



पश्चिम क्षेत्रीय भार प्रेषण केंद्र कि
मई 2010 माह की प्रणाली प्रचालन रिपोर्ट

System Operation Report Of Western Region For the month of May2010

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 मई 2010 में पश्चिम क्षेत्र का निष्पादन डाटा

Performance of Western Regional Grid during MAY -2010

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. <49.5Hz (MUs)	Underdrawal at Freq. >50.2Hz (MUs)
1	गुजरात Gujarat	1245.13934	966.42	-278.7193	1.388	0.235
2	मध्य प्रदेश Madhya Pradesh	1254.04	1359.73	105.69	10.724	0.533
3	महाराष्ट्र Maharashtra	2403.56	2901.5	497.94	18.64	0.266
4	छत्तिसगढ Chhattisgarh	-310.531	-510.174	-199.643	3.04	2.58
5	गोवा Goa	179.54	201.31	21.77	3.91	0.353
6	दमन और दीव D&D	151.74	153.3	1.56	1.96	0.130
7	दादर नगर हवेली DNH	325.67	313.33	-12.34	2.04	0.56
8	पावरग्रिड एचवीडीसी PG(HVDC)	2.101	1.0185	-1.0825		
9	कुल TOTAL	5251	5386			

माह मई 2010 में अंतर क्षेत्र से पश्चिम क्षेत्र को विद्युत विनिमय

Inter-Regional Exchange of Power in Western Region during May-10

Description	Import (Mus)
ER (NTPC) to GUVNL	51.89
ER(NTPC) to MP TCL	28.24
ER(NTPC) TO CSEB	11.46
ER (NTPC) TO MSEDCL	76.55
ER(NTPC) TO DD	0.74
ER(NTPC) TO DNH	1.15
VAL ER to MSEB(LANCO)	13.98
DVC TO MPPTCL (LONG TERM OPEN ACCESS)	36.49
HIRAKUD TO CSEB	1.32
WBSEB TO MPSEB(NVVNL)	23.40
TISCO TO MSEB (TPTCL)	0.45
TPCH WBSEB TO MSEB (TPTCL)	10.57
ABSL PSEB TO RINFRA MSEB (INSTINCT)	5.82
WBSEB TO MSEB (NVVNL)	3.72
APCC TO RINFRA MSEB(RINFRA MSEB)	1.61
AP-NER TO TPC MSEB (TEXL)	0.30
TATA HALDIA(WB) TO TPC MSEB(TPTCL)	0.37
JK TO CSEB (NVVNL)	46.74
TNEB TO MPSEB(MPPL)	3.95
HIMANCHAL TO TORRENT_GUVNL(IEXL)	0.09
GOA(SR) TO GOA (WHEELING)	3.34
GOA(SR) TO GOA (BILATERAL)	1.42
NET IMPORT FROM ER	18.71
Description	Export(Mus)
INDIAN ENERGY EXCHANGE (WR TO NR)	47.46
POWER EXCHANGE OF INDIA (NR TO ER)	8.87
BPIL CSEB TO KSEB (GMRETL)	8.59
GPIL CSEB TO KSEB (GMRETL)	12.61
HFAL CSEB TO KSEB (GMRETL)	6.19
MSPPL CSEB TO KSEB (GMRETL)	3.13
RREL CSEB TO KSEB (GMRETL)	7.01
RSIPIL CSEB TO KSEB (GMRETL)	3.05
SNIL CSEB TO KSEB (GMRETL)	7.13
LAMKPL TO TNEB (PTC LTD)	76.63
TORRENT GUVNL TO UPPCL (PTC)	73.01
VIL GUVNL TO TNEB (NVVNL)	0.16
WELSPUN GUVNL TO TNEB (TPTCL)	4.26
APL TO VAL ER (LANCO)	1.14
MPSEB TO WBSEB (NVVNL)	8.46
MPSEB TO NDPL(DTL) (PTC)	8.76
CSEB TO NDPL(DTL) (PTC)	12.09
GUVNL TO TNEB (TPTCL)	3.46
MSPSPL CSEB TO UPPCL (KISPL)	0.58
TORRENT GUVNL TO TNEB (NVVNL)	65.29
TORRENT GUVNL TO TNEB (PTC LTD)	48.56
TORRENT GUVNL TO TNEB (PTC)	23.71
VIL CSEB TO TNEB (NVVNL)	5.93
CSEB TO BSES_RAJ (PTC LTD)	0.45
BALCO CSEB TO BSES_RAJ (LANCO)	11.76
JPL TO BSES (DTL)(JPL)	0.68

JPL TO BSES YM(DTL)(JPL)	94.89
JPL TO BSES_RAJ (BSES RAJ)	96.25
MPSEB TO BSES_RAJ (GMRETL)	3.75
MPSEB TO BSES_RAJ (BSES RAJ)	8.90
MPSEB TO BSES_RAJ (RETL)	16.62
MPSEB TO BSES YM(DTL)(GMRETL)	4.10
MPSEB TO BSES YM(DTL)(LANCO)	15.69
MIEL CSEB TO BSES RAJ (LANCO)	18.00
MIEL CSEB TO BSES YM (NVVNL)	16.11
MIELMH CSEB TO BSES YM (NVNL)	6.90
SEML CSEB TO UPPCL (KISPL)	0.83
SBMPL CSEB TO UPPCL (KISPL)	1.08
SEML CSEB TO BSES YM (DTL)	2.82
VGL CSEB TO UT CHANDIGARH (RPGPTCL)	6.93
VGL CSEB TO BSES YM (DTL) (NVVNL)	6.35
APL TO NDPL (DTL) (TPTCL)	26.30
HFAL CSEB TO UPPCL(KISPL)	0.49
HPSL CSEB TO UPPCL(KISPL)	1.78
JPLTO NDPL(TPTCL)	48.38
VIL CSEB TO CHANDIGARH (LANCO)	3.12
AIDCPL CSEB TO APPCC (LANCO)	3.75
ACPCL CSEB TO APPCC (LANCO)	6.82
BALCO CSEB TO UT-CHANDIGARH (LANCO)	10.57
BALCO CSEB TO APPCC (LANCO)	47.10
CSPL CSEB TO APPCC (LANCO)	12.28
GFL GUVNL TO APPCC (TPTCL)	12.91
MCPL MPSEB TO TNEB (NVVNL)	5.96
MSPSPL CSEB TO APPCC (LANCO)	2.56
MECBL CSEB TO APPCC (LANCO)	4.40
SKSIP CSEB TO APPCC (TPTCL)	1.92
SCPL CSEB TO CHANDIGARH (LANCO)	2.28
SPEL CSEB TO APPCC (LANCO)	2.36
TPC MSEB TO APPCC (TPCL)	28.20
CSEB TO BESCOM (PTC LTD)	70.29
GUVNNL TO BESOM (PTC LTD)	33.10
ACC(KYMORE) MPSEB TO INDIA CEMENT(TPTCL)	1.41
VFL MPSEB TO TNEB (TPTCL)	1.68
AFAL CSEB TO KSEB (GMRETL)	3.38
HPSL CSEB TO KSEB (GMREL)	2.86
JPAL CSEB TO KSEB (GMRETL)	11.20
JBIL CSEB TO UPPCL (KISPL)	0.43
APL TO TNEB (AEL)	23.82
INDORAMA MSEB TO TNEB (TPTCL)	1.81
JPL TO TNEB (NVVNL)	17.07
JPL TO TNEB (PTC LTD)	4.96
TPC MSEB TO TNEB (TPTCL)	7.61
WELSPUN GUVNL TO NDPL(DTL) (SCL)	9.99
IIPL MSEB TO NDPL(DTL) (IPTPL)	12.71
GRSPL CSEB TO UPPCL(KISPL)	0.65
SSPL CSEB TO KSEB (RPGPTCL)	6.87
TPC MSEB TO NDPL(DTL) (TPTCL)	0.32
NET EXPORT TO SR	393.37
NET EXPORT TO NR	771.15

