



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

**System Operation Report  
Of Western Region  
For the month of  
July 2010**

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(पावरग्रिड की एक पूर्ण स्वामित्व वाली कंपनी)

पश्चिम क्षेत्रीय भार प्रेषण केन्द्र, मुम्बई

**Power System Operation Corporation Ltd.**

(A wholly owned subsidiary company of POWERGRID)

**Western Regional Load Despatch Centre, Mumbai**

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**SYSTEM OPERATION REPORT OF WESTERN REGION  
FOR THE MONTH OF JULY 2010**

**A)SUMMARY REPORT**

**I)IMPORTANT EVENTS**

**a)COMMISSIONING OF NEW GENERATING UNITS**

SL.NO.	STATE/ISGS	STATION NAME	CAPACITY (MW)	TYPE	DATE
1	ADANI	UNIT-3	330	coal	30.07.10

**b)COMMISSIONING OF NEW TRANSMISSION LINES**

NIL

**c)COMMISSIONING OF NEW SUBSTATIONS**

NIL

**d)COMMISSIONING OF NEW LINE / BUS REACTORS**

SL.NO.	STATE/ISGS	STATION NAME	CAPACITY (MVAR)	TYPE	DATE
1	MSETCL	DHULE REACTOR-I	50	-	01.07.10

**e) Major problem/constraints affecting Grid operation including major Grid disturbances**

NIL

**i) Grid Separations**                      **NIL**

**ii) Grid Disturbances**                      **NIL**

माह जुलै 2010 में पश्चिम क्षेत्र का निष्पादन डाटा

II) **Performance of Western Regional Grid during July -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	705.52	595.2	-110.32	3.08	1.302
2	मध्य प्रदेश Madhya Pradesh	1090.34	1222.79	132.45	8.617	1.249
3	महाराष्ट्र Maharashtra	2142.49	2467.68	325.19	17.515	.242
4	छत्तिसगढ Chhattisgarh	-187.35	-254.54	-67.19	4.281	3.769
5	गोवा Goa	191.58	163.86	-27.72	.267	1.213
6	दमन और दीव D&D	166.42	153.17	-13.25	.157	.793
7	दादर नगर हवेली DNH	324.06	333.9	9.84	1.393	.122
8	पावरग्रिड एचवीडीसी PG(HVDC)	2.101	1.0185	-1.0825		
9	कुल TOTAL	4433.06	4682.06			

आवृत्ति रूपरेखा

III) a. Frequency Profile

MAXIMUM FREQUENCY( Inst.):	50.72 HZ
आधिकतम आवृत्ती एकिकृत :	
Minimum frequency(Inst)	48.71HZ
न्यूनतम आवृत्ती एकिकृत :	
Average frequency	49.83 HZ
औसत आवृत्ती	

b. आवृत्ती वितरण प्रतिशत में Frequency distribution in %

HZ	<48.8	<48.8 - 49.2	49.2 -49.5	49.5-50.2	50.2-51.0	>51.0
%	0.07	2.23	7.78	84.77	5.15	0.00

IV) Power Supply Position and Peak Demand / Met In Western Region

a. विद्युत पूर्ति की स्थिति Power Supply Position

	JULY-10			APR -10 TO JULY-10		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
Gujarat	5358.18	5159.44	3.71	11525.45	10938.33	5.09
CSEB	1623.17	1605.05	1.12	3246.01	3155.32	2.79
MPSEB	3042.11	2507.00	17.59	6514.15	5209.34	20.03
Maharashtra	10341.50	9334.26	9.74	20772.86	17931.16	13.68
Goa	195.00	191.94	1.57	429.82	393.97	8.34
D&D	163.97	150.15	8.43	339.06	287.65	15.16
DNH	330.62	325.84	1.45	633.01	628.23	0.76
Western Region	20484.75	18315.03	10.59	42686.08	37585.35	11.95

b. Peak Demand / Demand Met(MW)

	July-10			APR -10 to July-10		
	Requirement (MW)	Availability (MW)	Shortage (%)	Requirement (MW)	Availability (MW)	Shortage (%)
Gujarat	10352	9360	9.58	10620	9725	8.43
CSEB	2794	2738	2.00	3075	2922	4.98
MPSEB	5752	4387	23.73	7113	5747	19.20
Maharashtra	17029	14786	13.17	20308	15945	21.48
Goa	544	453	16.73	544	453	16.73
D&D	218	232	-6.42	291	236	18.90
DNH	472	486	-2.97	491	480	2.24
Western **Region	34534	28610	17.15	41080	33663	18.06

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

**PEAK DEMAND FOR JULY.2010**

State	Catered	UNSCH LS	FC	SCHLS	Total	Date	Time	Freq.
<b>दिव दमण DD</b>								
पंजीकृत Registered	232	-	-	-	232	27.07.10	16:00	50.04
<b>दादरा नगर हवेली DNH</b>								
पंजीकृत Registered	486	-	-	-	486	29.07.10	16:00	49.85
<b>गुजरात GUJARAT</b>								
पंजीकृत Registered	9360	-	-	-	9360	01.07.10	15:00	49.17
आंकलित Computed	9360	599	272	-	10231	01.07.10	15:00	49.17
असीमित Unrestricted	9360	599	393	0.00	10352	26.07.10	15:00	48.80
<b>छत्तीसगढ रा .वि.बोर्ड Chhattisgarh</b>								
पंजीकृत Registered	2738	-	-	-	2738	21.07.10	20:00	49.60
आंकलित Computed	2738	0	38		2776	21.07.10	20:00	49.60
असीमित Unrestricted	2738	0	38	18	2794	21.7.10	20:00	49.60
<b>मध्य प्रदेश रा .वि.बोर्ड Madhy Pradesh</b>								
पंजीकृत Registered	4387	-	-	-	4387	19.07.10	22:00	49.68
आंकलित Computed	4387	373	138	-	4898	29.07.10	20:00	49.10
असीमित Unrestricted	4298	0	48	1406	5752	02.07.10	22:00	49.68
<b>महाराष्ट्र रा .वि.बोर्ड-MAHA-RASHTRA</b>								
पंजीकृत Registered	14786	-	-	-	14786	24.07.10	14:00	49.90
आंकलित Computed	12415	3940	274	-	16629	19.07.10	20:00	49.37
असीमित Unrestricted	12415	3940	274	400	17029	19.07.10	20:00	49.37
<b>पश्चिम क्षेत्र WESTERN REGION</b>								
पंजीकृत Registered	28610	-	-	-	28610	01.07.10	21:00	49.51
आंकलित Computed	28610	3833	491	-	32934	01.07.10	21:00	49.51
असीमित Unrestricted	28610	3833	491	1600	34534	01.07.10	21:00	49.51

