



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

System Operation Report Of Western Region For the month of Nov 2010

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(पावरग्रिड की एक पूर्ण स्वामित्व वाली कंपनी)

पश्चिम क्षेत्रीय भार प्रेषण केन्द्र

मुंबई

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 NOV 2010**

A)SUMMARY REPORT

I)IMPORTANT EVENTS

a) COMMISSIONING OF NEW GENERATING UNITS

SL.NO.	CONSTITUENT	UNIT NAME	UNIT NO	CAPACITY(MW)	DATE
1	APL	Mundra	IV	330	24/11/10
2	NTPC	KSTPS	VII	500	25/11/10

b) COMMISSIONING OF NEW TRANSMISSION LINES

NIL

c) COMMISSIONING OF NEW SUBSTATIONS

NIL

d)COMMISSIONING OF NEW LINE / BUS REACTORS

SL.NO.	CONSTITUENT	STATION NAME	KV RATIO	CAPACITY(MVAR)	DATE
1	MSEB	KALWA (ICT)	400/220	500	30/11/2010

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

NIL

i) Grid Separations **NIL**

ii) Grid Disturbances **NIL**

माह नवम्बर 2010 में पश्चिम क्षेत्र का निष्पादन डाटा

II Performance of Western Regional Grid during Nov -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	1091.31	1049.21	-42.1	0	.815
2	मध्य प्रदेश Madhya Pradesh	1629	1688.5	59.5	0	.706
3	महाराष्ट्र Maharashtra	2167.84	2095.16	-72.68	0	.573
4	छत्तिसगढ Chhattisgarh	-407.68	-500.07	-92.39	0	.288
5	गोवा Goa	194.89	190.88	-4.01	0	.055
6	दमन और दीव D&D	166.18	152.21	-13.97	0	.076
7	दादर नगर हवेली DNH	328.74	276.38	-52.36	0	.315
8	कुल TOTAL	5170.28	4952.27	-218.01	0	2.82

आवृत्ति रूपरेखा

III a. Frequency Profile

MAXIMUM FREQUENCY(Inst.):	50.73 HZ
आधिकतम आवृत्ती एकेकृत :	
Minimum frequency(Inst)	49.12 HZ
न्यूनतम आवृत्ती एकेकृत :	
Average frequency	50.00 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	0.01	0.48	86.78	12.73	0.00

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

a. विद्युत पूर्ति की स्थिति Power Supply Position

	NOV-10			APR -10 TO NOV-10		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
Gujarat	5644	5292	6.23	48961.82	46145.69	5.75
MPSEB	4499	3479	22.67	28807.10	23517.39	18.36
CSEB	1467	1462	0.32	13503.02	13377.54	0.93
Maharashtra	9390	8713	7.20	84906.30	72829.31	14.22
Goa	208	205	1.51	1741.21	1650.87	5.19
D&D	161	144	10.85	1295.90	1168.35	9.84
DNH	334	333	0.22	1945.95	1864.69	4.18
Western Region	21703	19629	9.56	181062.59	160431.45	11.39

b. Peak Demand / Demand Met(MW)

	NOV-10			APR -10 to NOV -10		
	Requirement (MW)	Availability (MW)	Shortage (%)	Requirement (MW)	Availability (MW)	Shortage (%)
Gujarat	10621	9668	8.97	11296	10344	8.43
MPSEB	8242	7864	4.58	8242	7864	4.59
CSEB	2437	2429	0.33	3075	2922	4.98
Maharashtra	18378	14569	20.72	20308	15945	21.48
Goa	374	343	8.22	544	453	16.73
D&D	275	246	10.47	291	252	13.40
DNH	515	514	0.19	526	514	2.28
Western **Region	39844	33643	15.56	41080	34339	16.41