आवृत्ति रूपरेखा

a. Frequency Profile

MAXIMUM FREQUENCY(Inst.):	50.8 HZ
अधिकतम आवृत्ती एकिकृत :	
Minimum frequency(Inst)	48.76 HZ
न्यूनतम आवृत्ती एकिकृत :	
Average frequency	49.73 HZ
औसत आवृत्ती	

b. आवृत्ती वितरण प्रतिशत में Frequency distribution in %

HZ	<48.8	<48.8 - 49.2	49.2 -49.5	49.5-50.0	50.0-51.0	>51.0
%	0.02	2.44	15.64	68.7	13.2	0.00

5. मई 2010 माह में विद्युत पूर्ति स्थिति Power supply position during May 2010

अप्रतिबंधित चरम मांग Unrestricted peak demand	: 39260	मेगा वॉट MW on 10.05.2010
ऊर्जा की आवश्यकता Energy Requirement	: 25705	मेगा युनिट MUs
चरम मांग मेट Peak Demand met	: 32472	मेगा वॉट MW on 10.05.2010
ऊर्जा की उपलब्धता Energy Availability	: 21785	मेगा युनिट MUs

दिनांक 31 | 05 | 2010 को राज्यानुसार संस्थापित क्षमता

**INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS
ON 31.05.2010**

(All fig.
in MW)

State	Ownership	Hydro	Coal	Gas	Nuclear	Total	Diesel	RES	Total
Gujarat	State	772.00	4440.00	892.72	0.00	6104.72	17.28	29.90	6151.90
	Private	0.00	1310.00	2577.50	0.00	3887.50	0.20	1793.39	5681.09
	Central(firm allo)	0.00	1508.89	424.27	559.32	2492.48	0.00	0.00	2492.48
	Total	772.00	7258.89	3894.49	559.32	12484.70	17.48	1823.29	14325.47
Madhya Pradesh	State	1703.66	2807.50	0.00	0.00	4511.16	0.00	11.76	4522.92
	Private	0.00	0.00	0.00	0.00	0.00	0.00	232.60	232.60
	Central(firm allo)	1520.00	1474.60	257.18	273.24	3525.02	0.00	0.00	3525.02
	Total	3223.66	4282.10	257.18	273.24	8036.18	0.00	244.36	8280.54
Chhattisgarh	State	120.00	2060.00	0.00	0.00	2180.00	0.00	19.05	2199.05
	Private	0.00	1600.00	0.00	0.00	1600.00	0.00	199.90	1799.90
	Central(firm allo)	0.00	723.00	0.00	47.52	770.52	0.00	0.00	770.52
	Total	120.00	4383.00	0.00	47.52	4550.52	0.00	218.95	4769.47
Maharashtra	State	2884.84	7295.00	912.00	0.00	11091.84	0.00	250.73	11342.57
	Private	447.00	1900.00	180.00	0.00	2527.00	0.00	2282.55	4809.55
	Central(firm allo)	0.00	2003.05	2623.93	690.14	5317.12	0.00	0.00	5317.12
	Total	3331.84	11198.05	3715.93	690.14	18935.96	0.00	2533.28	21469.24
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	277.03	0.00	25.80	302.83	0.00	0.00	302.83
	Total	0.00	277.03	48.00	25.80	350.83	0.00	30.05	380.88
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	19.04	4.20	7.38	30.62	0.00	0.00	30.62
	Total	0.00	19.04	4.20	7.38	30.62	0.00	0.00	30.62
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	22.04	27.10	8.46	57.60	0.00	0.00	57.60
	Total	0.00	21.00	27.10	8.46	57.60	0.00	0.00	57.60
WR	State	5480.50	16602.50	1804.72	0.00	23887.72	17.28	311.49	24216.49
	Private	447.00	4810.00	2805.50	0.00	8062.50	0.20	4538.44	12601.14
	Central(firm allo)*	1520.00	6978.00	3533.59	1840.00	13871.59	0.00	0.00	13871.59
	Unallocated	0.00	950.35	197.59	228.00	1375.94	0.00	0.00	1375.94
	Total	7447.50	28390.50	8143.81	1840.00	45821.81	17.48	4849.93	50689