VI)	
माह जुलै 2010 में अंतर क्षेत्र से पश्चिम क्षेत्र को विद्युत विनिमय	
Inter-Regional Exchange of Power in Western Region during July-10	
DESCRIPTION	Import ( Mus )
Indian Energy Exchange (ER to WR)	152.90
Power Exchange of India (ER to WR)	51.05
ER (NTPC) to GUVNL	34.35
ER (NTPC) to MP PTCL	20.70
ER (NTPC) to CSEB	8.40
ER (NTPC) to MSEDCL	63.78
ER (NTPC) to D D	0.55
ER (NTPC) to D N H	0.84
DVC to MPPTCL (Long Term Open Access)	57.64
Hirakud to CSEB	1.32
TISCO to MSEB ( TPTCL)	6.68
TISCO to TPC MSEB ( TPTCL)	1.87
Indian Energy Exchange (NR to WR)	94.80
Rihand (Hydro) to MPPTCL (Long Term Open Access)	1.20
Matathilla (Hydro) to MPPTCL (Long Term Open Access)	0.41
JK to CSEB ( NVVNL)	11.91
MPSEB to HARIYANA ( MPPL)	14.63
BSES_RAJ to MPSEB ( MPSEB)	6.01
BSES(DTL) to MPSEB ( MPSEB)	1.62
BSES YM (DTL) to RINFRA MSEB ( IEXL)	0.15
HIMACHAL to RINFRA MSEB ( IEXL)	0.53
PSEB to RINFRA MSEB ( IEXL)	2.09
TNEB to CSEB ( PTC LTD)	18.29
DESCRIPTION	Export(Mus)
CSEB to BESCO ( PTC LTD)	5.62
TORRENT_GUVNL to BESCO ( NVVNL)	25.98
AIDCPL CSEB to BSES_RAJ ( LANCO)	0.76
BPIL CSEB to BSES_RAJ ( LANCO)	1.44
CSPL CSEB to BSES_RAJ ( LANCO)	1.75
MSPPL CSEB to BSES_RAJ ( LANCO)	0.55
MSPSPL CSEB to BSES_RAJ ( LANCO)	0.80
MECBL CSEB to BSES_RAJ ( LANCO)	0.89
REALISPAT CSEB to BSES_RAJ ( LANCO)	0.97
RSIPIL CSEB to BSES_RAJ ( LANCO)	0.53
SNIL CSEB to BSES_RAJ ( LANCO)	1.29
SCPL CSEB to BSES_RAJ ( LANCO)	0.07
SBMPL CSEB to BSES_RAJ ( LANCO)	0.86
VGL CSEB to BSES_RAJ ( LANCO)	2.59
VIL CSEB to BSES_RAJ ( LANCO)	0.52
CSEB to NDMC(DTL) ( PTC LTD)	1.98
CSEB to TRIPURA ( PTC LTD)	0.03

<b>DESCRIPTION</b>	<b>Export(Mus)</b>
GUVNL to TNEB ( PXIL)	79.99
MPSEB to WBSEB ( NVVNL)	7.34
AIDCPL CSEB to BSES_RAJ ( LANCO)	2.96
BALCO CSEB to BSES_RAJ ( LANCO)	24.45
BPIL CSEB to BSES_RAJ ( LANCO)	5.71
CSPL CSEB to BSES_RAJ ( LANCO)	9.04
JPL to BSES_RAJ ( JPL)	102.63
MPSEB to BSES_RAJ ( LANCO)	20.75
MPSEB to BSES_RAJ ( RETL)	35.15
MIEL CSEB to BSES_RAJ ( LANCO)	19.56
MSPPL CSEB to BSES_RAJ ( LANCO)	2.12
MIELMH CSEB to BSES_RAJ ( LANCO)	9.78
MSPSPL CSEB to BSES_RAJ ( LANCO)	2.75
MECBL CSEB to BSES_RAJ ( LANCO)	3.46
REALISPAT CSEB to BSES_RAJ ( LANCO)	4.04
RSIPIL CSEB to BSES_RAJ ( LANCO)	2.01
SNIL CSEB to BSES_RAJ ( LANCO)	3.53
SCPL CSEB to BSES_RAJ ( LANCO)	1.06
SBMPL CSEB to BSES_RAJ ( LANCO)	3.37
VGL CSEB to BSES_RAJ ( LANCO)	10.10
VIL CSEB to BSES_RAJ ( LANCO)	2.25
JPL to BSES YM (DTL) ( JPL)	96.06
MPSEB to BSES YM (DTL) ( LANCO)	40.95
MPSEB to BSES YM (DTL) ( RETL)	33.97
MSEB to BSES YM (DTL) ( RETL)	28.76
GUVNL to NPCL ( NPCL)	12.59
JPL to NDPL(DTL) ( TPTCL)	80.97
MPSEB to NDPL(DTL) ( PTC LTD)	9.68
CSEB to NDMC(DTL) ( PTC LTD)	5.06
APL to PSEB ( AEL)	50.74
CSEB to PSEB ( IEXL)	0.01
GFL GUVNL to PSEB ( TPTCL)	8.19
JPL to PSEB ( LANCO)	29.96
MPSEB to PSEB ( LANCO)	34.51
MPSEB to PSEB ( PSEB)	29.27
MSEB to PSEB ( NVVNL)	4.50
MSEB to PSEB ( PSEB)	70.41
TPC MSEB to PSEB ( TPTCL)	43.14
ACPCL CSEB to UT-CHANDIGARH ( LANCO)	7.93
MIEL CSEB to UT-CHANDIGARH ( LANCO)	18.53
MIELMH CSEB to UT-CHANDIGARH ( LANCO)	2.65
BALCO CSEB to UPPCL ( KISPL)	0.84
ISL CSEB to UPPCL ( KISPL)	0.76
JBIL CSEB to UPPCL ( KISPL)	0.63



<b>DESCRIPTION</b>	<b>Export(Mus)</b>
MPSEB to UPPCL ( MPPL)	51.92
RREL CSEB to UPPCL ( KISPL)	1.73
SSPL CSEB to UPPCL ( KISPL)	1.64
BALCO CSEB to APPCC ( LANCO)	44.05
LAMKPL to APPCC ( PTC LTD)	158.32
CSEB to BESCOM ( PTC LTD)	35.50
TORRENT_GUVNL to BESCOM ( NVVNL)	49.68
GUVNL to KSEB ( IEXL)	0.38
IRSL MSEB to KSEB ( GMRETL)	0.11
IIPL MSEB to KSEB ( GMRETL)	0.02
NSPCL CSEB to SAIL-SLM ( SAIL-SLM)	2.37
GUVNL to TNEB ( IEXL)	42.54
GUVNL to TNEB ( PXIL)	164.36
MPSEB to TNEB ( MPPL)	8.51
TPC MSEB to APPCC ( TPTCL)	3.42
TORRENT_GUVNL to APPCC ( NVVNL)	108.14
WELSPUN GUVNL to APPCC ( TPTCL)	9.80
CSEB to BESCOM ( PTC LTD)	34.04
GUVNL to BESCOM ( PTC LTD)	22.15
JPL to BESCOM ( PTC LTD)	33.00
GOA (SR) to GOA ( WHEELING)	5.61
ACC(KYMORE) MPSEB to INDIA CEMENT ( TPTCL)	3.25
VARDHMAN MPSEB to INDIA CEMENT ( TPTCL)	1.36
VFL MPSEB to INDIA CEMENT ( TPTCL)	2.20
AFAL CSEB to KSEB ( GMRETL)	1.99
BALCO CSEB to KSEB ( GMRETL)	23.09
HPSL CSEB to KSEB ( GMRETL)	1.68
JPAL CSEB to KSEB ( GMRETL)	6.59
JBIL CSEB to KSEB ( GMRETL)	3.65
BSES(DTL) to MESCOM ( PPDPL)	1.01
APL to TNEB ( AEL)	24.11
GUVNL to TNEB ( PTC LTD)	13.86
INDORAMA MSEB to TNEB ( TPTCL)	5.81
JPL to TNEB ( NVVNL)	41.46
JPL to TNEB ( PTC LTD)	12.05
TPC MSEB to TNEB ( TPTCL)	9.93
VIL GUVNL to TNEB ( NVVNL)	5.34
WELSPUN GUVNL to TNEB ( TPTCL)	0.30
<b>NET EXPORT TO ER</b>	<b>203.04</b>
<b>NET EXPORT TO NR</b>	<b>1090.92</b>
<b>NET EXPORT TO SR</b>	<b>542.39</b>

