660	Jan-11
		2	660	Jun-11
<b>B</b>	<b><u>MADHYA PRADESH</u></b>			
1	Amarkantak TPS	2	500	Apr-11
2	Satpura TPS ext.	10	250	Nov-10
		11	250	Mar-11
	<b>OTHER PROJECTS</b>			
1	Maheshwar HEP		400	2010-2011
2	Malwa TPP	1	500	Dec-10
<b>C</b>	<b><u>CHATTISGARH</u></b>			
1	Lanco Amarkantak PL	2	300	Aug-10
2	Marwa TPP	1	500	2011-12
		2	500	2011-12
3	Korba west -III TPP	1	500	Jun-12
	<b>OTHER PROJECTS</b>			
1	Bhaiyathan TPP Phase 1	1	500	Dec-12
		2	500	Aug-13
2	IFFCO	1	660	Aug-12



			660	Dec-12
D	<b>MAHARASHTRA</b>			
1	New Parli TPS Extn.	2	250	test syn. On 12.11.09
2	Paras TPS Extn	2	250	test syn. On 30.11.09
3	Khaperkheda TPS Extn.	1	500	Mar-10
4	Bhusawal Extn. TPP	1	500	May-10
		2	500	Sep-10
5	TrombayTPS extn. ( TATA )	8	250	Comisioned on 14.01.09
6	JSW Ratnagiri TPP ( JSW Ltd.)	1	300	2010-11
		2	300	2010-11
		3	300	2010-11
		4	300	2010-11
	<b>OTHER PROJECTS</b>			
1	Koradi TPS extn	1	800	Oct-12
2	Dhopawe TPS	1	800	Nov-11
		2	800	May-12
3	Utran CCPP	block 1	700	Feb-10
		block 2	340	May-10
4	Koradi TPS extn.( replacement)	1	800	Apr-12
5	Parli TPS ( replacement )	1	250	May-10
6	Paras TPS ( replacement )	1	250	May-10
7	Bhusawal TPS ( replacement )	1	250	May-10
8	Chandrapur TPS Extn	1	500	Dec-11
		2	500	May 212
E	<b>CENTRAL SECTOR</b>			
1	Sipat TPP	1	660	2010 -11
		2	660	2010-11
		3	660	2010-11
2	Korba STPS - III	7	500	Feb-10
3	Mauda TPP	1	500	2011-12
		2	500	2012-13

## Progress of Transmission Line under construction in Western Region

	Name of transmission line	Length in ckt km.	Total Locations( Nos)	Commiss- ioning Schedule	Remarks
<b>A</b>	<b>ગુજરાત Gujarat</b>				
	<b>I)400kV Lines</b>				
1	Mundra-Varsana D/C	166	225	,Feb - 10	work under progress.
2	Tappar(Varsana)-Hadala	299.88	458	,Feb - 10	work under progress.
3	Essar - Hadala	232	351	,Nov - 09	work under progress.
4	Lillo to kosamba from Asoj-ukai	64	88		Foundation work under progress
	<b>II)220kV Lines</b>				
1	Lilo at Mota of Ukai (t)-Vav-II ckt	9.6	16	Sep '08	Lilo point jumper work pending
2	Lilo of Mangrol - Mobha D/C line	218	358	9-Jun	ROW problem
3	Chornia- Bala D/C	59.12	96	9-Feb	Line charged on 29.04.09
4	Rajpur - Dudhrej D/C	19.16	40	Dec' 08	Work completed
5	Lilo at Dinod of Vav - Zagadia line	10.2	17	March' 09	Line charged on 08.07.09
6	Lilo at Chitrod of Deodar - Anjar line	2.1	0		Feeder bay work under progress
7	Lilo at Varsana of Shivilakha - Nanikhakhar	34	54	March' 09	ROW problem
8	Mundra-Varsana D/C	166	254	June' 09	Erection work under progress
9	LILO at Lakhani of Kansari-Tharad D/C	8		March' 10	Tender under acceptance
10	LILO at Botad of Kasor-Vartej line	38.8	58	Oct' 09	Agency finalised . Work to be started
11	Varsana - Morbi	214	351	Aug' 09	ROW problem
12	Viramgam - Salejada	124	185	Nov' 09	work under progress.
13	Lilo at Bhat of Viramgam - Salejada line	36	57	Nov' 09	work under progress.
14	Utran- Kosamba D/C	86	143	Oct' 09	R O W problem