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

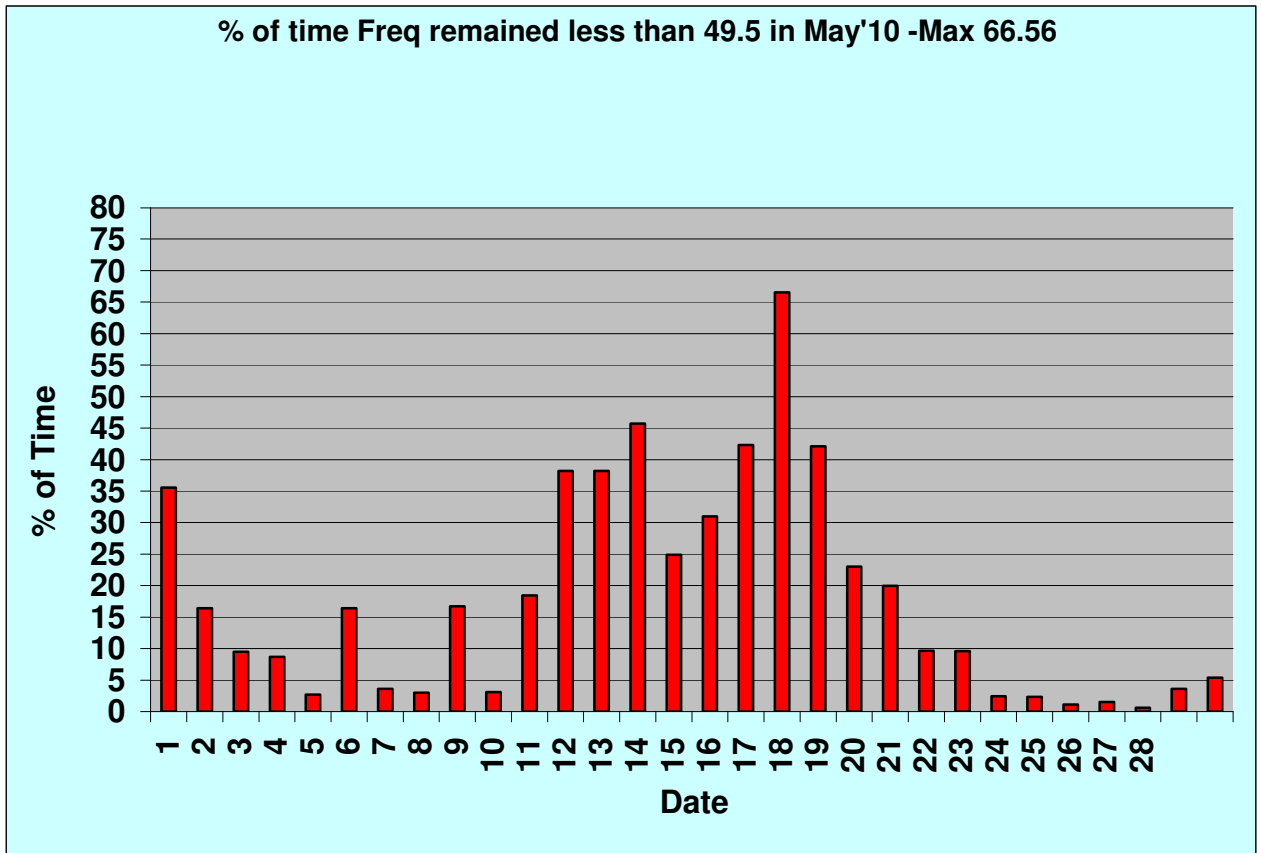
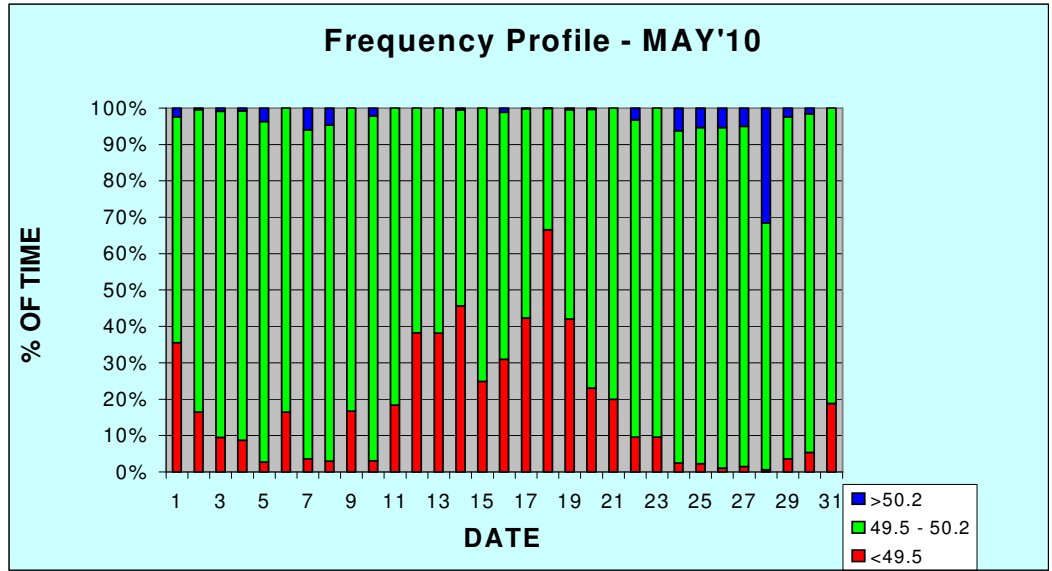
**I) मई 2010 माह के दौरान पश्चिम क्षेत्रीय ग्रिड की प्रमुख विशेषताएं ।
Salient Features Of Western Regional Grid For The Month Of May.2010**

1. स्थापित क्षमता Installed Capacity (MW)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	सेंट्रल सेक्टर Central Sector	सेंट्रल सेक्टर Central unlocated	पश्चिम क्षेत्र Western Region
मई May'09	9910	4750	3214	15030	78	12131	1234	46347
मई May'10	11833	4756	3999	16152	78	12498	1375	50689
वृद्धि प्रतिशतमें % increase	19.40	0.13	24.42	7.47	0.00	3.03	13.64	9.37
2. उर्जा Energy (Gross)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	पश्चिम क्षेत्र Western Region
असिमित आवश्यकता Unrestricted requirement (MUs)								
मई May'09	6081	3350	1632	10843	211	134	247	22496
डडमई May'10	6965	3820	1659	12541	236	110	323	25705
असिमित आवश्यकता Unrestricted Requirement MUs/day								
मई May'09	196.16	108.05	52.63	349.76	6.79	4.31	7.98	725.69
मई May'10	224.67	123.23	53.53	404.55	7.61	3.55	10.41	829.20
ऊर्जा उपलब्धता Energy availability (MUs)								
मई May'09	5889	2804	1622	9241	208	134	247	20146
मई May'10	6448	3035	1650	9956	215	112	323	21785
ऊर्जा उपलब्धता Energy availability MUs/day								
मई May'09	189.97	90.45	52.32	298.10	6.71	4.32	7.97	649.87
मई May'10	208.00	97.90	53.23	321.16	6.94	3.61	10.42	702.74
3. मांग Demand	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	पश्चिम क्षेत्र Western Region
असिमित मांग Unrestricted demand (MW)								
मई May'09	8741	6257	2757	18178	361	195	396	35992
मई May'10	10065	6548	2708	19435	427	250	480	39260
प्रतिशत in%	15.15	4.65	-1.78	6.91	18.28	28.21	21.21	9.08
चरम मांग Peak Demand met (MW)								
मई May'09	8416	5084	2666	14011	321	195	396	30273
मई May'10	9157	5312	2613	14883	323	219	480	32472
प्रतिशत in%	8.80	4.48	-1.99	6.22	0.62	12.31	21.21	7.26