दिनांक 31.07.2010 को राज्यानुसार संस्थापित क्षमता

**B) INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS ON 31.07.2010**

(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 a	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 Prade	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 a	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 a	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	2035.00	180.00	0.00	2662.00	0.00	2282.55	4944.55
	Central(firm a	0.00	2003.05	2623.93	690.14	5317.12	0.00	0.00	5317.12
	Total	3331.84	11333.05	3715.93	690.14	19070.96	0.00	2533.28	21604.24
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 a	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 a	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 a	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	4945.00	2805.50	0.00	8197.50	0.20	4538.44	12736.14
	Central(firm a	1520.00	5675.30	3336.68	1611.86	12143.84	0.00	0.00	12143.84
	Unallocated	0.00	950.35	196.91	228.14	1375.40	0.00	0.00	1375.40
	Total	7447.50	28173.15	8143.81	1840.00	45604.46	17.48	4849.93	50824.22

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

C) SILENT FEATURE OF WESTERN REGION GRID FOR THE MONTH OF JULY-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
जुलै July'09	12922.39	8138	4082.05	20464.71	357.23	13584.68	1210.12	47413.00
जुलै July'10	14325.47	8280.54	4769.47	21604	380.88	13871.59	1375.40	50824.22
वृद्धि प्रतिशतमें % increase	10.86	1.75	16.84	5.57	7	2.11	13.7	7.19
2. ऊर्जा Energy (Gross)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	प क्षेत्र Western Region
असिमित आवश्यकता Unrestricted requirement (MUs)								
जुलै July'09	4891.87	2981.91	1124.01	8947.03	225.94	171.58	341.98	18685.24
जुलै July'10	5358.18	1623.17	3042.11	10341.50	195.00	163.97	330.62	20484.75
असिमित आवश्यकता Unrestricted Requirement MUs/day								
जुलै July'09	157.80	96.19	36.26	288.61	7.29	5.53	11.03	602.75
जुलै July'10	172.84	52.36	98.13	333.60	6.29	5.29	10.67	660.80
ऊर्जा उपलब्धता Energy availability (MUs)								
जुलै July'09	4860.08	2477.51	1105.83	7956.71	223.16	152.98	341.92	17119.17
जुलै July'10	5159.44	1605.05	2507.00	9334.26	191.94	150.15	325.84	18315.03
ऊर्जा उपलब्धता Energy availability MUs/day								
जुलै July'09	156.78	79.92	35.67	256.67	7.20	4.93	11.03	552.23
जुलै July'10	166.43	51.78	80.87	301.11	6.19	4.84	10.51	590.81
3. मांग Demand	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	प क्षेत्र Western Region
असिमित मांग Unrestricted demand (MW)								
जुलै July'09	8475	5358	2637	16083	421	247	454	32455
जुलै July'10	10352	2794	5752	17029	544	218	472	34534
प्रतिशत in%	22.15	-47.85	118.13	5.88	29.22	-11.74	3.96	6.41
बचत मांग Peak Demand met (MW)								
जुलै July'09	8206	4229	2551	12847	379	222	454	27629
जुलै July'10	9360	2738	4387	14786	453	232	486	28610
प्रतिशत in%	14.06	-35.26	71.97	15.09	19.53	4.50	7.05	3.55
4. मांग और ऊर्जा में कमतरता प्रतिशतमें Shortage in demand and energy (%)								
क्षमतामें कमी Capacity shortage	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	पश्चिम क्षेत्र Western Region
अधिशेष (-)/surplus (+) (MW)								
जुलै July'09	-269	-1129	-86	-3236	-42.00	-25.00	0.00	-4826
प्रतिशत in%	-3.17	-21.07	-3.26	-20.12	-9.98	-10.12	0.00	-14.87
जुलै July'10	-992	-56	-1365	-2243	-91	14	14	
प्रतिशत in%	-9.58	-2.00	-23.73	-13.17	-16.73	6.42	2.97	-17.15
ऊर्जा में कमी Energy अधिशेष Surplus (+) (MUs)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ़ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	प क्षेत्र Western
जुलै July'09	-31.79	-504.40	-18.18	-990.32	-2.78	-18.60	-0.06	-1566.07
प्रतिशत in%	-0.65	-16.92	-1.62	-11.07	-1.23	-10.84	-0.02	-8.38
जुलै July'10	-198.74	-18.12	-535.11	-1007.24	-3.06	-13.82	-4.78	
प्रतिशत in%	-3.71	-1.12	-17.59	-9.74	-1.57	-8.43	-1.45	-10.59

C) माह जुलै 10 में ग्रिड के प्रमुख उप केन्द्र का विद्युतदाब रूपरेखा

II)

**Voltage Profile of major Sub-Stations for the month of July-2010**

क्षेत्र Region	सब स्टेशनका नाम Sub station name	अधिकतम 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	0.00	0.51	99.49	438	406	
	असोज Asoj	400	0.00	0.01	99.99	428	408	
	कराड Karad	400	0.00	13.16	86.84	436	398	
	कासेर Kasor	400	0.00	3.20	96.80	429	408	
	इन्दौर Indore	400	0.00	27.69	72.31	430	398	
	इटारसी Itarsi	400	0.00	2.94	97.06	431	407	
	जेटपुर Jetpur	400	0.01	56.20	43.79	428	378	
	भिलाई Bhilai	400	0.00	22.87	77.13	423	400	
	बिना Bina	400	0.37	65.64	33.99	435	379	
	ग्वालियर Gwalior	400	5.70	62.89	31.41	435	371	

### **Report on Transmission constraints for the month of July - 2010**

III)

The following are the present transmission constraints in the WR system:-

1. Due to overdrawl by NR constituents,critical loadings experienced on 765 kV Agra-Gwalior,Gwalior - Bina(operated at 400kV), 220 KV Badod-Kota and 220 kV Badod-Modak lines.
2. 400 kV Sugan - Vapi experienced critical loading during overdrawl by Maharashtra under drawl by Gujrat and low generation levels at TARAPUR/RGPPL
- 3.High voltage problem at Dhule,Wardha,Akola,Khandwa, Nagda,Karad due to low loads and inadequate VAR compensation.
4. Koyana IV 4\*250 MW has been taken out in Maharashtra for lake -tapping work for 4 months resulting in loss of 1000MW and MVAR absorpion capacity of about 150MVAR/Unit. Due to loss of absorpion Mvar capacity 400 KV long lines at stage -IV are kept open,based on availability of RGPPL units and real time voltage profile.