	Name of transmission line	Length in ckt km.	Total Locations( Nos)	Commiss- ioning Schedule	Remarks
<b>B)</b>	<b>मध्य प्रदेश Madhya Pradesh</b>				
	<b>I) 400kV Lines</b>				
			NIL		
	<b>II) 220kV Lines</b>				
1	Lilo of 1st ckt DCDS200KV Gwalior- Malanpur at 400kv Gwalior PGCIL S/S	16.9	31	2009-10	Work under progress
2	Satna - Chhatapur line	140	518	2009-10	Work under progress
3	Amarkantak- Birsinghpur DCDS at 400kv s/s Sukha ( PGCIL )	300	547	2008-09	Work under progress
4	220KV Chhindwara- 400kv PGCIL Seoni D/C	140	227	2008-09	Line charged on 20.05.09
5	LILO of one ckt of 200kv Jabalpur - Itarsi at Piparia s/s	7.2	13	2009-10	Work almost complted. Line charged upto gantry of 220k Pipariya s/s
6	200kv Bhopal( 400kv)- Ashta for Ashta s/s	194	322	2009-10	work stopped due to contracters problem.
7	Sujalpur PGCIL(400KV)- 220KV Rajgarh Biaora line	134.4	227	2008-09	Work completed.
8	Jabalpur-Narsingpur part line for 400kv PGCIL Sukha	158	253	2009-10	Work in progress
9	Chhindwara- Betul	270	462	2009-10	Work in progress
10	Chegoan - Nimrani	220	370	2009-10	Work in progress
11	Lilo of one ckt of 200kv Satpura - Itarsi for Handia	220	273	2009-10	Work in progress . Line charged on 12.06.09
12	Rerouting of 220kv Makronia traction feeder through 220 kv Sagar	10.18	21	2008-09	Work completed.
13	LILO of 2nd ckt of 220 kv Pithampur-Ratlam line for 220kv Badnagar	20.29	35	2008-09	Work completed except termination of gantry