V	
माह नवम्बर 2010 में अंतर क्षेत्र से पश्चिम क्षेत्र को विद्युत विनिमय	
Inter-Regional Exchange of Power in Western Region during NOV -10	
DESCRIPTION	Import (Mus)
Indian Energy Exchange (ER to WR)	11.33
Power Exchange of India (ER to WR)	2.93
ER (NTPC) to GUVNL	46.42
ER (NTPC) to MP PTCL	40.11
ER (NTPC) to CSEB	16.27
ER (NTPC) to MSEDCL	34.12
ER (NTPC) to GOA	0.00
ER (NTPC) to D D	1.06
ER (NTPC) to D N H	1.63
DVC to MPPTCL (Long Term Open Access)	50.63
Hirakud to CSEB	1.28
NGLD to MPSEB (MPSEB)	11.72
TRIPURA to MSEB (NVVNL)	6.54
WBSEB to MSEB (NVVNL)	7.03
TATA HALDIA(WB) to TPC MSEB (TPTCL)	0.79
TPCH WBSEB to TPC MSEB (TPTCL)	19.08
Rihand (Hydro) to MPPTCL (Long Term Open Access)	1.40
Matathilla (Hydro) to MPPTCL (Long Term Open Access)	4.51
BSES_RAJ to MPSEB (MPSEB)	1.90
BSES_RAJ to MPSEB (RETL)	30.34
BSES(DTL) to MPSEB (MPSEB)	0.28
BSES YM (DTL) to MPSEB (RETL)	31.39
PSEB to MPSEB (MPSEB)	83.54
UPPCL to MPSEB (MPPL)	34.57
BSES YM (DTL) to MSEB (RETL)	29.38
PSEB to MSEB (MSEB)	6.25
DESCRIPTION	Export(Mus)
CSEB to TNEB (PXIL)	2.51
MSEB to TNEB (IEXL)	2.51
Indian Energy Exchange (WR to NR)	103.47
CSEB to JK (NVVNL)	17.14
GUVNL to NPCL (NPCL)	32.29
JPL to NPCL (JPL)	12.42
CSEB to RPPC (NVVNL)	26.06
JPL to RPPC (NVVNL)	57.28
MIEL CSEB to RPPC (NVVNL)	12.03
MIELMH CSEB to RPPC (NVVNL)	6.00
HPGCL to TNEB (PTC LTD)	0.09
HARIYANA to TNEB (PTC LTD)	1.04
JPL to UT-CHANDIGARH (TPTCL)	8.57

DESCRIPTION	Export(Mus)
Indian Energy Exchange (WR to SR)	82.76
JPL to BESCO (PTC LTD)	67.89
LAMKPL to BESCO (PTC LTD)	184.68
JPL to KSEB (JPL)	38.12
NSPCL CSEB to SAIL-SLM (SAIL-SLM)	5.80
BALCO CSEB to TNEB (IEXL)	5.82
CSEB to TNEB (PTC LTD)	57.35
CSEB to TNEB (PXIL)	77.05
GFL GUVNL to TNEB (TPTCL)	1.45
HPGCL to TNEB (PTC LTD)	0.09
HARIYANA to TNEB (PTC LTD)	0.99
JPL to TNEB (PTC LTD)	7.54
JPL to TNEB (PXIL)	7.20
MSEB to TNEB (IEXL)	0.34
WBSEB to TNEB (PTC LTD)	0.93
WBSEB to TNEB (PXIL)	1.26
NET EXPORT TO ER	130.44
NET EXPORT TO NR	94.84
NET EXPORT TO SR	532.46

PEAK DEMAND FOR NOV.2010

State	Catered	UNSCHLS +SCHLS	FC	PC	Total	Date	Time	Freq.
दिव दमण DD								
पंजीकृत Registered	246	-	-	-	246	24.11.10	19:00	49.91
दादरा नगर हवेली DNH								
पंजीकृत Registered	520	-	-	-	520	25.11.10	16:00	49.92
गुजरात GUJARAT								
पंजीकृत Registered	9751	-	-	-	9751	01.11.10	19:00	49.98
आंकलित Computed	9751	932	7	-	10690	01.11.10	19:00	49.98
असीमित Unrestricted	9751	932	7	40.00	10730	01.11.10	19:00	49.98
छत्तीसगढ रा .वि.बोर्ड Chhattisgarh								
पंजीकृत Registered	2429	-	-	-	2429	15.11.10	19:00	50.08
आंकलित Computed	2429	0	-7		2422	15.11.10	19:00	50.08
असीमित Unrestricted	2429	17	-7	0	2439	15.11.10	19:00	50.08
मध्य प्रदेश रा .वि.बोर्ड Madhy Pradesh								
पंजीकृत Registered	7866	-	-	-	7866	05.11.10	19:00	49.95
आंकलित Computed	7866	0	14	-	7880	05.11.10	19:00	49.95
असीमित Unrestricted	6796	1197	36	0	8028	03.11.10	22:00	49.85
महाराष्ट्र रा .वि.बोर्ड-MAHA-RASHTRA								
पंजीकृत Registered	14918	-	-	-	14918	03.11.10	19:00	49.70
आंकलित Computed	14122	3826	30	-	17978	02.11.10	19:00	49.94
असीमित Unrestricted	14122	3826	30	400	18378	02.11.10	19:00	49.94
पश्चिम क्षेत्र WESTERN REGION								
पंजीकृत Registered	33643	-	-	-	33643	03.11.10	20:00	49.86
आंकलित Computed	33643	3921	165	-	37729	03.11.10	20:00	49.86
असीमित Unrestricted	32789	6331	69	400	39589	02.11.10	19:00	49.94