क्षमतामें कमी Capacity shortage	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	पश्चिम क्षेत्र Western Region
अधिशेष (-)/ surplus (+) (MW)								
मई May'09	-325	-1173	-91	-4167	-40.00	0.00	0.00	-5719
प्रतिशत in%	-3.72	-18.75	-3.30	-22.92	-11.08	0.00	0.00	-15.89
मई May'10	-908	-1236	-95	-4552	- 104.00	-31.00	0.00	-6788
प्रतिशत in%	-9.02	-18.88	-3.51	-23.42	-24.36	-12.40	0.00	-17.29
ऊर्जा में कमी Energy shortage(-)/ अधिशेष Surplus (+) (MUs)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	पश्चिम क्षेत्र Western Region
मई May'09	-192.03	-545.50	-9.60	- 1601.66	-2.60	0.45	-0.32	-2350.33
प्रतिशत in%	-3.16	-16.29	-0.59	-14.77	-1.23	0.34	-0.13	-10.45
मई May'10	-516.68	-785.27	-9.45	- 2584.90	-20.82	2.03	0.40	-3920.26
प्रतिशत in%	-7.42	-20.56	-0.57	-20.61	-8.83	1.84	0.12	-15.25

FREQUENCY PROFILE – MAY,2010

Date	<49.5	49.5 - 50.2	>50.2
1	35.58	62	2.42
2	16.43	83.15	0.42
3	9.5	89.6	0.9
4	8.67	90.57	0.76
5	2.7	93.56	3.74
6	16.4	83.6	0
7	3.63	90.34	6.03
8	2.98	92.37	4.65
9	16.7	83.3	0
10	3.1	94.7	2.2
11	18.44	81.56	0
12	38.21	61.79	0
13	38.2	61.8	0
14	45.69	53.82	0.49
15	24.89	75.11	0
16	31	67.82	1.18
17	42.3	57.56	0.14
18	66.56	33.37	0.07
19	42.09	57.49	0.42
20	23.02	76.63	0.35
21	19.97	80.03	0
22	9.64	87.1	3.26
23	9.6	90.4	0
24	2.43	91.33	6.24
25	2.36	92.23	5.41
26	1.11	93.55	5.34
27	1.53	93.41	5.06
28	0.63	67.82	31.55
29	3.6	93.97	2.43
30	5.4	93	1.6
31	18.86	81.14	0
AVG	18.10	79.17	2.73
MAX	66.56	94.7	31.55



माह मई 10 में ग्रिड के प्रमुख उप केन्द्र का विद्युतदाब रूपरेखा

Voltage Profile of major Sub-Stations for the month of
MAY-2010

क्षेत्र Region	सब स्टेशनका नाम Sub station name	अमकितमुल्य विद्युतदाब Nominal Voltage(KV)	विद्युतदाब स्थिती (प्रतिशत समय) Percentage of time when voltage was			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	400.00	0.00	4.29	95.71	436.00	396.00	
	असोज Asoj	400.00	0.00	0.00	100.00	425.00	406.00	
	कराड Karad	400.00	0.00	64.79	35.21	428.00	383.00	
	कासोर Kasor	400.00	0.00	36.41	63.59	425.00	401.00	
	इन्दौर Indore	400.00	0.00	66.83	33.18	423.00	393.00	
	इटारसी Itarsi	400.00	0.00	11.95	88.05	430.00	403.00	
	जेटपुर Jetpur	400.00	0.00	69.22	30.77	423.00	387.00	
	भिलाई Bhilai	400.00	0.00	68.48	31.52	419.00	392.00	
	बिना Bina	400.00	0.07	61.02	38.91	430.00	388.00	
	ग्वालियर Gwalior	400.00	2.44	75.73	21.83	434.00	374.00	

माह मई 2010 का अंतर राज्य में ऊर्जा पारेषण

A) Inter-Regional Transfer Of Energy For The Month Of May - 2010

1	IMPORT	Mus
	Total IMPORT FROM NR	22.049
	Total IMPORT FROM SR	8.239
	Total IMPORT FROM ER	111.578
2	EXPORT	Mus
	Total EXPORT TO NR	793.2
	Total EXPORT TO SR	401.605
	Total EXPORT TO ER	92.844

Total Export to other region from WR - 1145.73 Mus

B) INTRA- REGIONAL ENERGY EXCHANGES(In Mus)

MUNDRA APL TO GUJARAT(LTOA)	287.939
NSPCL CSEB TO DD (BILATERAL)	44.915
NSPCL CSEB TO DD (DD)	14.151
NSPCL CSEB TO DNH (BILATERAL)	64.221
NSPCL CSEB TO DNH (DNH)	20.579
JPL TO MPSEB(MPSEB)	31
BALCO CSEB TO MSEB (NVVNL)	34.666
BALCO CSEB TO MSEB (GMRETL)	12.184
CIAL CSEB TO MSEB (GMRETL)	10.902
SKSIP CSEB TO MSEB (TPTCL)	9.667
ORRENT GUVN TO MSEB (NVVNL)	36.396
AFAL CSEB TO RINFRA MSEB(SCL)	0.245

CSEB TO RINFRA MSEB(PTC LTD)	12.45
GSPL CSEB TO RINFRA MSEB(INSTINCT)	0.891
GSPL CSEB TO RINFRA MSEB(SCL)	1.36
HFAL CSEB TO RINFRA MSEB(SCL)	1.699
HPSL CSEB TO RINFRA MSEB(SCL)	4.076
JPL TO RINFRA MSEB(JPL)	117.8
JPL CSEB TO RINFRA MSEB(SCL)	0.922
JPL CSEB TO RINFRA MSEB(SCL)	0.877
JPL TO RINFRA MSEB (JPL)	54.325
MPSEB TO RINFRA MSEB (LANCO)	89.28
MPSEB TO RINFRA MSEB (RETL)	25.633
MPSEB TO RINFRA MSEB (RINFRA MSEB)	0.02574
MSPPL CSEB TO RINFRA MSEB(SCL)	0.342
MSPPL CSEB TO RINFRA MSEB(SCL)	1.043
REALISPAT TO RINFRA MSEB(INSTINCT)	6.441
SBMPL CSEB TO RINFRA MSEB(SCL)	2.407