माह जुलै 2010 का अंतर राज्य में ऊर्जा परिषण

IV)

<b>a) Inter-Regional Transfer Of Energy For The Month Of July - 2010</b>	
<b>EXPORT</b>	<b>Mus</b>
<b>NET EXPORT TO ER</b>	<b>203.04</b>
<b>NET EXPORT TO NR</b>	<b>1090.92</b>
<b>Total EXPORT TO SR</b>	<b>542.39</b>

<b>b) INTRA- REGIONAL ENERGY EXCHANGES( In Mus)</b>	
Mundra APL to Gujarat (LTOA)	350.35
NSPCL CSEB to DD ( BILATERAL)	46.53
NSPCL CSEB to DD ( DD)	27.51
NSPCL CSEB to DNH ( BILATERAL)	66.46
NSPCL CSEB to DNH ( DNH)	22.07
JPL to MPSEB ( MPSEB)	32.85
AFAL CSEB to MSEB ( TPTCL)	1.41
AIDCPL CSEB to MSEB ( KISPL)	0.46
BPIL CSEB to MSEB ( KISPL)	0.94
CSPL CSEB to MSEB ( KISPL)	0.37
GUVNL to MSEB ( IEXL)	34.20
GPIL CSEB to MSEB ( TPTCL)	3.79
HFAL CSEB to MSEB ( TPTCL)	0.65
JPAL CSEB to MSEB ( TPTCL)	5.38
LAMKPL to MSEB ( IEXL)	1.20
MSPPL CSEB to MSEB ( KISPL)	0.25
REALISPAT CSEB to MSEB ( KISPL)	0.85
RREL CSEB to MSEB ( TPTCL)	2.00
SNIL CSEB to MSEB ( KISPL)	0.86
SSPL CSEB to MSEB ( TPTCL)	1.93
SBMPL CSEB to MSEB ( KISPL)	1.33
TORRENT_GUVNL to MSEB ( IEXL)	5.60
VIL CSEB to MSEB ( KISPL)	0.36
JPL to RINFRA MSEB ( JPL)	115.95
MPSEB to RINFRA MSEB ( LANCO)	0.85
MPSEB to RINFRA MSEB ( REL MSEB)	0.82
MPSEB to RINFRA MSEB ( RINFRA MSEB)	48.33
GUVNL to TPC MSEB ( PXIL)	7.20
GUVNL to TPC MSEB ( TPC MSEB)	0.62

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

**(Figures in bracket are export )**

<b>TOTAL</b>	<b>GUVNL</b>	<b>MPPTCL</b>	<b>CSEB</b>	<b>MSEDCL</b>	<b>GOA</b>	<b>DD</b>	<b>DNH</b>	<b>JINDAL POWER</b>	<b>LANCO</b>
<b>(237.41)</b>	<b>(282.189)</b>	<b>(32.905)</b>	<b>(54.397)</b>	<b>167.477</b>	<b>.006</b>		<b>7.000</b>	<b>(28.595)</b>	<b>(13.8)</b>

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

**(Figures in bracket are export )**

<b>TOTAL</b>	<b>GUVNL</b>	<b>MPPTCL</b>	<b>CSEB</b>	<b>MSEDCL</b>	<b>GOA</b>	<b>DD</b>	<b>DNH</b>	<b>JINDAL POWER</b>
<b>(109.022)</b>	<b>(117.780)</b>	<b>(.862)</b>	<b>(3.336)</b>	<b>12.956</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**(E) Scope for further increase in Inter-state energy transfer and constraints if any: Nil**

**(F) Regulatory measures (If any) : Nil**

**D) AUFLS OPERATION DURING JULY- 2010**

**In the month of July- 2010 , frequency remained below 49.5 Hz for 11.08% of the time .**

**In Maharashtra UF relay operation occurred on 29 occasions, in Gujarat UF relay operation occurred on 19 occasions, in Madhya Pradesh UF relay operation occurred on 20 occasions and in Chhattisgarh UF relay operation occurred on 8 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	13th,14th,15th,16th,17th,19th,26th,28th,29th,30th	2.0 -96	550	Nil
Gujarat	13th,15th,16th,17th,19th,26th,28th,29th,30th	14.76-49.53	220	14th
Madhya Pradesh	13th,14th,16th,17th,19th,26th,28th,29th	.3-92.6	152	15th,30th
CSEB	13th,16th,17th,24th,26th,28th,29th,30th	2-15	38	14th,15th,19th

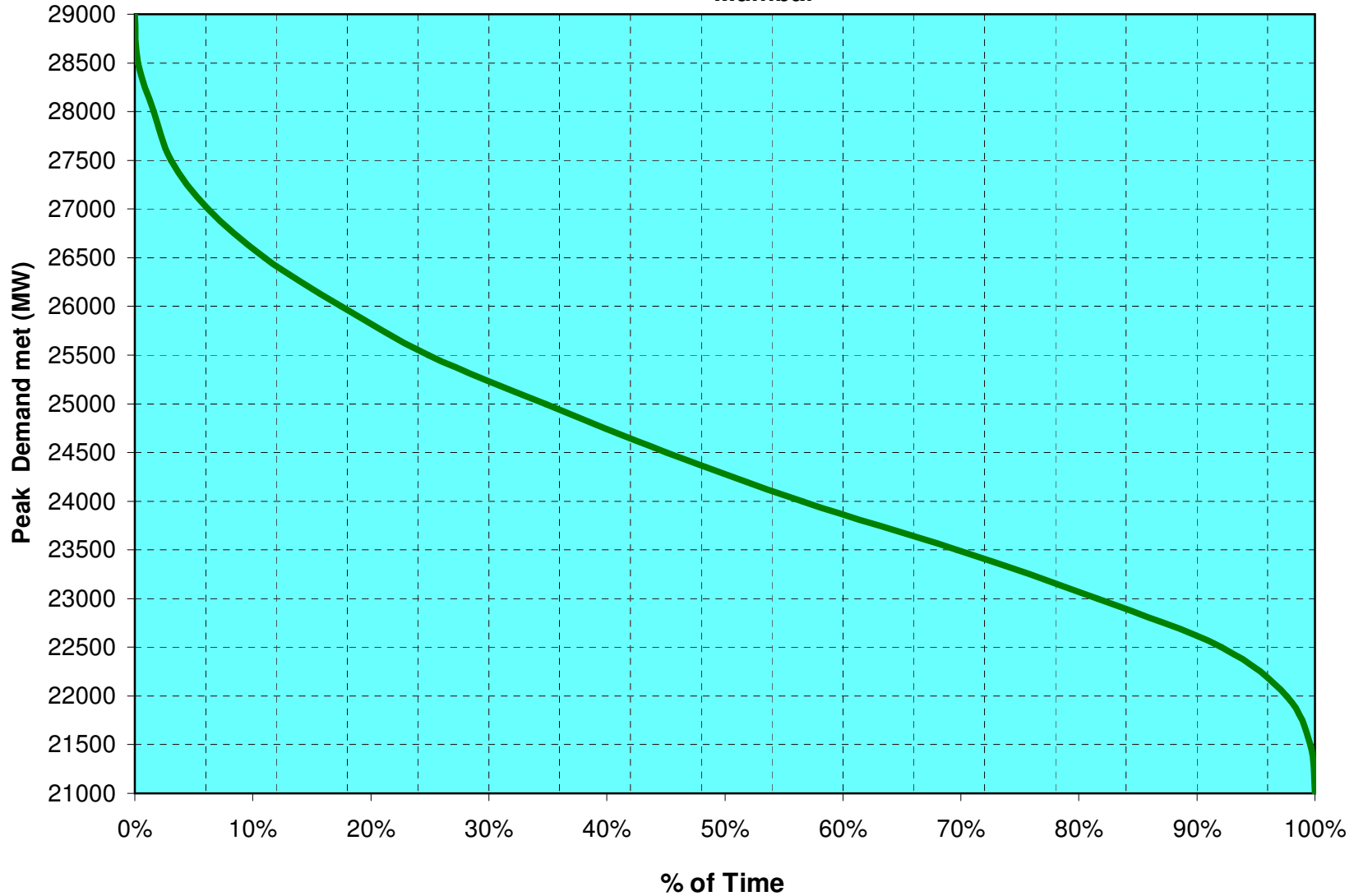


पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
(पावरग्रिड की एक पूर्ण स्वामित्व वाली कंपनी)