दिनांक 30 | 11 | 2010 को राज्यानुसार संस्थापित क्षमता

B) INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS ON 30.11.2010

(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	1821.14	6038.84
	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	1851.04	14683.22
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	672.00	0.00	10851.84	0.00	257.73	11109.57
	Private	447.00	2470.00	180.00	0.00	3097.00	0.00	2316.15	5413.15
	Central(firm allo)	0.00	2003.05	2623.93	690.14	5317.12	0.00	0.00	5317.12
	Total	3331.84	11768.05	3475.93	690.14	19265.96	0.00	2573.88	21839.84
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	1564.72	0.00	23647.72	17.28	318.49	23983.49
	Private	447.00	5710.00	2805.50	0.00	8962.50	0.20	4599.79	13562.49
	Central(firm allo)*	1520.00	5675.30	3336.68	1611.86	12143.84	0.00	0.00	13871.00
	Unallocated	0.00	950.35	196.91	228.14	1375.40	0.00	0.00	1375.40
	Total	7447.50	28938.15	7903.81	1840.00	46129.46	17.48	4918.28	51417.57

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 NOV -2010

1)

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
नवम्बर Nov'09	13564	8324	4435	20859	381	13871	1375	49027
नवम्बर Nov'10	14683	8281	4769	21840	381	13872	1375	51418
वृद्धि प्रतिशतमें % increase	8.25	-0.52	7.53	4.70	0	0.00	0.0	4.88
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)								
नवम्बर Nov'09	6494	3669	600	9948	252	155	334	21453
नवम्बर Nov'10	5644	4499	1467	9390	208	161	334	21703
असिमित आवश्यकता Unrestricted Requirement MUs/day								
नवम्बर Nov'09	216	122	20	332	8	5	11	715
नवम्बर Nov'10	188	150	49	313	7	5	11	723
ऊर्जा उपलब्धता Energy availability (MUs)								
नवम्बर Nov'09	5989	3199	590	8351	249	147	334	18859
नवम्बर Nov'10	5292	3479	1462	8713	205	144	333	19629
ऊर्जा उपलब्धता Energy availability MUs/day								
नवम्बर Nov'09	200	107	20	278	8	5	11	629
नवम्बर Nov'10	176	116	49	290	7	5	11	654
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)								
नवम्बर Nov'09	10156	7098	2643	19095	469	230	458	39208
नवम्बर Nov'10	10621	8242	2437	18378	374	275	515	39844
प्रतिशत in%	4.58	16.11	-7.79	-3.76	-20.32	19.47	12.45	1.62
सम मांग Peak Demand met (MW)								
नवम्बर Nov'09	9264	6153	2557	14456	422	218	458	32290
नवम्बर Nov'10	9668	7864	2429	14569	343	246	514	33643
प्रतिशत in%	4.36	27.81	-5.01	0.78	-18.72	12.84	12.23	4.19
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)								
नवम्बर Nov'09	-892	-945	-86	-4639	-47.00	-12.00	0.00	-6918
प्रतिशत in%	-8.78	-13.31	-3.25	-24.29	-10.02	-5.22	0.00	-17.64
नवम्बर Nov'10	-953	-378	-8	-3809	-31	-29	-1	-6201
प्रतिशत in%	-8.97	-4.58	-0.33	-20.72	-8.22	-10.47	-0.19	-15.56
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
नवम्बर Nov'09	-504.99	-469.95	-10.16	-1597.34	-3.11	-8.64	0.00	-2594.21
प्रतिशत in%	-7.78	-12.81	-1.69	-16.06	-1.23	-5.56	0.00	-12.09
नवम्बर Nov'10	-351.78	-1019.73	-4.63	-676.38	-3.15	-17.51	-0.74	-2074.00
प्रतिशत in%	-6.23	-22.67	-0.32	-7.20	-1.51	-10.85	-0.22	-9.56