(C) Exchanges through Indian Energy Exchange (All figures are in Mus)

(Figures in bracket are export)

TOTAL	GUVNL	MPPTCL	CSEB	MSEDCL	GOA	DD	DNH	JINDAL POWER
(84.545)	(100,169)	(10.940)	(63.828)	101.814	(0.347)	0.123	11.891	(23.088)

(D) Exchanges through Power exchange India ltd. (All figures are in Mus)

(Figures in bracket are export)

TOTAL	GUVNL	MPPTCL	CSEB	MSEDCL	GOA	DD	DNH	JINDAL POWER
(31.491)	(50.721)	1.790	(5.909)	23.348	0	0	0	0

AUFLS OPERATION DURING MAY- 2010

In the month of May- 2010 , frequency remained below 49.2 Hz for 2.37 % of the time AUFLS at stage-I was required to operate 16 times as frequency touched 48.8 Hz. . But in Maharashtra UF relay operation occurred on 11 occasions, in Gujarat UF relay operation occurred on 10 occasions, in Madhya Pradesh UF relay operation occurred on 12 occasions and in Chhattisgarh UF relay operation occurred on 2 occasions during the month.

The details of operation of AUFLS are given below.

State	Dates on which frequency relays at 48.8 Hz operated	Actual load relief obtained (MW) (Range)	Load relief required as per the scheme (MW)	Dates on which U/F relays did not operate
Maharashtra	4th ,13th,15th,18th,19th,21st	58-181	550	28th
Gujarat	4th,13th,15th,18th,19th,21st,28th	18-46	220	NIL
Madhya Pradesh	4th ,13th,15th,18th,19th	72.5-195.2	152	21st&28th
CSEB	15th	0-2.5	38	NIL

REMARKS : The AUFLS operation is not consistent. During certain times of the day, load relief is very meager and not adequate to act as a defence mechanism against major disturbances. The load relief obtained from Maharashtra , Gujarat and Madhya Pradesh are inadequate.

PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
A	Gujarat			
	I)400kV Lines			
1	Mundra-Varsana D/C	166	Jul'10	work under progress,ROW Problems
2	Tappar(Varsana)-Hadala	318	July'10	work under progress,ROW Problems
3	Essar - Hadala	226	July'10	work under progress,ROW Problems
4	LILO to kosamba from Asoj-ukai	64	May'10	Work under progress
5	400 kV Adani-Zerda Line no.2	661.12	Apr'11	Kept in abeyance as M/s APL backed out from PPA
6	400 kV Adani-Zerda Line no.1	661.12		LOI issued on 23.09.09, Firm has regretted the LOI
	II)220kV Lines			
1	LILO at Chitrod of Deodar - Anjar line	2.1	March'10	Line is ready , Control panel rectification work under progress
2	LILO at Varsana of Shivlakha - Nanikhakhar	34	Jan'10	Work under progress, ROW problem
3	LILO at Botad of Kasor- Vartej line	38.8	March'10	Foundation work under progress
4	Varsana - Morbi	214	March'10	Work under progress, ROW problem
5	Viramgam - Salejada D/C	118	March'10	work under progress.
6	Lilo at Bhat of Viramgam - Salejada line	36	March'10	work under progress.
7	220 KV D/C Utran- Kosamba s/s from Vav- Zagadia line-I	86	Mar'10	work under progress, ROW Problem
8	220 KV D/C Utran- Kosamba s/s from Vav- Zagadia line-II	86	June'10	work under progress, ROW Problem
9	220 KV D/C GSEG(Hazira)-Kosamba line	124	Jul'10	Work under progress
10	220 KV D/C GPPC- Dhokadva line	100	Aug'10	Work under progress
11	LILO of one circuit of 220 KV D/C Savarkundla-Otha line at GPPC	93	Aug'10	Work under progress

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
12	LILO of 220 KV Morbi-Halvad line 1 at 400 KV Bhimasar (PG) S/S	215	Jan'11	Check survey work under progress
13	LILO of 220 KV Morbi-Halvad line 2 at 400 KV Bhimasar (PG) S/S	210	Jan'11	Check survey work under progress
14	220 KV GSEG(Hazira)-Mota line	111.06	Oct'10	Check survey work under progress
15	220 KV D/C Nakhatrana-Varsana line	190	Dec'10	Check survey work under progress
B)	Madhya Pradesh			
	I) 400kV Lines			
	II) 220kV Lines			
1	LILO of 1st ckt DCDS200KV Gwalior-Malanpur at 400kv Gwalior PGCIL S/S	16.4	2009-10	Work restarted and is nearing completion
2	Satna - Chhatapur line	156.32	2010-11	Work under progress
3	Amarkantak- Birsinghpur DCDS at 400kv s/s Sukha (PGCIL)	331.8	2010-11	Work under progress
4	Jabalpur-Narsingpur part line for 400kv PGCIL Sukha	153.14	2009-10	Work almost completed, charging being arranged
5	Chhindwara- Betul	270	2009-10	Work almost completed, railway crossing work balance
6	Chegoan - Nimrani	205	2010-11	Work almost completed, charging being arranged
7	Astha - Bercha line	45	2009-10	Work in progress
8	Maheshwar - Pithampur	108	2010-11	Forest approval received on 01.01.09, work in progress
9	Maheshwar - Nimrani	52.1	2010-11	Work almost completed, charging being arranged
10	Maheshwar - Rajgarh	230	2011-12	Forest approval not yet received.work not commenced
11	LILO of one ckt of 220kv Bhopal- Bina for Vidisha new s/s	42.32	2009-10	Work organised through other agency & is in progress
12	Dewas - Astha line	144	2010-11	Work in progress

