



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

**System Operation Report
Of Western Region
For the month of
Aug -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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माह अगस्त 2010 में पश्चिम क्षेत्र का निष्पादन डाटा

II Performance of Western Regional Grid during Aug -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	301.62	141.52	-160.1	0	0
2	मध्य प्रदेश Madhya Pradesh	1223.23	1231.39	8.16	0	0
3	महाराष्ट्र Maharashtra	2557.94	2863.41	305.47	0.552	0
4	छत्तिसगढ Chhattisgarh	-138.94	-250.81	-111.87	0	0
5	गोवा Goa	213.15	159.54	-53.61	0	0
6	दमन और दीव D&D	166.54	160.23	-6.31	0.009	0
7	दादर नगर हवेली DNH	345.48	346.41	0.93	0.002	0
8	कुल TOTAL	4669.02	4651.69	-17.33	0.563	0

आवृत्ति रूपरेखा

III a. Frequency Profile

MAXIMUM FREQUENCY(Inst.):	50.65 HZ
आधिकतम आवृत्ती एकेकृत :	
Minimum frequency(Inst)	48.73 HZ
न्यूनतम आवृत्ती एकेकृत :	
Average frequency	49.85 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
%	0.02	1.76	6.41	87.61	4.2	0.00

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

a. विद्युत पूर्ति की स्थिति Power Supply Position

	AUG-10			APR -10 TO AUG-10		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
Gujarat	5186	5096	1.74	30575.08	28736.54	6.01
CSEB	1785	1780	0.28	8538.35	8426.35	1.31
MPSEB	3076	2603	15.38	17245.81	13883.08	19.50
Maharashtra	9714	8516	12.34	55347.50	46271.05	16.40
Goa	207	197	4.83	1102.67	1034.47	6.19
D&D	169	156	8.00	782.66	704.41	10.00
DNH	345	340	1.48	1626.69	1615.76	0.67
Western Region	20476	18688	8.73	114437.57	99777.45	12.81

b. Peak Demand / Demand Met(MW)

	Aug-10			APR -10 to Aug-10		
	Requirement (MW)	Availability (MW)	Shortage (%)	Requirement (MW)	Availability (MW)	Shortage (%)
Gujarat	9116	8928	2.06	10620	9725	8.43
CSEB	2828	2776	1.84	3075	2922	4.98
MPSEB	5854	4592	21.56	7113	5747	19.20
Maharashtra	16873	13780	18.33	20308	15945	21.48
Goa	371	339	8.61	544	453	16.73
D&D	268	236	11.94	291	248	14.78
DNH	510	505	0.98	510	505	0.98
Western **Region	33989	29207	14.07	41080	33663	18.06

PEAK DEMAND FOR AUG.2010

State	Catered	UNSCHLS +SCHLS	FC	PC	Total	Date	Time	Freq.
दिव दमण DD								
पंजीकृत Registered	248	-	-	-	248	19.08.10	18:00	50.05
दादरा नगर हवेली DNH								
पंजीकृत Registered	510	-	-	-	510	18.08.10	18:00	49.97
गुजरात GUJARAT								
पंजीकृत Registered	8220	-	-	-	8220	26.08.10	15:00	49.74
आंकलित Computed	8177	168	203	-	8548	26.08.10	20:00	49.29
असीमित Unrestricted	8177	208	203	0.00	8588	26.08.10	20:00	49.29
छत्तीसगढ रा .वि.बोर्ड Chhattisgarh								
पंजीकृत Registered	2776	-	-	-	2776	23.08.10	19:00	49.95
आंकलित Computed	2705	56	54		2815	26.08.10	21:00	49.43
असीमित Unrestricted	2705	69	54	0	2828	26.08.10	21:00	49.43
मध्य प्रदेश रा .वि.बोर्ड Madhy Pradesh								
पंजीकृत Registered	4592	-	-	-	4592	27.08.10	22:00	49.88
आंकलित Computed	4228	554.8	58	-	4841	13.08.10	22:00	49.61
असीमित Unrestricted	4228	1567.8	58	0	5854	13.08.10	22:00	49.61
महाराष्ट्र रा .वि.बोर्ड-MAHA-RASHTRA								
पंजीकृत Registered	13780	-	-	-	13780	11.08.10	14:00	49.64
आंकलित Computed	13396	3011	66	-	16473	11.08.10	20:00	49.86
असीमित Unrestricted	13396	3011	66	400	16873	11.08.10	20:00	49.86
पश्चिम क्षेत्र WESTERN REGION								
पंजीकृत Registered	29207	-	-	-	29207	25.08.10	21:00	49.79
आंकलित Computed	29102	3221	723	-	33046	26.08.10	20:00	49.29
असीमित Unrestricted	29102	3764	723	400	33989	26.08.1	20:00	49.29