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

Voltage Profile of major Sub-Stations for the month of NOV -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	16.46	83.54	434	394	
	असोज Asoj	400	0.00	0.00	100.00	429	405	
	कराड Karad	400	0.00	13.99	86.01	435	397	
	कासेर Kasor	400	0.14	9.96	89.90	429	406	
	इन्दौर Indore	400	0.07	74.29	25.64	425	385	
	इटारसी Itarsi	400	0.00	43.19	56.81	431	390	
	जेतपुर Jetpur	400	0.37	65.35	34.28	429	372	
	भिलाई Bhilai	400	0.00	36.67	63.33	425	397	
	बिना Bina	400	0.04	59.33	40.63	432	392	
	ग्वालियर Gwalior	400	0.02	35.63	64.35	432	384	

A) Inter-Regional Transfer Of Energy For The Month Of NOV- 2010	
EXPORT	Mus
NET EXPORT TO ER	130.44
NET EXPORT TO NR	94.84
NET EXPORT TO SR	532.46

B) INTRA- REGIONAL ENERGY EXCHANGES(In Mus)	
DESCRIPTION	Mus
NSPCL CSEB to DD (BILATERAL)	45.03
NSPCL CSEB to DD (DD)	24.41
NSPCL CSEB to DNH (BILATERAL)	64.35
NSPCL CSEB to DNH (DNH)	27.06
JPL to MPSEB (MPSEB)	39.20
BALCO CSEB to MSEB (NVVNL)	11.83
JPL to MSEB (NVVNL)	69.60
JBIL CSEB to MSEB (RPGPTCL)	2.53
MCPL MPSEB to MSEB (NVVNL)	4.45
MIEL CSEB to MSEB (NVVNL)	23.94
MIELMH CSEB to MSEB (NVVNL)	11.97
JPL to RINFRA MSEB (JPL)	129.70

(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
(182.891)	(25.529)	7.492	(255.769)	144.046	-	-	-	(52.130)	(1.013)

(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
(19.069)	(0.333)	-	(20.722)	2.647	0	0	0	(0.66)

(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 NOV - 2010

**In the month of NOV- 2010 , frequency remained below 49.5 Hz for .49% of the time .
During the month frequency did not touch 48.8 Hz .**

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	Nil	Nil	550	Nil
Gujarat	Nil	Nil	220	Nil
Madhya Pradesh	Nil	Nil	152	Nil
CSEB	Nil	Nil	38	Nil

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	Dec'10	work under progress,ROW Problems
2	Tappar(Varsana)-Hadala	318	Feb`11	work under progress,ROW Problems
3	Essar - Hadala	226	Feb`11	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	Feb`11	work under progress, ROW Problem
2	220 KV D/C GSEG(Hazira)-Kosamba line	124	Feb`11	Work under progress
3	220 KV D/C GPPC-Dhokadva line	100	Dec`10	Work under progress
4	LILO of one circuit of 220 KV D/C Savarkundla-Otha line at GPPC	93	Dec'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	Jan'11	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	Dec'10	Work under progress
3	220 KV DCSS Kheedmara - 220KV s/s Bentara + 1 no. bay at Khedmara & 1 no. at Betemara	50.9	Dec'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	Dec`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	Feb'11	Excavation work in progress
2	Beed - Patoda D/C	45	March'10	Work in progress
3	Parli TPS-Nanded M/C line (Waghala)	90.3	Feb'11	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	Dec'10	Work still in progress
6	220 KV D/C on D/C Tower from Jeur-Paranda	30	Dec'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	Jan'11	Work in progress
8	220 KV Paras-Balapur D/C on M/C	5.61	Jan'11	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	March'11	Stringing commenced from April'10
2	400 KV Wardha(PG)-Parli(PG) D/C(quad.)	674	March`11	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	Jan'11	Work affected due to ROW problem
5	400 KV Parli (MSEB)-Parli (PG) D/C	14	March'11	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	Forest NOC obtained For PTCC joint inspection completed
7	400 KV Pune (PG)-A'bad(MSEB) D/C	450	Apr'11	All cases submitted clearance received
8	400 KV Parli(PG)-Pandharpur/Solapur D/C	272	May'11	Forest clearance received
9	400 KV Solapur(PG)-Kolhapur(MSEB)	438	May'11	All cases submitted for forest clearance and clearance received
10	LILO of L'khand(MSEB)-Kalwa(MSEB) at Pune(PG) D/C	2.4	Feb'11	Forest clearance not required
11	Lilo of Solapur(MSEB)-Karad(MSEB) D/C at Solapur (PG)	52	May'11	Forest clearance submitted and received
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	Forest clearance not required
14	400 KV Ranchodpura(GEB)-Zerda(GEB) D/C	280	Dec'10	Forest clearance not required
For Regional strengthening in Northern Madhya Pradesh				
15	400 KV Korba(NTPC)-Birsinghpur(MPSEB) D/C	453	Feb`11	Ist stage forest clearance received
16	400 KV Birsinghpur-Damoh (PG) D/C	452	Dec'10	Work in 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	*	