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
C)	Chhatisgarh			
	I) 400kV Lines			
1	LILO of 400 kV Korba(west)- Bhilai to Raipur DCDS	25	Dec'10	Profile of 19.937 km has been approved.
2	400 kV Korba(West) – Khedamara DCDS	224	Dec'11	Work under progress
3	400 KV DCDS Marwa TPP-Proposed 400 KV s/s Raipur	150	Mar'12	Order to be placed in Mar'10
4	LILO of 400 KV Korba(W)Bhilai(Khedmara) line to Marwa TPP	65	Mar'12	Preliminary survey and tender preparation under progress
	II) 220kV Lines			
1	Korba- Bishrampur DCSS	153	2009-10	Payment for forest compensation ha been made, work will start after second phase approval of forest.
2	LILO of 220kv Bhatapara- Raipur (PGCIL)at Doma	21.47	Apr'10	Work under progress
3	LILO of Korba- Sitara at Mopka DCDS	12.14	Mar'10	Work in progress
4	220 KV DCSS Kheedmara - 220KV s/s Bemtara + 1 no. bay at Khedmara & 1 no. at Betemara	50.9	Mar'10	Work under progress
5	Chhuri - Mopka DC DS line	90	May'11	Profile of 34.84 km has been approved
6	I/C between new power house at Korba (E)to proposed 220 kv Chhuri	30	2009-10	Work to be taken up
7	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
8	Diversion of 220kv line of Korba - Bhatapara and 220k I/C in between Korba (w) and proposed 220 kv Chhuri s/s using section of Korba - Amarkantak- I & II	14	2009-10	Work to be taken up
9	Diversion of 220 KV Korba-Amarkantak Ckt-I & II to proposed 200/132 KV Chhuri s/s DCSS	4	2009-10	Land aaquisition under progress

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
D)	Maharashtra			
	I) 400kV Lines			
1	Dabhol-Nagothane ckt-II	135.56	Dec'09	Work in progress, Diversion of route at Vadvalli approved.
2	Bhusawal-II -A'rangabad (location 1-270)	190	June'10	work in progress
3	Bhusawal -A'rangabad (location 270-Waluj)	88.02	Mar'10	work in progress
4	Jaigad-New Koyna D/C	114	Mar'10	work in progress
5	Jaigad-New Karad D/C	224	June'10	work in progress
6	Bhusawal-II to existing 400kv Khadka	15	Mar'10	work in progress
7	New Khaerkheda- Koradi S/C	5	July'09	Work in progress
8	400 KV D/C line from Chandrapur-Wardha via Warora	123	Apr'11	Work in progress
9	400 KV line from Koradi TPS-Wardha s/s	120	Apr'11	Work in progress
	II) 220kV Lines			
1	Lilo of Tarapur-Borivali for 220KV Boisar-II s/s	8	Mar'10	Court case at loc. No 11
2	220 KV linefrom PGCIL to 220KV Wardha s/s	57	Mar'10	work held up due to court case .
3	Lilo of Nasik-Kalwa ckt. 3&4 for Bapgaon s/s	3	Mar'10	work held up due to local prob.
4	Nagothane-Wadkhal D/C	30	Mar'10	Extension of contract is under process at C.O
5	Lilo of Padge- Kalwa at Temghar s/s	1.5	June'09	work is obstructed by locals & anti social elements.
6	Lilo of 220 KV Mulund- Borivali of XLPE underground cable for Bhandup	3	Dec'09	Permission for U/G cable duct is awaited from MCGM
7	220 KV D/C from Phursungi s/s -400 KV Jejuri s/s	62	Mar'10	Work under progress
8	Shifting of Telco Bhosari interconnectig bay at Chinchwad s/s	0.5	Dec'09	Work stopped as s/s gantry not erected. & 22 KV line shifting is to be done by MSEDCL.

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
9	220 KV D/C line M/C towers LILO to 220 KV Bhosari-Chinchwad line at 400 KV chakan s/s	18	Dec'09	Permission for line through MIDC for 10 mts corridor is asked to MIDC authorities . MIDC not ready to give 10 mt corridor
10	220 KV Lilo on 2nd circuit Kohlapur-Phonda line 220 KV Mumewadi	2	May'09	Work in progress
11	220 KV Lilo on 2nd circuit Kohlapur-Phonda line 220 KV Halkarni	20	Oct'09	Work in progress
12	Chitegaon-Shendra D/C	43.1	Mar'10	Excavation work in progress
13	220 KV lilo on Pusad-Girawali for Hingoli	44	Sep'09	Work in progress
14	Reorientation of Padegaon I&II, Bableshwar	8	Dec'09	Work in progress
15	Beed - Patoda D/C	45	June'10	Work in progress
16	Parli TPS-Nanded M/C line (Waghala)	90.3	June'10	Work in progress
17	Jaina- Chikhali D/C	150	Dec'10	Work in progress
18	220kv D/C on D/C tower from 400kv Bhusawal-II to 220kv Amalner	182	Mar'10	Work in progress
19	220kv D/C line on M/C tower from new Bhusawal s/s to existing 400kv Khadka	20	Nov'09	Work in progress
20	220 KV D/C on D/C Tower from Jeur-Paranda	30	June'10	Check survey in progress, work not started.
21	220 KV Koradi-Butibori II D/C line on M/C tower at 400 KV Koradi s/s	53	Nov'10	Work in progress
22	220 KV Paras-Balapur D/C on M/C	5.61	Mar'10	Work in progress
23	LILO on 220 KV Chandrapur-Warora for 220 KV Wani	46	Dec'09	Work in progress
24	220 kV New Khaparkheda-Khaperkheda s/s	3.5	Dec'09	Work in progress
Sl.No	POWERGRID			
	765 kV & 400kv			
A)	Sipat II supplementary Trans system			