VI	
माह अगस्त 2010 में अंतर क्षेत्र से पश्चिम क्षेत्र को विद्युत विनिमय	
Inter-Regional Exchange of Power in Western Region during Aug -10	
DESCRIPTION	Import (Mus)
Indian Energy Exchange (ER to WR)	202.98
Power Exchange of India (ER to WR)	84.18
Indian Energy Exchange (NR to WR)	76.18
ER (NTPC) to GUVNL	54.30
ER (NTPC) to MP PTCL	32.95
ER (NTPC) to CSEB	13.37
ER (NTPC) to MSEDCL	80.28
ER (NTPC) to D D	0.87
ER (NTPC) to D N H	1.34
DVC to MPPTCL (Long Term Open Access)	77.63
Hirakud to CSEB	1.32
SIKKIM to MSEB (IEXL)	13.92
TISCO to TPC MSEB (TPTCL)	14.10
Rihand (Hydro) to MPPTCL (Long Term Open Access)	3.41
Matathilla (Hydro) to MPPTCL (Long Term Open Access)	0.55
BSES(DTL) to MSEB (SCL)	0.67
BSES YM (DTL) to MSEB (SCL)	1.14
DESCRIPTION	Export(Mus)
JPAL CSEB to APPCC (LANCO)	0.14
RREL CSEB to APPCC (LANCO)	0.11
JPL to BESCO (PTC LTD)	0.72
TORRENT_GUVNL to BESCO (NVVNL)	0.46
TORRENT_GUVNL to BESCO (PTC LTD)	1.06
MPSEB to BSES YM (DTL) (LANCO)	0.13
GUVNL to NPCL (NPCL)	19.55
GUVNL to TNEB (PXIL)	0.28
BALCO CSEB to UPPCL (KISPL)	17.28
JBIL CSEB to UPPCL (KISPL)	0.61
SSPL CSEB to UPPCL (KISPL)	0.82
AIDCPL CSEB to BSES_RAJ (LANCO)	4.38
BALCO CSEB to BSES_RAJ (LANCO)	25.32
BPIL CSEB to BSES_RAJ (LANCO)	8.51
CSPL CSEB to BSES_RAJ (LANCO)	9.44
JPL to BSES_RAJ (JPL)	99.44
MPSEB to BSES_RAJ (LANCO)	20.71
MPSEB to BSES_RAJ (RETL)	47.11
MIEL CSEB to BSES_RAJ (LANCO)	19.69
MSPPL CSEB to BSES_RAJ (LANCO)	3.15
MIELMH CSEB to BSES_RAJ (LANCO)	10.64
MSPSPL CSEB to BSES_RAJ (LANCO)	4.01
MECBL CSEB to BSES_RAJ (LANCO)	4.77
REALISPAT CSEB to BSES_RAJ (LANCO)	6.32
RSIPIL CSEB to BSES_RAJ (LANCO)	3.19
SNIL CSEB to BSES_RAJ (LANCO)	7.45
SCPL CSEB to BSES_RAJ (LANCO)	2.61

DESCRIPTION	Export(Mus)
SBMPL CSEB to BSES_RAJ (LANCO)	4.85
VGL CSEB to BSES_RAJ (LANCO)	13.30
VIL CSEB to BSES_RAJ (LANCO)	3.17
JPL to BSES YM (DTL) (JPL)	95.50
MPSEB to BSES YM (DTL) (LANCO)	41.35
MPSEB to BSES YM (DTL) (RETL)	63.67
GANDHAR-LNG to HARIYANA (NVVNL)	0.22
KAWAS-RLNG to HARIYANA (NVVNL)	0.27
GUVNL to NPCL (NPCL)	15.23
CSEB to NDPL(DTL) (PTC LTD)	0.19
INDORAMA MSEB to NDPL(DTL) (SCL)	0.12
JPL to NDPL(DTL) (TPTCL)	46.04
MPSEB to NDPL(DTL) (PTC LTD)	8.81
CSEB to NDMC(DTL) (PTC LTD)	7.07
INDORAMA MSEB to NDMC(DTL) (SCL)	0.20
APL to PSEB (AEL)	2.06
APL GUVNL to PSEB (AEL)	47.14
GFL GUVNL to PSEB (TPTCL)	12.89
JPL to PSEB (LANCO)	58.42
MPSEB to PSEB (LANCO)	39.34
MPSEB to PSEB (PSEB)	54.77
MSEB to PSEB (NVVNL)	0.51
MSEB to PSEB (PSEB)	70.74
TPC MSEB to PSEB (TPTCL)	42.51
ACPCL CSEB to UT-CHANDIGARH (LANCO)	8.51
MIEL CSEB to UT-CHANDIGARH (LANCO)	18.62
MIELMH CSEB to UT-CHANDIGARH (LANCO)	2.66
BALCO CSEB to UPPCL (KISPL)	12.46
ISL CSEB to UPPCL (KISPL)	0.38
JBIL CSEB to UPPCL (KISPL)	0.34
MPSEB to UPPCL (MPPL)	88.43
SSPL CSEB to UPPCL (KISPL)	1.56
NET EXPORT TO ER	349.70
NET EXPORT TO NR	1246.41
NET EXPORT TO SR	534.39

दिनांक 31 | 08 | 2010 को राज्यानुसार संस्थापित क्षमता
INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS ON 31.08.2010

(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	1640.00	2577.50	0.00	4217.50	0.20	1793.39	6011.09
	Central(firm allo)	0.00	1508.89	424.27	559.32	2492.48	0.00	0.00	2492.48
	Total	772.00	7588.89	3894.49	559.32	12814.70	17.48	1823.29	14655.47
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	2335.00	180.00	0.00	2962.00	0.00	2282.55	5244.55
	Central(firm allo)	0.00	2003.05	2623.93	690.14	5317.12	0.00	0.00	5317.12
	Total	3331.84	11633.05	3715.93	690.14	19370.96	0.00	2533.28	21904.24
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	5575.00	2805.50	0.00	8827.50	0.20	4538.44	13366.14
	Central(firm allo)*	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	28803.15	8143.81	1840.00	46234.46	17.48	4849.93	51454.22