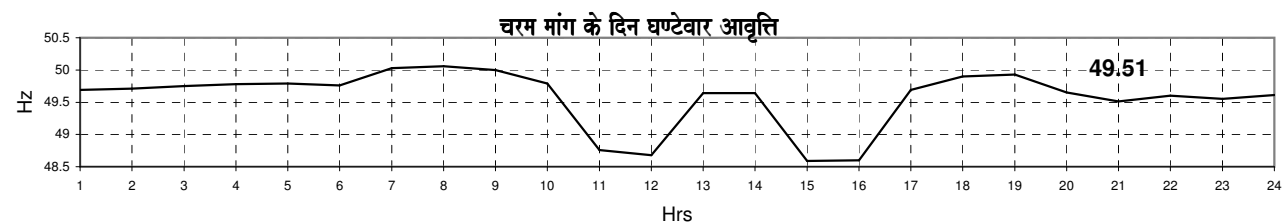
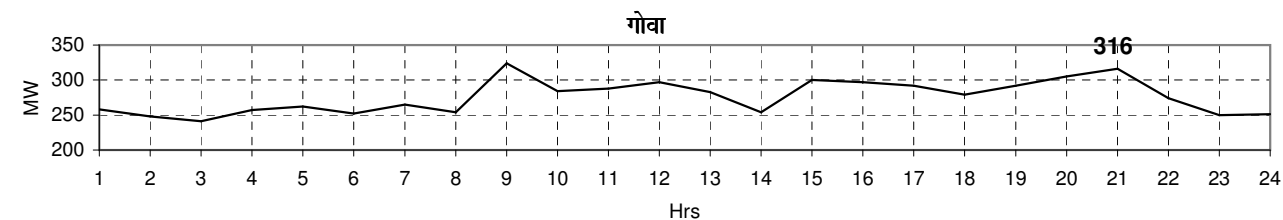
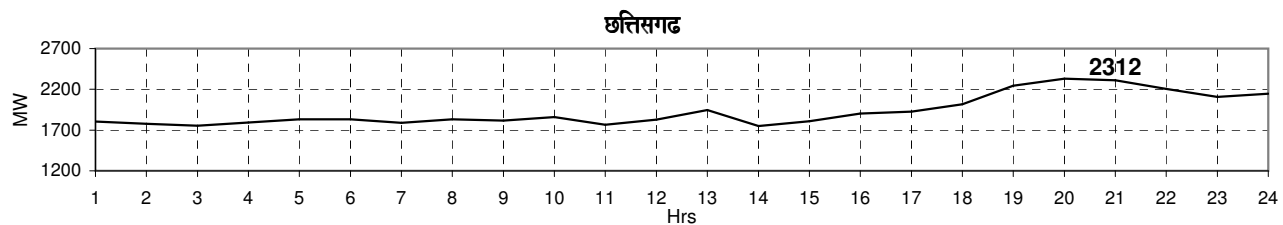
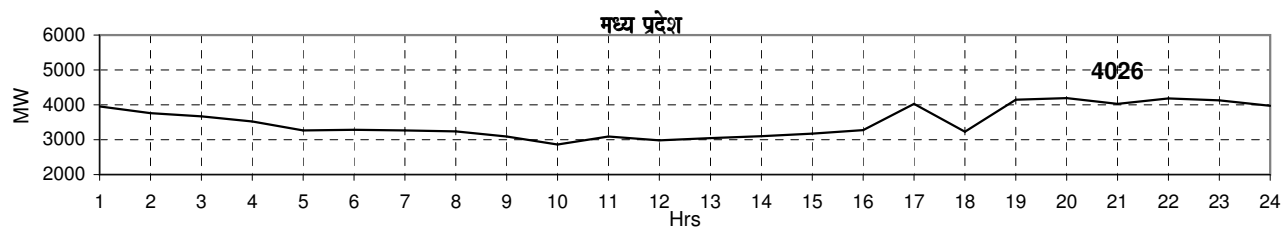
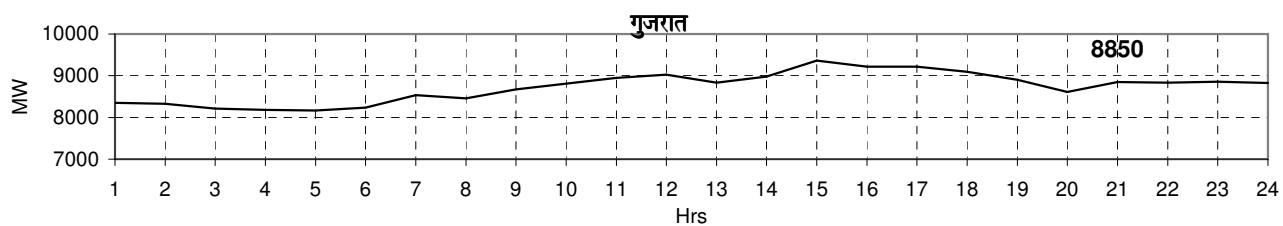
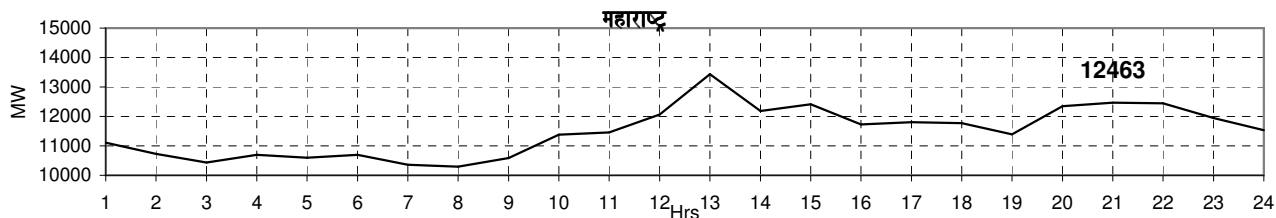
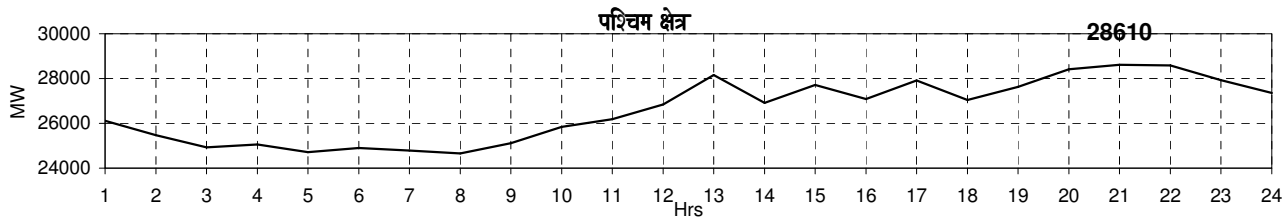
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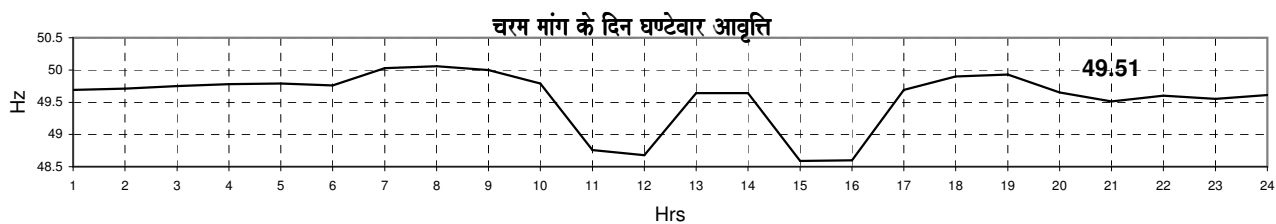