W R Strengthening scheme-II				
For Absorbing import in Eastern and Central part of WR				
1	765 kv 2nd s/c Seoni(PG)-Wardha(PG)	261	Sep'11	Stringing commenced from April'10
2	400 KVWardha(PG)-Parli(PG) D/C(quad.)	674	Dec'10	ROW problem
3	400 KVRaipur(PG) - Wardha(PG) D/C	741	Dec'10	Work affected due to ROW problem
4	400 KV Bhadravati(PG)-Parli(PG) D/C	776	Nov'10	Work affected due to ROW problem
5	400 KVParli (MSEB)-Parli (PG) D/C	14	Nov'10	Engg & survey under progress
For Regional strengthening in southern Maharashtra to be implemented through IPTC Route by WR transmission (Mah) Pvt. Ltd.				
6	400 KV Parli (PG)-Pune D/C	646	June'11	Objection from KEIPL SEZ on the line routing near Pune end.
7	400 KV Pune (PG)-A'bad(MSEB) D/C	450	Apr'11	Objection from KEIPL SEZ on the line routing near Pune end.
8	400 KV Parli(PG)-Pandharpur/Solapur D/C	272	May'11	WRTPL taken up the matter with MSETCL for clearance of crossing this line over existing line of MSETCL
9	400 KV Solapur(PG)-Kolhapur(MSEB)	438	May'11	All cases submitted for forest clearance
10	LILO of L'khand(MSEB)-Kalwa(MSEB) at Pune(PG) D/C	2.4	Feb'10	WRTPL taken up the matter with MSETCL for clearance of LILOing of this line
11	Lilo of Solapur(MSEB)-Karad(MSEB) D/C at Solapur (PG)	52	May'10	WRTPL taken up the matter with MSETCL for clearance of LILOing of this line
For Regional strengthening in Gujarat to be implemented through IPTC Route by WR transmission (Guj) Pvt. Ltd.				
12	400 KV Rajgarh(PG)-Karamsad(GEB) D/C	468	Mar'11	Forest clearance awaited
13	400 KV Limdi(GEB)-Ranchodpura(GEB) D/C	206	Dec'10	
14	400 KV Ranchodpura(GEB)-Zerda(GEB) D/C	280	Dec'10	
For Regional strengthening in Northern Madhya Pradesh				
15	400 KV Korba(NTPC)-Birsinghpur(MPSEB) D/C	453	Dec'10	Ist stage forest clearance received
16	400 KV Birsinghpur-Damoh (PG) D/C	452	Oct'10	
17	400 KV Damoh(PG)-Bhopal(MPSEB) D/C	430	Mar'10	Erection completed, testing under progress
Transmission system associated with Gandhar-II(GBPP)				
18	400 KV Gandhar-Kawas D/C	190	*	* 33 month from investment approval or from tying up date of FSA by NTPC whichever is later
19	400 KV Gandhar-Rajkot D/C	600	*	
20	400 KV Lilo of Bina- Nagda D/C at Shujalpur	60	*	

WR strengthening system-V				
21	400 KV Vapi- Navi Mumbai D/C	258	Mar'11	Severe ROW problem
22	Vapi- Khadoli 220kv D/C	56	Apr'10	Severe ROW problem
23	Lilo of L'khand-Kalwa S/C at Navi Mumbai	10	Mar'11	Severe ROW problem
WR strengthening system-VI				
24	400 KV Dehgam Pirana D/C	92	June'10	
WR strengthening system-IX				
25	LILO of 400 KV Bina-Nagda Line at Sujalpur	60	Jan'11	Award placed in Nov'09
WR strengthening system-X				
26	LILO of 765 KV Sipat-Seoni line near Sipat at Bilaspur	14	Feb'12	Tendering under progress connected with Bilaspur Pooling station
WR strengthening system-XI				
27	LILO of 765 KV 2nd Sipat-Seoni line near Sipat at Bilaspur	24	Feb'12	Tendering under progress connected with Bilaspur Pooling station
Transmission system associated with Korba-III				
28	400 KV D/C Korba STPS-Raipur line	430	June'11	Effort is being made to complete the line earlier