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 AUG -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
अगस्त Aug'09	13252	8138	4082	20465	357	13585	1210	47744
अगस्त Aug'10	14655	8281	4769	21904	381	13872	1375	51454
वृद्धि प्रतिशतमें % increase	10.59	1.75	16.84	7.03	7	2.11	13.7	7.77
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)								
अगस्त Aug'09	6082	3225	1297	10570	235	169	350	21930
अगस्त Aug'10	5186	3076	1785	9714	207	169	245	20476
असिमित आवश्यकता Unrestricted Requirement MUs/day								
अगस्त Aug'09	196	104	42	341	8	5	11	707
अगस्त Aug'10	167	99	58	313	7	5	8	661
ऊर्जा उपलब्धता Energy availability (MUs)								
अगस्त Aug'09	5958	2629	1248	8737	227	151	331	19283
अगस्त Aug'10	5096	2602	1702	8516	197	156	340	18688
ऊर्जा उपलब्धता Energy availability MUs/day								
अगस्त Aug'09	192	85	40	282	7	5	11	622
अगस्त Aug'10	164	84	55	275	6	5	11	603
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)								
अगस्त Aug'09	10179	5506	2934	19555	449	245	499	37060
अगस्त Aug'10	9116	5854	2828	16873	371	268	510	33989
प्रतिशत in%	-10.44	6.32	-3.61	-13.72	-17.39	9.39	2.20	-8.29
चरम मांग Peak Demand met (MW)								
अगस्त Aug'09	9586	4508	2795	13822	378	220	460	30113
अगस्त Aug'10	8928	4592	2776	13780	339	236	505	29207
प्रतिशत in%	-6.86	1.86	-0.68	-0.30	-10.32	7.27	9.78	-3.01
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)								
अगस्त Aug'09	-593	-998	-139	-5733	-71.00	-25.00	-39.00	-6947
प्रतिशत in%	-5.83	-18.13	-4.74	-29.32	-15.81	-10.20	-7.82	-18.75
अगस्त Aug'10	-188	-1262	-52	-3093	-32	-32	-5	-4782
प्रतिशत in%	-2.06	-21.56	-1.84	-18.33	-8.61	-11.94	-0.98	-14.07
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
अगस्त Aug'09	-123.73	-596.01	-48.98	-1832.94	-7.54	-18.60	-19.20	-2646.99
प्रतिशत in%	-2.03	-18.48	-3.78	-17.34	-3.21	-10.98	-5.48	-12.07
अगस्त Aug'10	-90.00	-474.00	-83.00	-1198.35	-10.00	-13.56	94.66	-1787.60
प्रतिशत in%	-1.74	-15.41	-4.65	-12.34	-4.83	-8.00	38.60	-8.73

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

Voltage Profile of major Sub-Stations for the month of Aug-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	2.25	97.75	438	400	
	असोज Asoj	400	0.00	0.00	100.00	428	411	
	कराड Karad	400	0.00	10.22	89.78	436	396	
	कासोर Kasor	400	0.00	6.79	93.21	430	409	
	इन्दौर Indore	400	0.00	25.09	74.91	434	383	
	इटारसी Itarsi	400	0.00	6.87	93.13	434	400	
	जेतपुर Jetpur	400	0.00	38.00	62.00	426	385	
	भिलाई Bhilai	400	0.00	33.31	66.69	421	403	
	बिना Bina	400	0.74	64.43	34.83	431	383	
	ग्वालियर Gwalior	400	3.24	65.48	31.28	431	364	

A) Inter-Regional Transfer Of Energy For The Month Of Aug- 2010	
EXPORT	Mus
NET EXPORT TO ER	349.70
NET EXPORT TO NR	1246.41
NET EXPORT TO SR	534.39

Annexure-v(2)

B) INTRA- REGIONAL ENERGY EXCHANGES(In Mus)	
DESCRIPTION	Mus
Mundra APL to Gujarat (LTOA)	9.31
NSPCL CSEB to DD (BILATERAL)	46.85
NSPCL CSEB to DD (DD)	19.55
NSPCL CSEB to DNH (BILATERAL)	66.79
NSPCL CSEB to DNH (DNH)	20.28
JPL to MPSEB (MPSEB)	27.13
BALCO CSEB to MSEB (IEXL)	11.55
JPL to RINFRA MSEB (JPL)	121.68
MPSEB to RINFRA MSEB (RINFRA MSEB)	51.94
GUVNL to TPC MSEB (PXIL)	1.20
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 (RINFRA MSEB)	49.16
GUVNL to TPC MSEB (PXIL)	7.20

(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	LANCO
(366.351)	(507.879)	(15.451)	(104.00)	295.683	.116		8.095	(29.434)	(13.481)

(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
(171.057)	(194.183)	0	(5.547)	28.672	0	0	0	0

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

(F) Regulatory measures (If any) : Nil

I AUFLS OPERATION DURING AUG- 2010

In the month of Aug- 2010 , frequency remained below 49.5 Hz for 8.19% of the time .
 In Maharashtra UF relay operation occurred on 13 occasions, in Gujarat UF relay operation occurred on 14 occasions, in Madhya Pradesh UF relay operation occurred on 12 occasions and in Chhattisgarh UF relay operation occurred on 3 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	6th,9th,10th,12th,13th,16th,20th,26th	1 -122	550	Nil
Gujarat	6th,9th,10th,12th,13th,15th,20th,26th	23-77	220	Nil
Madhya Pradesh	6th,9th,10th,12th,13th,16th,26th	15-79.9	152	20th
CSEB	10th,26th	3	38	6th,9th,12th,13th,16th, 20th

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.