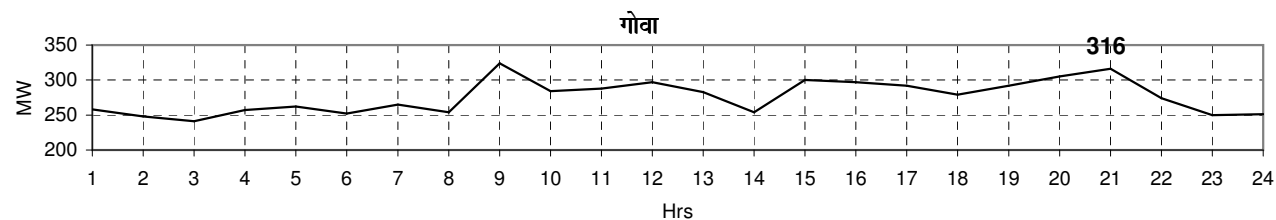
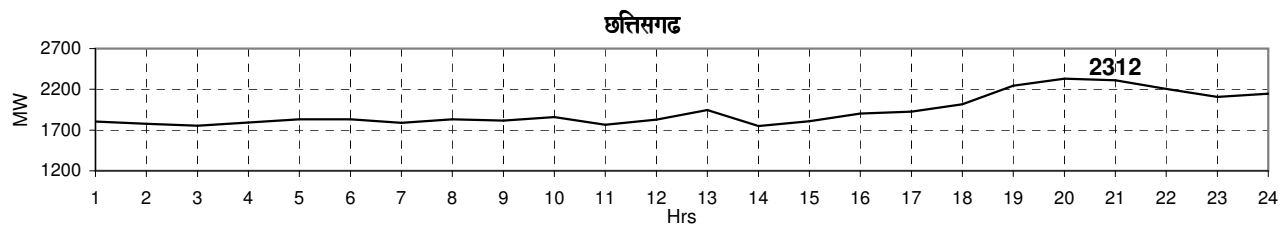
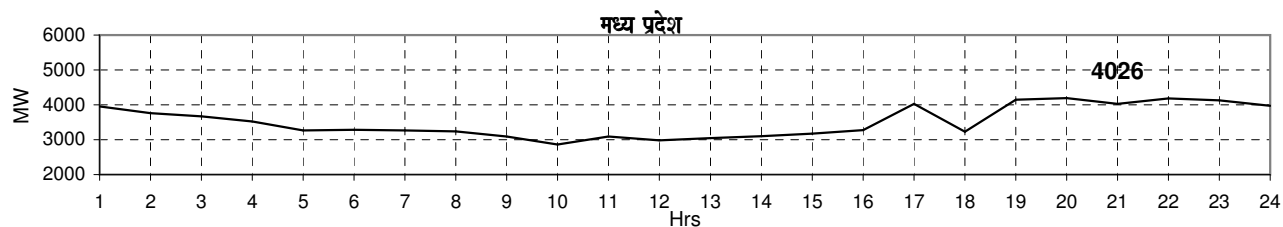
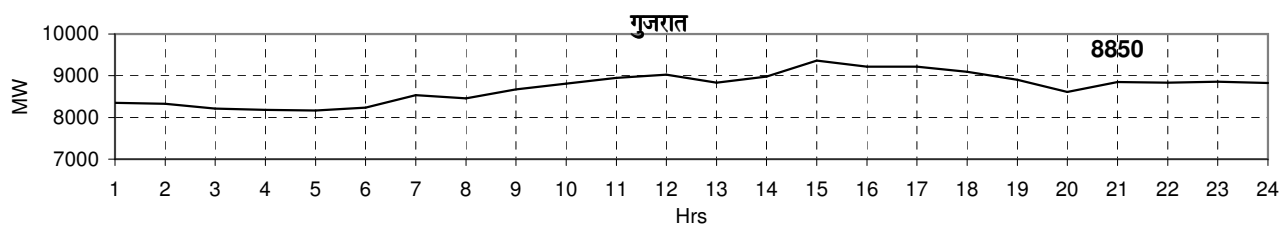
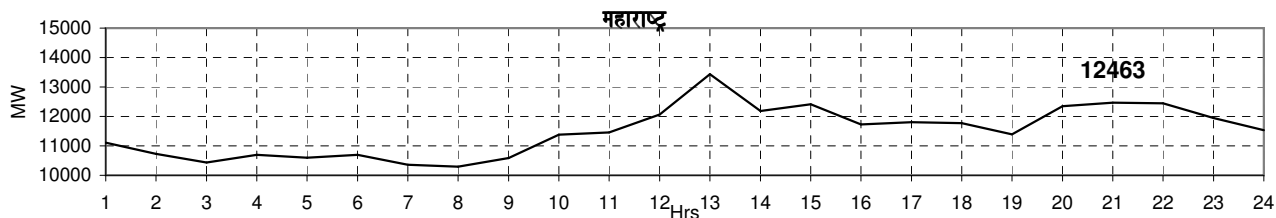
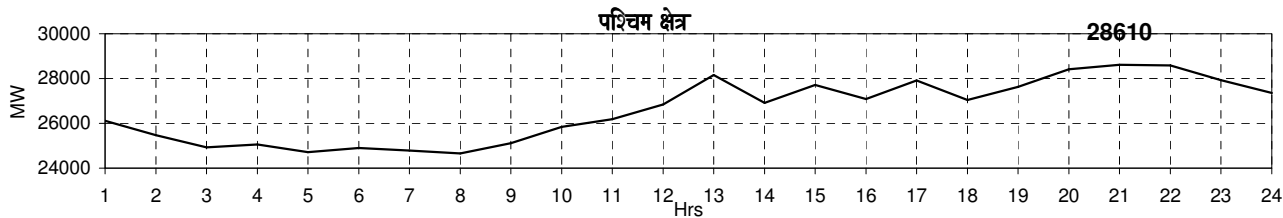
**Power System Operation Corporation Ltd.**  
(A wholly owned subsidiary company of Powergrid)  
**Western Regional Load Despatch Centre**  
**Mumbai**