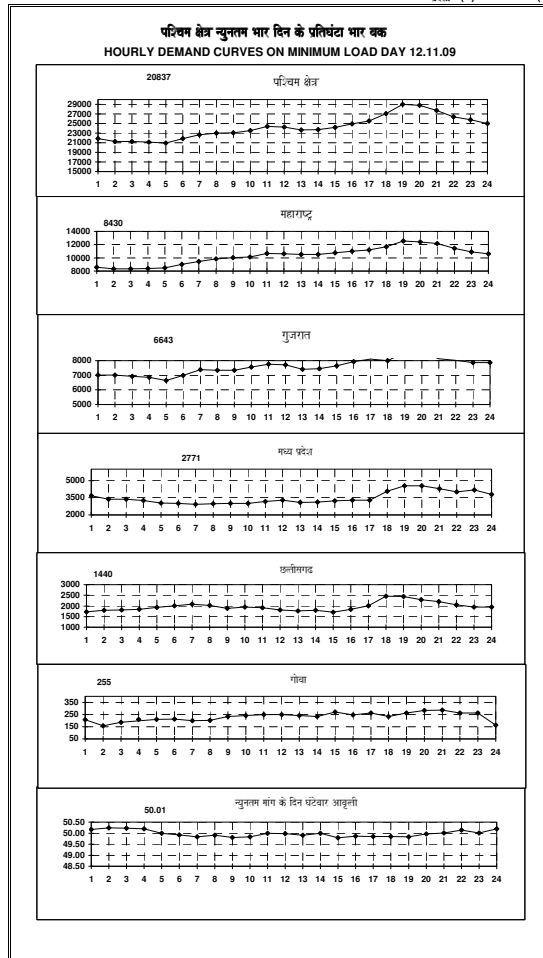
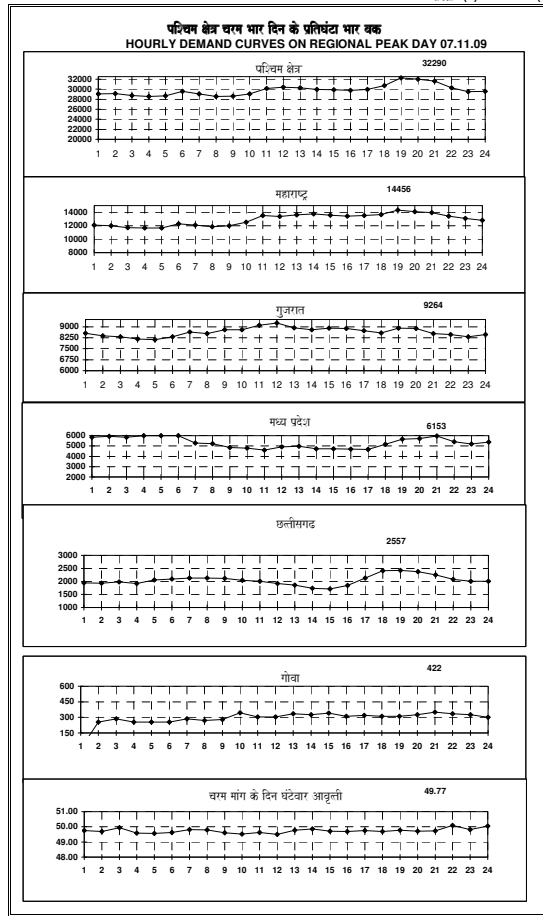
	<b>Name of transmission line</b>	<b><u>Length in ckt km.</u></b>	<b>Total Locations(Nos)</b>	<b>Commiss- ioning Schedule</b>	<b>Remarks</b>
14	LILO of 2nd ckt of 220kv Itarsi - Bhopal for 220kv Hosangabad	10.75	22	2009-10	Line charged on 13.06.09
15	Astha - Bercha line	45	158	2009-10	Work in progress
16	Maheshwar - Pithampur	108	189	2009-10	Forest approval received on 01.01.09
17	Maheshwar - Nimrani	54	89	2009-10	Work commenced.
18	Maheshwar - Rajgarh	230	403	2009-10	Forest approval received on 01.01.09
19	Lilo of one ckt of 220kv Bhopal- Bina for Vidisha new s/s	42.32	71	2009-10	Work stopped due to contractor problem . Notice served to contractor.
20	Dewas - Astha line	146	257	2009-10	Work in progress

<b>C)</b>	<b>छत्तिस गढ़ Chhatisgarh</b>				
	<b>I) 400kV Lines</b>				
1	LILO of 400 kV Korba(west)- Bhilai to Raipur DCDS	50		2009-10	Order placed . Work to be started shortly
2	400 kV Korba(West) – Khedamara DCDS	220		2009-10	Order placed . Work to be started shortly
	<b>II) 220kV Lines</b>				
1	Korba- Bishrampur Dess	153	509	2009-10	Case submitted for 2nd phase approval to AIG(FC)Min. of ENV&forest,New Delhi
2	Lilo of 220kv Bhatapara- Raipur ( PGCIL )at Doma	21.47	76	2009-10	Work under progress
3	Suhela- PGCIL Bhatapara DCDS line	13.53	45+2G	2009-10	Work under progress

	Name of transmission line	Length in	Total	Commiss-	Remarks
		Ckt. Km	Locations( Nos)	ioning Schedule	
4	I/C Raigarh -PGCIL Raigarh DCDS	10.39	37+6G	2008-09	Charged on 15.04.09
5	LILO of Korba- Sitara at Mopka DCDS	12.14	47	2009-10	Work in progress
6	Khedamara-Bemetara line +1No bay each at Khedamara and Bemetara	50.9	150	2009-10	Work in progress
7	Chhuri - Mopka DC DS line	90		2009-10	Order placed
8	I/C between new power house at Korba ( E )to proposed 220 kv Chhuri	30		2009-10	Work to be taken up
9	Diversion of 220kv line of Korba ( E )- Bhilai emanating from 200 mw ph - II to Korba ( E )	30		2009-10	Work to be taken up
10	Diversion of 220kv line of Korba - Bhatapara and 220k I/C in between Korba ( w ) and proposed 220 kv Cchuri s/susing section of Korba - Amarkantak- I & II	14		2009-10	Work to be taken up
11	Diversion of 220kv line of Korba -Amarkantakckt I & II to proposed 220/132 kv Chhuri s/s DCDS	4		2009-10	Work to be taken up
<b>D)</b>	<b>महाराष्ट्र Maharashtra</b>				
	<b>I) 400kV Lines</b>				
1	Dabhol-Nagothane ckt-II	134.445	338	Mar, 09	Work in progress
2	LILO of Bhusawal-Koradi Ckt-I at Akola S/S	80	101	2007-08	Work in progress