4 PROGRESS OF ONGOING GENERATION PROJECT IN WESTERN REGION

Sr.No.	Name of the power project	Unit No.	Capacity(MW)	commissionig schedule	Remarks
A	GUJARAT				
1	Sikka TPP extn	4	250	Sep-10	
2	Ukai TPS extn	6	490	Feb-11	
3	Pipavav CCPP-GPCL & GSPC joint venture	block 1 block 2	350 350	Sep-10 Mar-11	
4	Mundra TPP ph-2 (Adani power)	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	
	OTHER PROJECTS				
1	Gujarat lignite NLC&GPCL joint venture	Stage 1 Stage 2	1500 500	2011-12 2012-13	
2	Pipavav TPP - Torrent power		1000	2011-12	
3	Mundra STPP (Adani power ltd)	1	660	Jan-11	
		2	660	Jul-11	
		3	330	Oct-10	
		4	330	Nov-10	
B	MADHYA PRADESH				
1	Amarkantak TPS	2	500	Apr-11	
2	Satpura TPS ext.	10 11	250 250	Nov-10 Mar-11	
	OTHER PROJECTS				
1	Maheshwar HEP		400	2010-2011	
2	Malwa TPP	1	500	Dec-10	
C	CHATTISGARH				
2	Marwa TPP	1 2	500 500	Sep-12 Nov'12	
3	Korba west -III TPP	1	500	Jun-12	
	OTHER PROJECTS				
1	Bhaiyathan TPP Phase 1	1	500	Dec-12	
		2	500	Aug-13	
2	IFFCO	1	660	Aug-12	
			660	Dec-12	
D	MAHARASHTRA				
1	Khaperkheda TPS Extn.	1	500	Mar-11	
2	Bhusawal Extn. TPP	1 2	500 500	Sep-10 Sep-10	
		4	500	Mar-11	
3	JSW Ratnagiri TPP (JSW Ltd.)	1 2 3 4	300 300 300 300	24.08.10 Sep'10 Dec'10 Mar'11	
	OTHER PROJECTS				
1	Koradi TPS extn	1	800	Oct-12	
2	Dhopawe TPS	1 2	800 800	Nov-11 May-12	
3	Utran CCPP	block 2	340	Oct-10	
4	Koradi TPS extn.(replacement)	1	800	Apr-12	
5	Chandrapur TPS Extn	1 2	500 500	Dec-11 May-12	
E	CENTRAL SECTOR				
1	Sipat TPP	1 2 3	660 660 660	Nov'10 May'11 Nov'11	
2	Korba STPS - III	7	500	Sep-10	
3	Mauda TPP	1 2	500 500	2011-12 2012-13	

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	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
	II)220kV Lines			
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	Oct'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)	Madhya Pradesh			
	I) 400kV Lines			
	II) 220kV Lines			