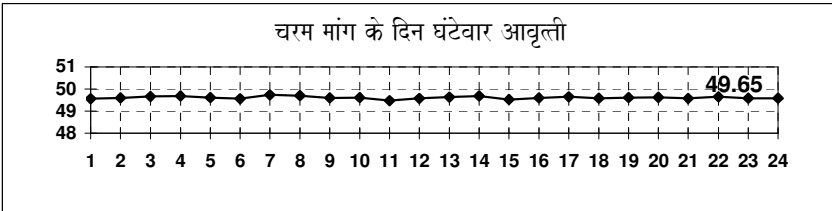
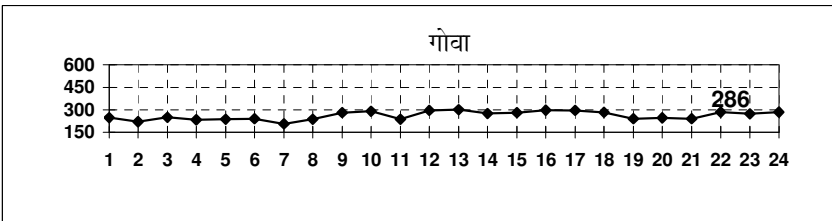
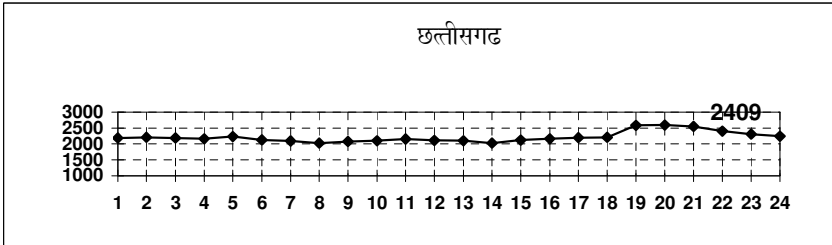
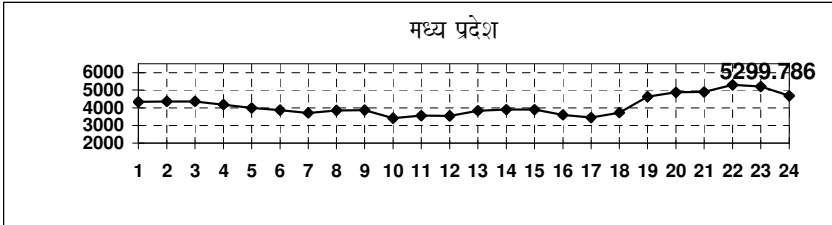
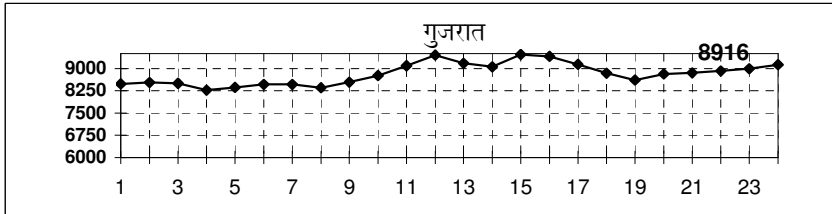
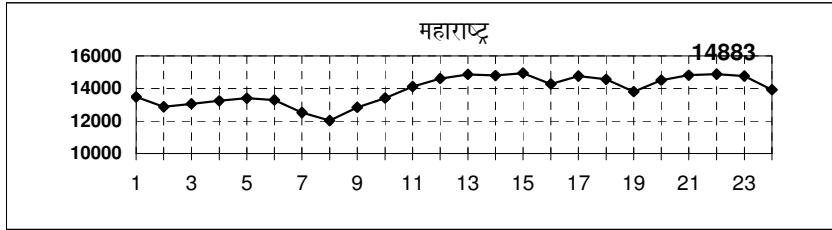
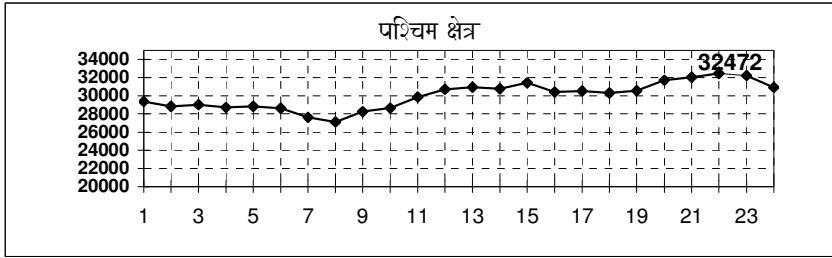
Transmission system associated with Mundra UMPP				
29	400 KV D/C Mundra-Limbdi	626	Dec'11	Wild life sanctuary portion clearance awaited
30	400 KV D/C Mundra-Bachchau-ranchodpur	764	Feb'11	Wild life sanctuary portion clearance awaited
31	400 KV D/C Mundra-Bachchau-Jetpur	666	Mar'12	Wild life sanctuary portion clearance awaited
32	400 KV D/C Gandhar-Navsari line	212	Dec'11	River crossing
33	400 KV D/C Navsari-Mumbai	408	Oct'12	01 out of 02 package awarded.
34	400 KV D/C Wardha-Aurangabad	800	Oct'12	Tendering under progress
35	400 KV D/C Aurangabad-Auranagabad(MSETCL)line	60	Oct'12	Tendering under progress
36	LILO of both ckt of Kawas-Navsari 220 kV D/C at Navsari	100	Oct'12	Tendering under progress
Transmission system associated with Sasan UMPP				
37	765 KV Sasan-Satna Line-I	257	Dec'12	
38	765 KV Sasan-Satna Line-II	260	Dec'12	Tower package awarded
39	765 KV Satna-Bina Line I	279	Dec'12	
40	765 KV Satna-Bina Line II	274	Dec'12	
41	765 KV Sasaram-Fatehpur line II	352	Dec'12	Tendering under progress
42	765 KV Agra-Fatehpur line	340	Dec'12	Tendering under progress
43	400 KV Bina-Bina(MPPTCL)line	10	Dec'12	Award placed in Mar'09,Engg. Under progress
44	LILO of both ckt of Vindhyanchal - Jabalpur 400 KV D/C at Sasan	10	Dec'12	Award placed in Feb'09,Engg. Under progress
45	765 KV Bina-Indore line	320	Dec'12	
46	400 KV Indore-Indore(MPPTCL) line	120	Dec'12	
INTER-REGIONAL LINES				
East-West transmission corridor strengthening scheme				
1	400 KV Ranchi- Rourkela D/C	290	Aug'10	ROW Problem
2	400 KV Raigarh-Rourkela D/C	420	Oct'10	Final clearance awaited
3	400 KV Raigarh-Raipur	440	July'10	
Transmission system associated with Barh Generation project				
1	765 kv Seoni-Bina S/C	293	Mar'10	COMPLETED

GENERATION SCHEMES UNDER CONSTRUCTION IN WESTERN REGION

Sr.No.	Name of the power project	Unit No.	Capacity(MW)	commissionig schedule
A	<u>GUJARAT</u>			
1	Surat lignite expansion- GIPCL	3	125	12.04.10(*)
		4	125	23.04.10(*)
2	Ukai TPS extn	6	490	Feb-11
3	Pipavav CCPP-GPCL & GSPC	block 1	350	Sep-10
	joint venture	block 2	350	Mar-11
4	Mundra TPP ph-2 (Adani power)	3	330	Oct-10
		4	330	Nov-10
5	Mundra ultra mega TPP (TATA)	1	800	Sep-11
		2	800	Sep-12
6	Hazira CCPP Expansion GSEG	GT+ST	350	Sep-10
	(*) revised schedule awaited			
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	<u>MADHYA PRADESH</u>			
1	Amarkantak TPS	2	500	Apr-11
2	Satpura TPS ext.	10	250	Nov-10
		11	250	Mar-11
	<u>OTHER PROJECTS</u>			
1	Maheshwar HEP		400	2010-2011
2	Malwa TPP	1	500	Dec-10
C	<u>CHATTISGARH</u>			
1	Lanco Amarkantak PL	2	300	Aug-10
2	Marwa TPP	1	500	Sep-12
		2	500	Nov'12
3	Korba west -III TPP	1	500	Jun-12
	<u>OTHER PROJECTS</u>			
1	Bhaiyathan TPP Phase 1	1	500	Dec-12
		2	500	Aug-13
2	IFFCO	1	660	Aug-12
			660	Dec-12
D	<u>MAHARASHTRA</u>			
1	Khaperkheda TPS Extn.	1	500	Mar-11
2	Bhusawal Extn. TPP	1	500	Mar-11
		2	500	Sep-10

3	JSW Ratnagiri TPP (JSW Ltd.)	1	300	June'10
		2	300	Sep'10
		3	300	Dec'10
		4	300	Mar'11
	OTHER PROJECTS			
1	Koradi TPS extn	1	800	Oct-12
2	Dhopawe TPS	1	800	Nov-11
		2	800	May-12
3	Koradi TPS extn.(replacement)	1	800	Apr-12
4	Chandrapur TPS Extn	1	500	Dec-11
		2	500	May-12
E	<u>CENTRAL SECTOR</u>			
1	Sipat TPP	1	660	Nov'10
		2	660	May'11
		3	660	Nov'11
2	Korba STPS – III	7	500	Aug-10
3	Mauda TPP	1	500	2011-12
		2	500	2012-13

पश्चिम क्षेत्र चरम भार दिन के प्रतिघंटा भार वक
 HOURLY DEMAND CURVES ON REGIONAL PEAK DAY 10.05.2010



Power Grid Corporation of India Ltd.

Western Regional Despatch Centre

LOAD DURATION CURVE (MAY-2010) Max.demand met=32472 MW Min.demand = 25750 MW