	<b>Name of transmission line</b>	<b>Length in ckt km.</b>	<b>Total Locations( Nos)</b>	<b>Commiss- ioning Schedule</b>	<b>Remarks</b>
	<b>II) 220kV Lines</b>				
1	LILO B'shwer Aurangabad for Bhenda S/S	37.095	117	2008-09	Tower material required
2	Evacuation of power from Parli ext.project	5.112	20	2008-09	
3	LILO of Nasik-Kalwa for Ghatghar S/S	99	84	2008-09	
4	Padegaon-Sawangi D/C	29.436	52	31.03.07	Line being commissioned soon
5	LILO on Malharpeth-Wankuswade for SataraMIDC	60	98	31.03.07	
6	Interconaction between Kolhapur-II-Kolhapur-III S/S	18.4	36	Sep' 09	ROW problem, Resurvey work under progress
7	LILO on Apta -Chinchwad for URSE S/S	22	37	2008-09	Work order placed
8	Kanhan-Umred S/C on D/C at Umred	50.106	164	2008-09	Foundation, Erection etc. in progress
9	LILO of Dhule-Dondaicha at Amalner D/C	80		2008-09	
10	Boisar(PGCIL 400/220kV)-Wada	55		2008-09	
11	Kolhapur—III-Mundhaltitta	40		2008-09	
12	LILO of Jejuri-Pandharpur at Temburni D/C	6		2008-09	
13	Kanhan-Umred S/C on D/C line	50.1	158	2008-09	Foundation Erection etc. in progress
14	Dhule-Dondaicha D/C at Amalner S/S	44	98	2008-09	Complete stringing material required

	<b>Name of transmission line</b>	<b>Length in ckt km.</b>	<b>Total Locations( Nos)</b>	<b>Commiss- ioning Schedule</b>	<b>Remarks</b>
15	LILO of Tarapur-Borivali for Boisar-II S/S	8	15	Sep' 09	Bloc date extended due to ROW problem
16	220kV line from PGCIL to 220kV Wada S/S	57	199	Dec' 09	Severe ROW problem, 220kV PGCIL .Nalasopara section charged temporarily on 26.01.08 through Boisar S/S
<b>E)</b>	<b>गोवा GOA</b>				
	Xeldem-Cuncolin D/C	20		2008-09	
<b>Sl.No</b>	<b>पावरग्रिड POWERGRID</b>				
	<b>765 kV</b>				
1	Seoni-Bina(to be initially charged at 400kV)	292		Nov-09	
	<b>400kV Lines</b>				
<b>A)</b>	<b>Sipat Trans system stage- II</b>	702	1244	2008-09	
1	Rourkela – Raigarh D/C			Mar-10	
2	Raigarh – Raipur D / C			Mar-10	
3	400 Kv Akola – Aurangaba D/C			Oct-09	
<b>B)</b>	<b>Western Region System Strengthening-I</b>			2008-09	
<b>C)</b>	<b>Sipat-II Suplimentary Trans system</b>	1173	-	2008-09	
1	D/C Wardha-Akola	368		Feb'09	
2	D/C Akola-Aurangabad	530		Mar'09	
3	Korba(NTPC)-Birsingpur(MPGENCO) D/C	454		July'10	
4	Birsingpur(MPGENCO)-Damoh(PGCIL)	508		July'10	
5	Birsingpur-Damoh-Bhopal				
	<b>220 kV Line</b>				





माह नवम्बर 2009 का क्षेत्रीय भार वक्र

Monthly Load Duration curve for the month of November 2009

Maximum Demand = 32290 MW

Minimum Demand = 20837 MW