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
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

PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR

	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
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	2010-11	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	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 aaquisition under progress
D)	Maharashtra			
I) 400kV Lines				
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
II) 220kV Lines				
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
Sl.No	POWERGRID			
	765 kV & 400kv			
E)	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 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
For Regional strengthening in southern Maharashtra to be implemented through IPTC Route by WR transmission				
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
For Regional strengthening in Gujarat to be implemented through IPTC Route by WR transmission (Guj) Pvt.				
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	Dec'10	
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	*	

PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR

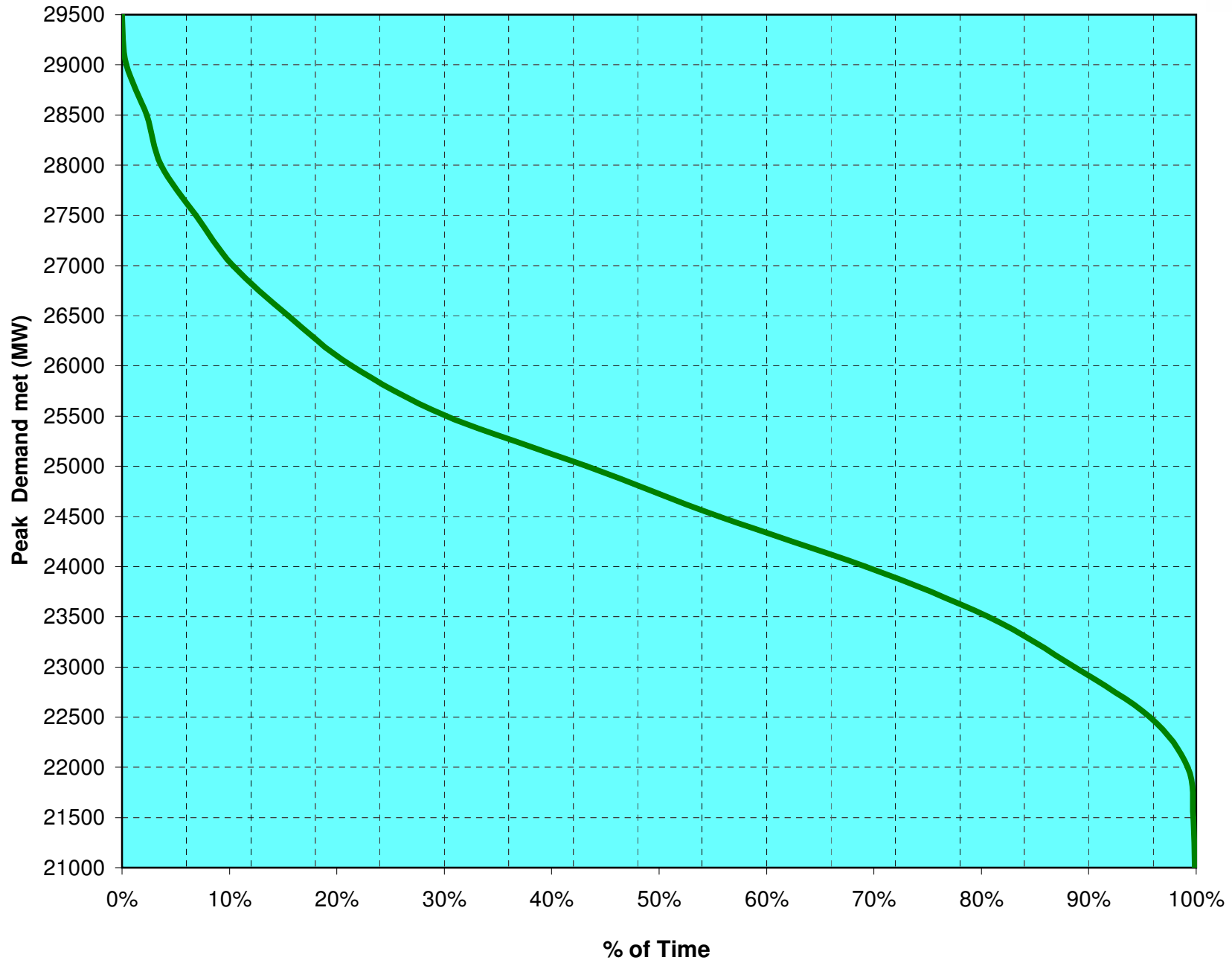
	Name of transmission line	<u>Length in ckt km.</u>	Commissioning Schedule	Remarks
WR strengthening system-V				
21	400 KV Vapi- Navi Mumbai D/C	258	Mar'11	Severe ROW problem
22	Vapi- Khadoli 220kv D/C	56	Nov'10	Severe ROW problem
23	Lilo of L'khand-Kalwa S/C at Navi Mumbai	10	Mar'11	Severe ROW problem
WR strengthening system-VI				
24	400 KV Dehgam Pirana D/C	92	Nov`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 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
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	Sep`10	Under Progress
2	400 KV Raigarh-Rourkela D/C	420	Oct'10	Under Progress
3	400 KV Raigarh-Raipur	440	Sep'10	Under Progress