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	Dec'11	Severe ROW problem
22	Vapi- Khadoli 220kv D/C	56	Dec'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 sanctuary portion clearance awaited
30	400 KV D/C Mundra-Bachchauranchodpur	764	Dec'11	Wild life sanctuary portion clearance awaited
31	400 KV D/C Mundra-Bachchaur-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	June'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	Dec'10	Under Progress
2	400 KV Raigarh-Rourkela D/C	420	Dec'10	Under Progress

PROGRESS OF ONGOING GENERATION PROJECT IN WESTERN REGION

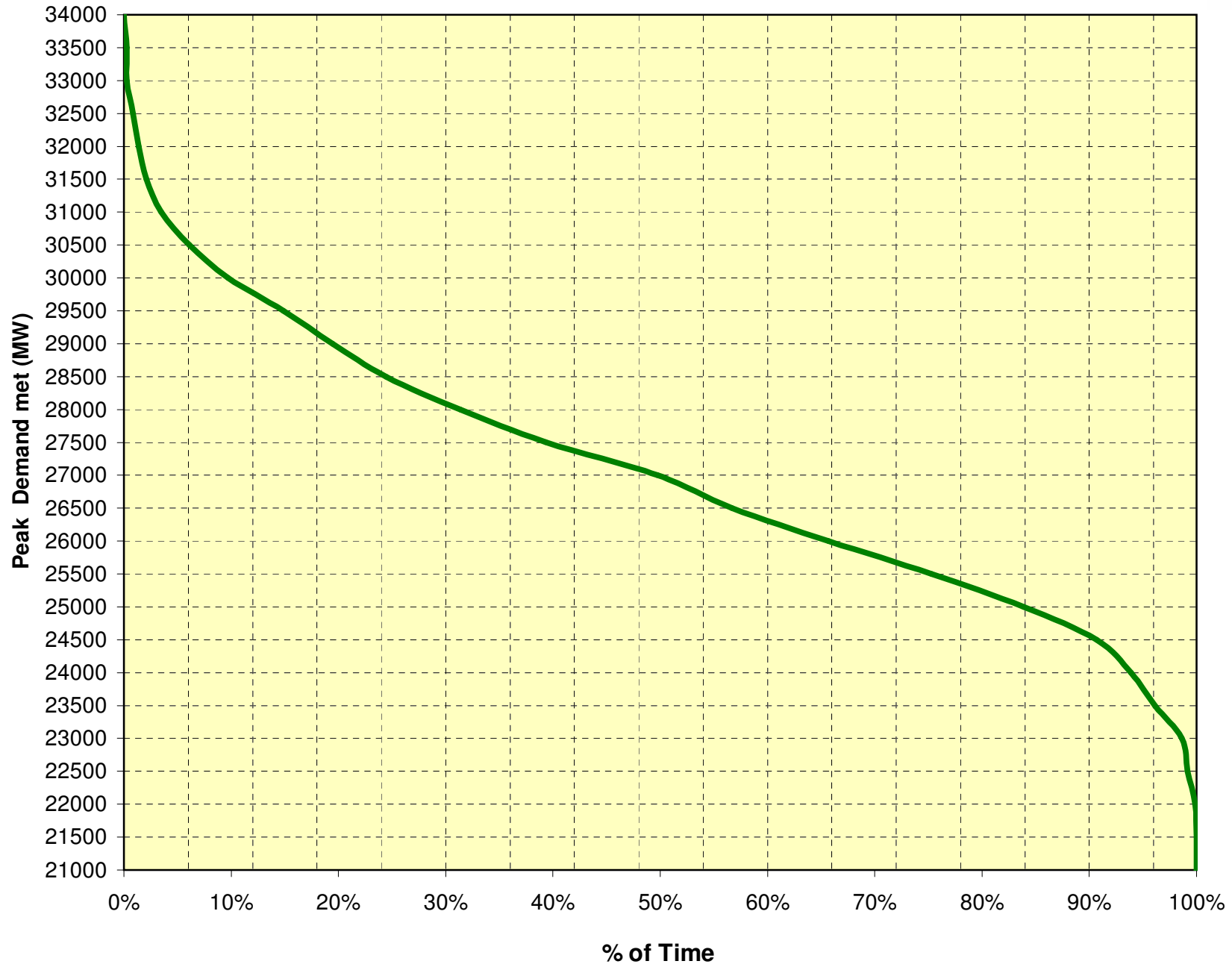
Sr.No.	Name of the power project	Unit No.	Capacity (MW)	commissionig schedule
A				
<u>GUJARAT</u>				
1	Sikka TPP extn	4	250	Mar-11
2	Ukai TPS extn	6	490	Feb-11
3	Pipavav CCPP-GPCL & GSPC joint venture	block 1	350	Dec-10
		block 2	350	Mar-11
4	Mundra TPP ph-2 (Adani power)	4	330	24/11/10
5	Mundra ultra mega TPP (TATA)	1	800	Sep-11
		2	800	Sep-12
6	Hazira CCPP Expansion GSEG	GT+ST	350	Mar-11