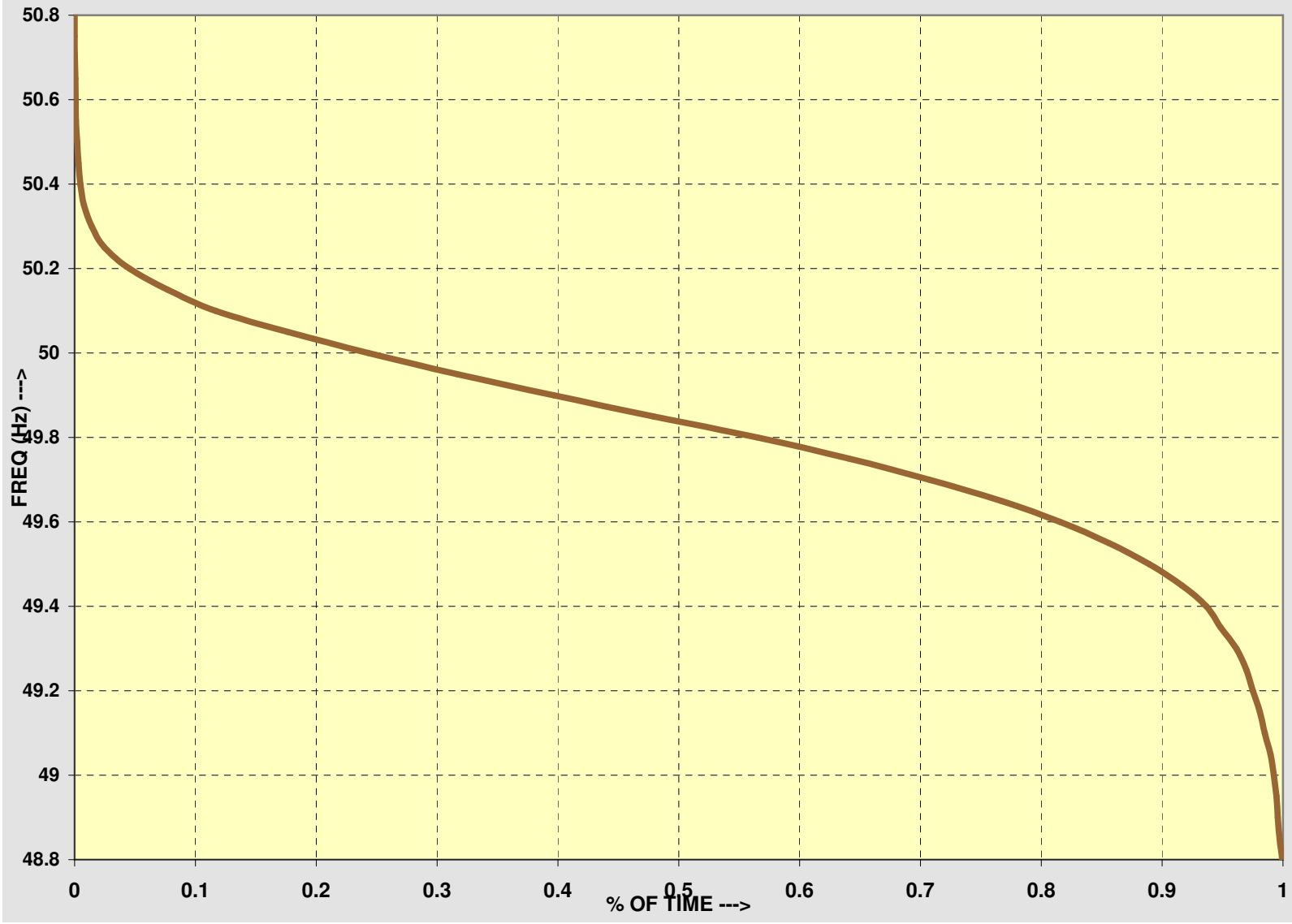
**पश्चिम क्षेत्र का चरम भार दिन के प्रतिघंटा भार वक**  
**HOURLY DEMAND CURVES ON REGIONAL PEAK DEMAND DAY 01.07.2010**