Power system Operation Corporation Ltd.

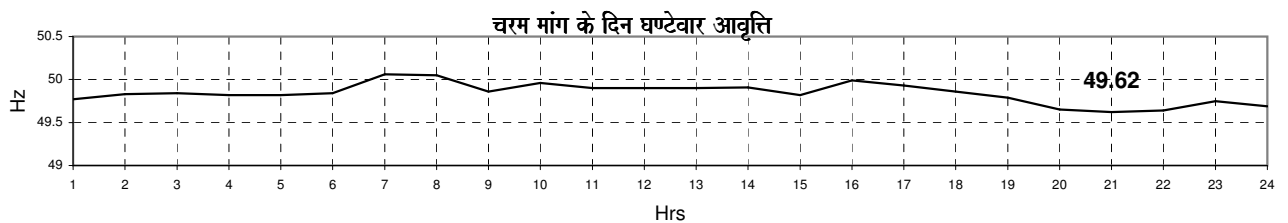
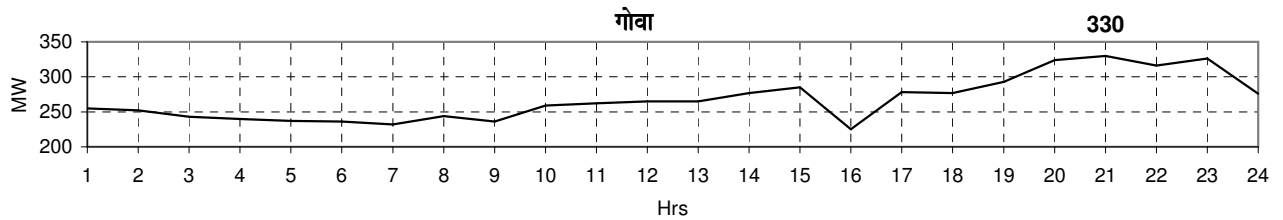
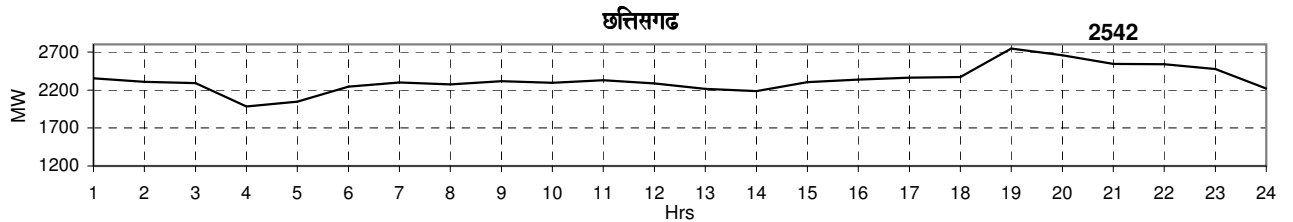
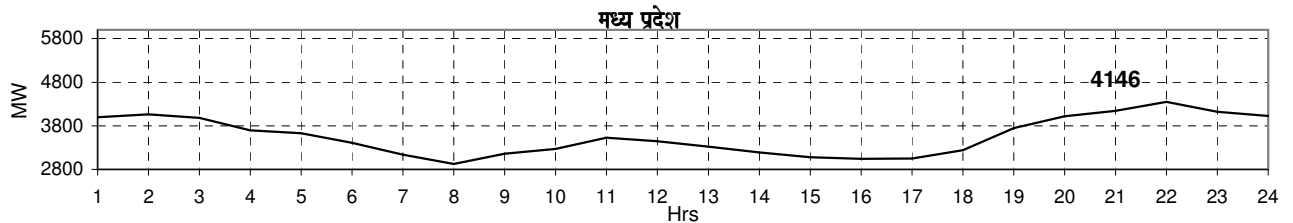
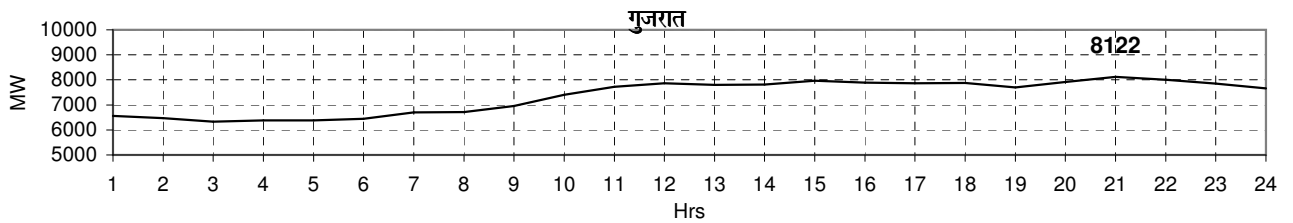
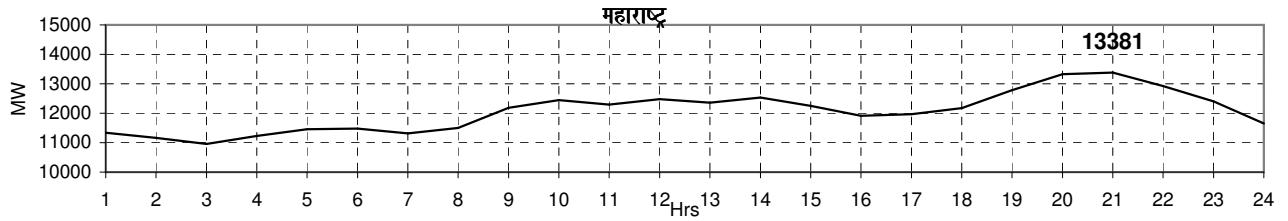
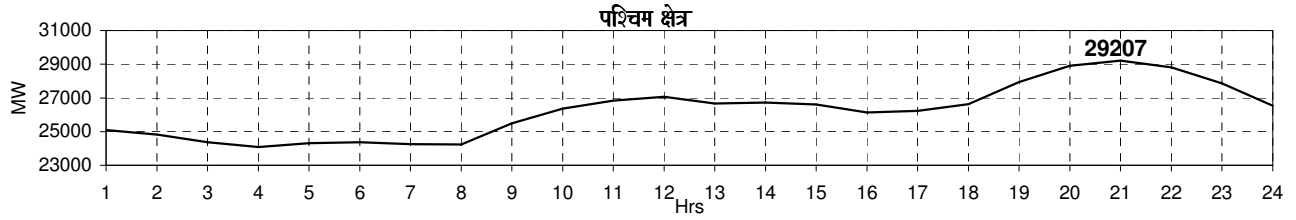
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Western Regional Despatch Centre

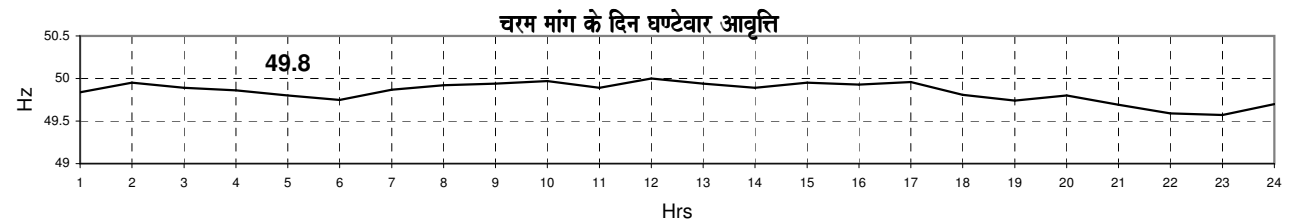
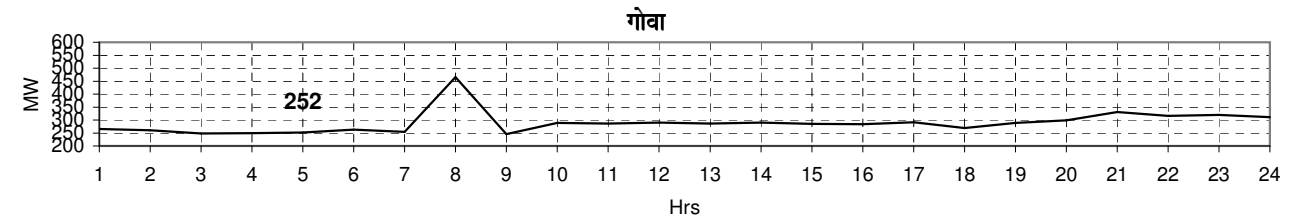
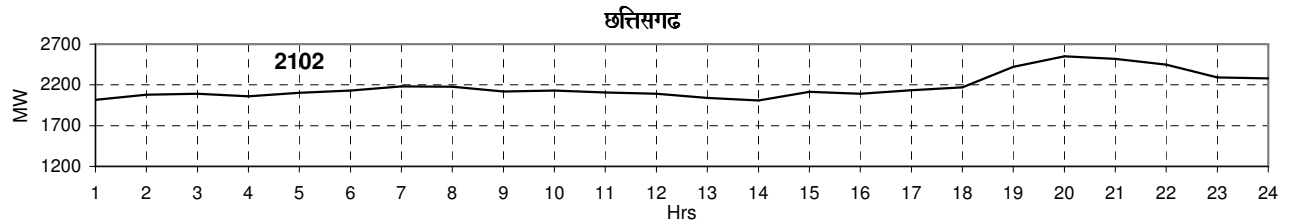
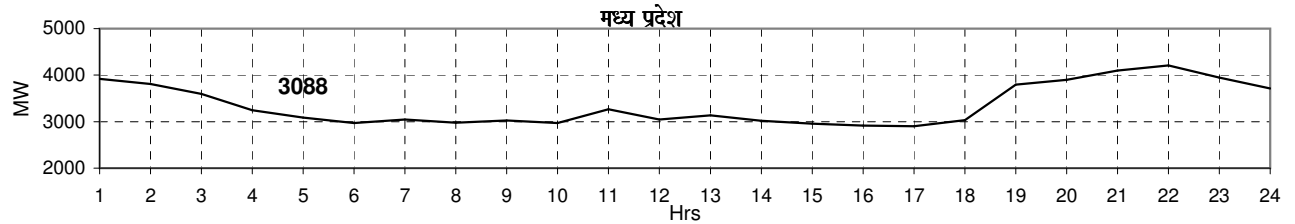
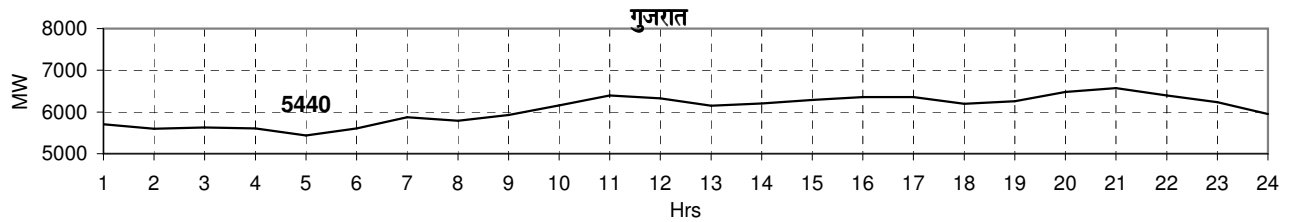
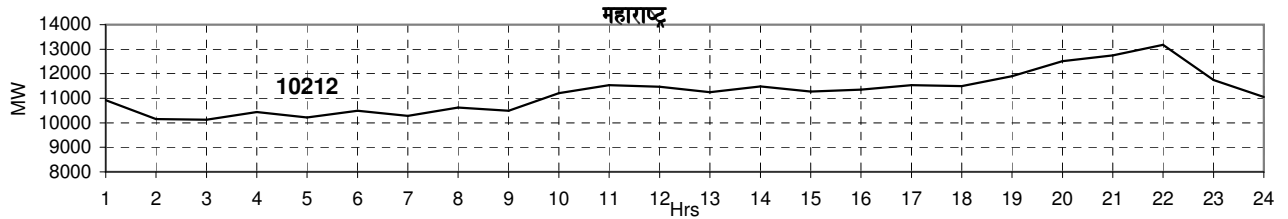
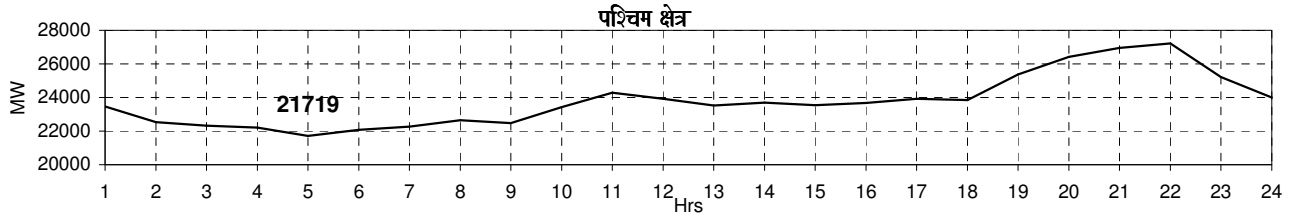
LOAD DURATION CURVE (Aug-2010) Max.demand met=29207 MW Min.demand = 20209 MW