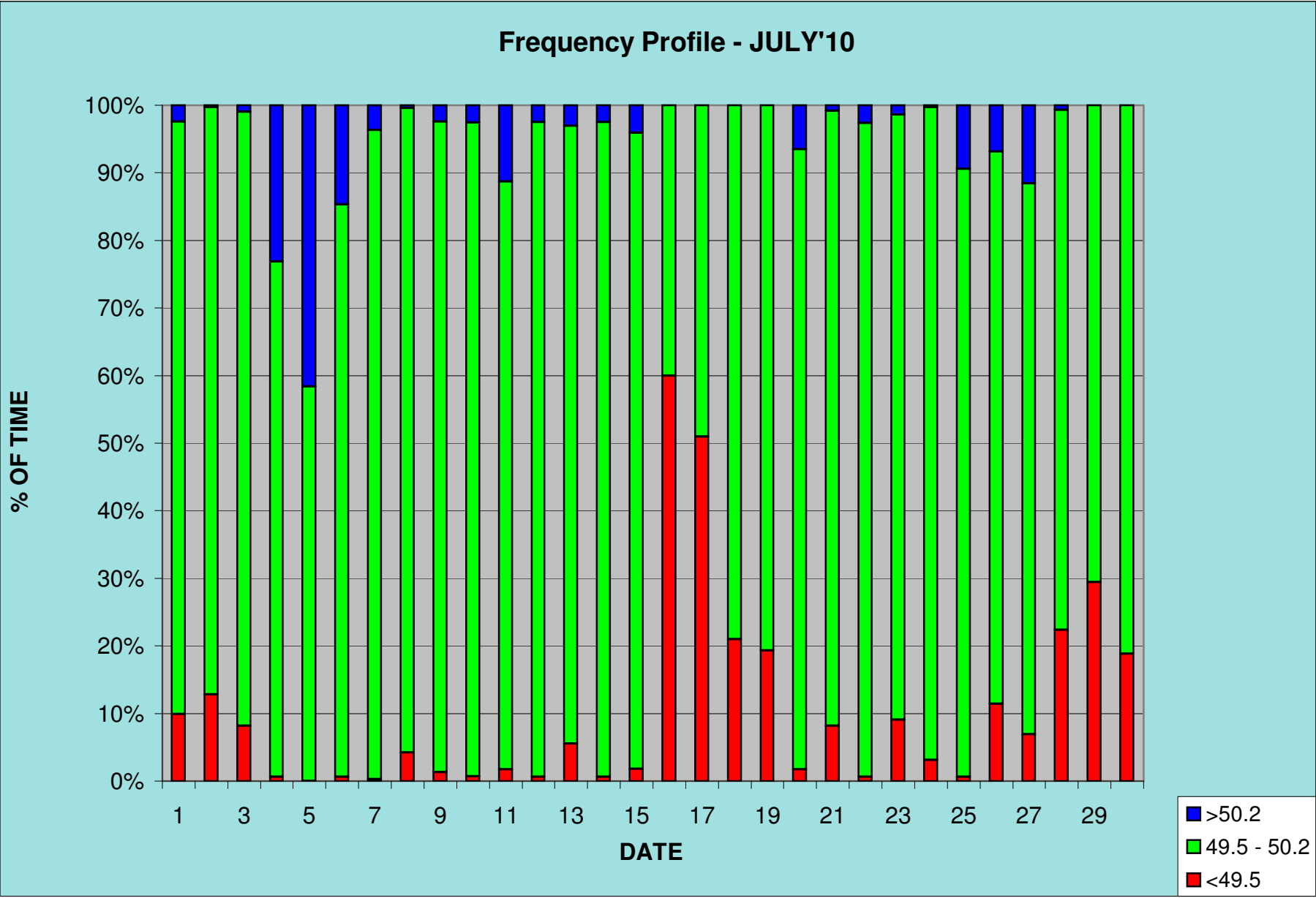


**पश्चिम क्षेत्र का चरम भार दिन के प्रतिघंटा भार वक**  
**HOURLY DEMAND CURVES ON REGIONAL PEAK DEMAND DAY 01.07.2010**



### NEW GRID FREQUENCY DUR ATION CURVE FOR July'





**PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR**

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
<b>A</b>	<b>Gujarat</b>			
	<b>I)400kV Lines</b>			
1	Mundra-Varsana D/C	166	Nov'10	work under progress,ROW Problems
2	Tappar(Varsana)-Hadala	318	Sep`10	work under progress,ROW Problems
3	Essar - Hadala	226	Sep`10	work under progress,ROW Problems
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
	<b>II)220kV Lines</b>			
1	220 KV D/C Utran- Kosamba s/s from Vav-Zagadia line-II	86	Sep`10	work under progress, ROW Problem
2	220 KV D/C GSEG(Hazira)-Kosamba line	124	Nov`10	Work under progress
3	220 KV D/C GPPC-Dhokadva line	100	Sep`10	Work under progress
4	LILO of one circuit of 220 KV D/C Savarkundla-Otha line at GPPC	93	Aug'10	Work under progress
5	LILO of 220 KV Morbi-Halvad line 1 at 400 KV Bhimasar (PG) S/S	215	Jan'11	Check survey work under progress
6	LILO of 220 KV Morbi-Halvad line 2 at 400 KV Bhimasar (PG) S/S	210	Jan'11	Check survey work under progress
7	220 KV GSEG(Hazira)-Mota line	111.06	Oct'10	Check survey work under progress
8	220 KV D/C Nakhatrana-Varsana line	190	Dec'10	Check survey work under progress
<b>B)</b>	<b>Madhya Pradesh</b>			
	<b>I) 400kV Lines</b>			
	<b>II) 220kV Lines</b>			
1	LILO of 1st ckt DCDS200KV Gwalior-Malanpur at 400kv Gwalior PGCIL S/S	16.4	2010-11	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	2010-11	Work almost completed, charging being arranged
5	Chhindwara- Betul	270	2010-11	Work almost completed, railway crossing work balance
6	Chegoan - Nimrani	205	2010-11	Work almost completed, charging being arranged
7	Maheshwar - Rajgarh	230	2011-12	Forest approval not yet received.work not commenced
8	Dewas - Astha line	144	2010-11	Work in progress
<b>C)</b>	<b>Chhatisgarh</b>			
	<b>I) 400kV Lines</b>			
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

**PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR**

	<b>Name of transmission line</b>	<b><u>Length in ckt km.</u></b>	<b>Commissioning Schedule</b>	<b>Remarks</b>
4	LILO of 400 KV Korba(W)Bhilai(Khedmara) line to Marwa TPP	65	Mar'12	Preliminary survey and tender preparation under progress
	<b>II) 220kV Lines</b>			
1	Korba- Bishrampur DCSS	153	2010-11	Payment for forest compensation has been made, work will start after second phase approval of forest.
2	LILO of 220kv Bhatapara-Raipur (PGCIL )at Doma	21.47	Sep'10	Work under progress
3	220 KV DCSS Kheedmara - 220KV s/s Bentara + 1 no. bay at Khedmara & 1 no. at Betemara	50.9	Sep'10	Work under progress
4	Chhuri - Mopka DC DS line	90	Aug'11	Profile of 34.84 km has been approved
5	I/C between new power house at Korba ( E )to proposed 220 kv Chhuri	30	2010-11	Work to be taken up
6	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
7	Diversion of 220kv line of Korba - Bhatapara and 220k I/C in between Korba ( w ) and proposed 220 kv Cchuri s/s using section of Korba - Amarkantak- I & II	14	2010-11	Work to be taken up
8	Diversion of 220 KV Korba- Amarkantak Ckt-I & II to proposed 200/132 KV Chhuri s/s DCSS	4	2010-11	Land aquisition under progress
<b>D)</b>	<b>Maharashtra</b>			
	<b>I) 400kV Lines</b>			
1	Bhusawal-II -A'rangabad ( location 1-270)	190	Sep` 10	work in progress
2	400 KV D/C line from Chandrapur Wardha via Warora	123	Apr'11	Work in progress
3	400 KV line from Koradi TPS- Wardha s/s	120	Apr'11	Work in progress
	<b>II) 220kV Lines</b>			
1	Chitegaon-Shendra D/C	43.1	Oct'10	Excavation work in progress
2	Beed - Patoda D/C	45	July'10	Work in progress
3	Parli TPS-Nanded M/C line (Waghala)	90.3	July'10	Work in progress
4	Jaina- Chikhali D/C	150	Dec'10	Work in progress

**PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR**

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
5	220kv D/C on D/C tower from 400kv Bhusawal-II to 220kv Amalner	182	Oct'10	Work still in progress
6	220 KV D/C on D/C Tower from Jeur-Paranda	30	oct'10	Check survey in progress, work not started.
7	220 KV Koradi-Butibori II D/C line on M/C tower at 400 KV Koradi s/s	53	Nov'10	Work in progress
8	220 KV Paras-Balapur D/C on M/C	5.61	Nov'10	Work in progress
<b>Sl.No</b>	<b>POWERGRID</b>			
	<b>765 kV &amp; 400kv</b>			
E)	<b>W R Strengthening scheme-II</b>			
<b>For Absorbing import in Eastern and Central part of WR</b>				
1	765 kv 2nd s/c Seoni(PG)-Wardha(PG)	261	Sep'11	Stringing commenced from April'10
2	400 KV Wardha(PG)-Parli(PG) D/C(quad.)	674	Dec'10	ROW problem
3	400 KV Raipur(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 KV Parli ( MSEB)-Parli (PG) D/C	14	Nov'10	Engg & survey under progress
<b>For Regional strengthening in southern Maharashtra to be implemented through IPTC Route by WR transmission</b>				
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	Nov'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	Sep`10	WRTPL taken up the matter with MSETCL for clearance of LILOing of this line
<b>For Regional strengthening in Gujarat to be implemented through IPTC Route by WR transmission (Guj) Pvt. Ltd.</b>				
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	
<b>For Regional strengthening in Northern Madhya Pradesh</b>				
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	Dec'10	
<b>Transmission system associated with Gandhar-II(GBPP)</b>				
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	*	



**PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR**

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
<b>WR strengthening system-V</b>				
21	400 KV Vapi- Navi Mumbai D/C	258	Mar'11	Severe ROW problem
22	Vapi- Khadoli 220kv D/C	56	Nov'10	Severe ROW problem
23	Lilo of L'khand-Kalwa S/C at Navi Mumbai	10	Mar'11	Severe ROW problem
<b>WR strengthening system-VI</b>				
24	400 KV Dehgam Pirana D/C	92	Nov`10	
<b>WR strengthening system-IX</b>				
25	LILO of 400 KV Bina-Nagda Line at Sujalpur	60	Jan'11	Award placed in Nov'09
<b>WR strengthening system-X</b>				
26	LILO of 765 KV Sipat-Seoni line near Sipat at Bilaspur	14	Feb'12	Tendering under progress connected with Bilaspur Pooling station
<b>WR strengthening system-XI</b>				
27	LILO of 765 KV 2nd Sipat-Seoni line near Sipat at Bilaspur	24	Feb'12	Tendering under progress connected with Bilaspur Pooling station
<b>Transmission system associated with Korba-III</b>				
28	400 KV D/C Korba STPS-Raipur line	430	June'11	Effort is being made to complete the line earlier
<b>Transmission system associated with Mundra UMPP</b>				
29	400 KV D/C Mundra-Limbdi	626	Dec'11	Wild life sanctury portion clearance awaited
30	400 KV D/C Mundra-Bachchauranchodpur	764	Feb'11	Wild life sanctury portion clearance awaited
31	400 KV D/C Mundra-Bachchaur-Jetpur	666	Mar'12	Wild life sanctury 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-Aurangabad(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
<b>Transmission system associated with Sasan UMPP</b>				
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	
<b>INTER-REGIONAL LINES</b>				
<b>East-West transmission corridor strengthening scheme</b>				
1	400 KV Ranchi- Rourkela D/C	290	Sep`10	ROW Problem
2	400 KV Raigarh-Rourkela D/C	420	Oct'10	Final clearance awaited
3	400 KV Raigarh-Raipur	440	Sep'10	