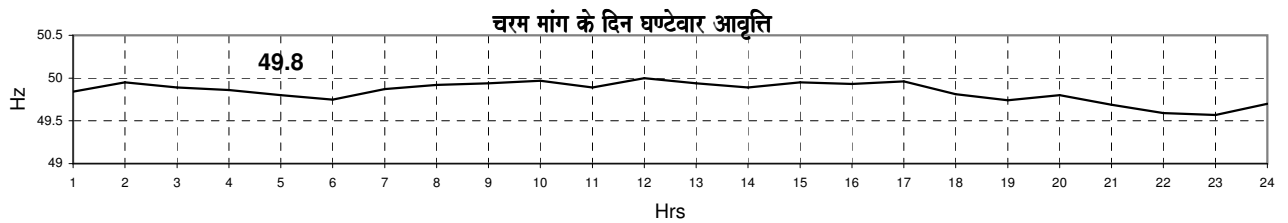
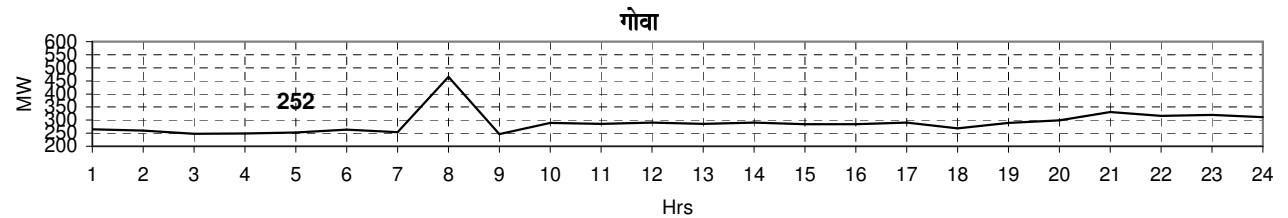
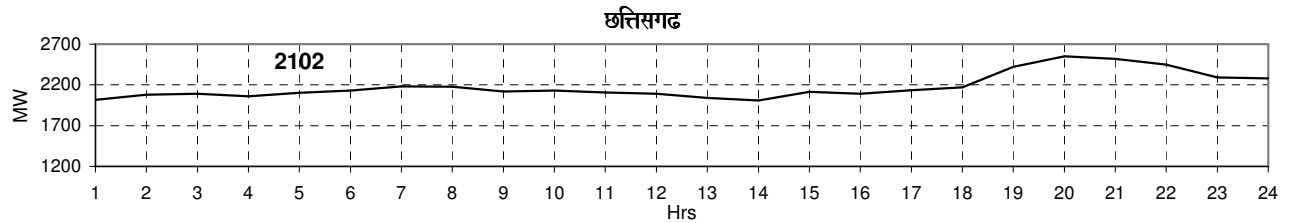
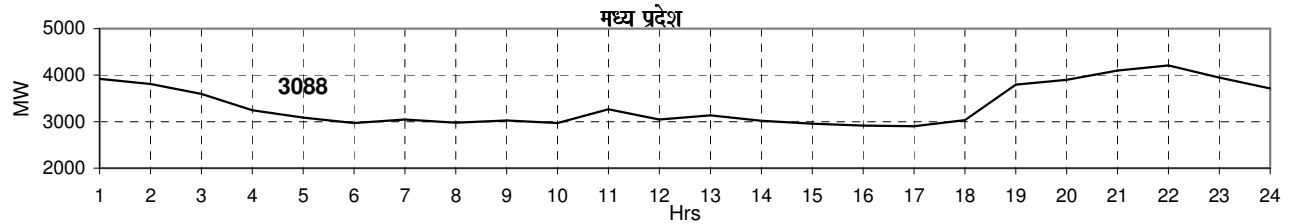
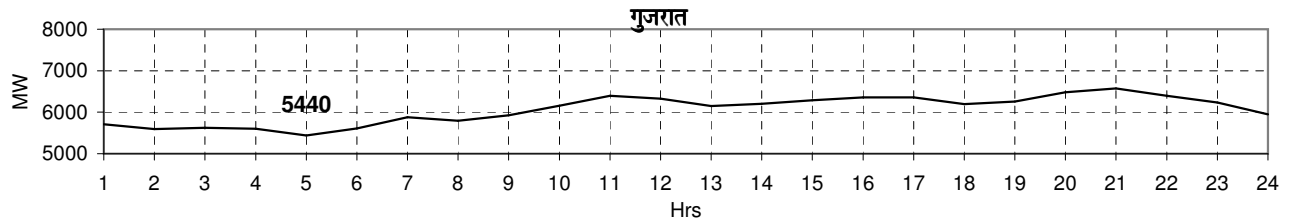
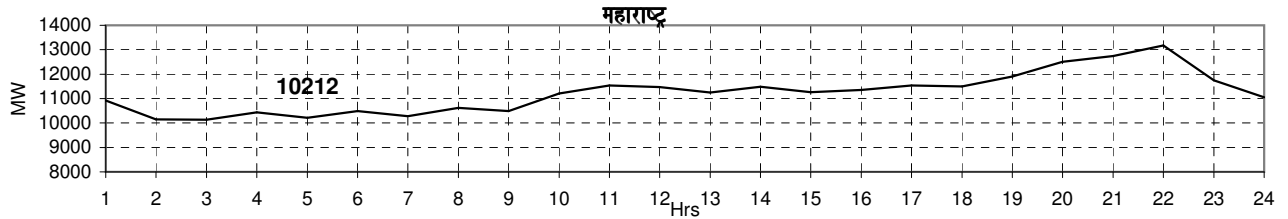
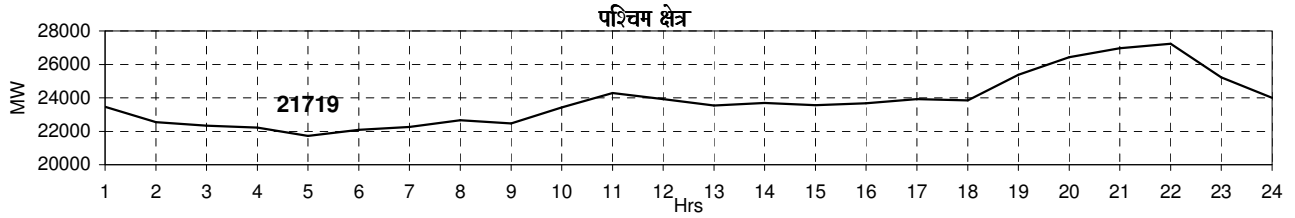
पश्चिम क्षेत्र का चरम भार दिन के प्रतिघंटा भार वक्र
 HOURLY DEMAND CURVES ON REGIONAL PEAK DAY 28.08.2010



पश्चिम क्षेत्र का न्यूनतम भार दिन के प्रतिघंटा भार वक्र
 HOURLY MIN.DEMAND CURVES ON REGIONAL PEAK DAY 04.08.2010



पश्चिम क्षेत्र का न्यूनतम भार दिन के प्रतिघंटा भार वक्र
 HOURLY MIN.DEMAND CURVES ON REGIONAL PEAK DAY 04.08.2010



NEW GRID FREQUENCY DURATION CURVE FOR Aug' 2010