OTHER PROJECTS				
1	Gujarat lignite NLC&GPCL joint venture	Stage 1	1500	2011-12
		Stage 2	500	2012-13
2	Pipavav TPP - Torrent power		1000	2011-12
3	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	Jan-11
		11	250	Mar-11
OTHER PROJECTS				
1	Maheshwar HEP		400	2010-2011
2	Malwa TPP	1	500	Dec-10
C				
<u>CHATTISGARH</u>				
2	Marwa TPP	1	500	Sep-12
		2	500	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				
<u>MAHARASHTRA</u>				
1	Khaperkheda TPS Extn.	1	500	Mar-11
		4	500	Mar-11
2	JSW Ratnagiri TPP (JSW Ltd.)	2	300	Jan'11
		3	300	Feb'10
		4	300	Mar'11
OTHER PROJECTS				
		1	800	Oct-12
1	Koradi TPS extn	1	800	Nov-11
2	Dhopawe TPS	2	800	May-12
		block 2	340	Apr-11
3	Utran CCPP	1	800	Apr-12
4	Koradi TPS extn.(replacement)	1	500	Dec-11
5	Chandrapur TPS Extn	2	500	May-12
E				
<u>CENTRAL SECTOR</u>				
		1	660	Dec'10
1	Sipat TPP	2	660	May'11
		3	660	Nov'11
		7	500	25/11/2010
2	Korba STPS - III	1	500	2011-12
3	Mauda TPP	2	500	2012-13

Power system Operation Corporation Ltd.

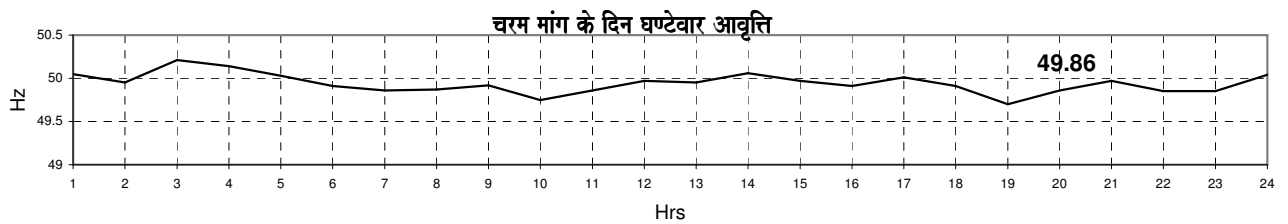
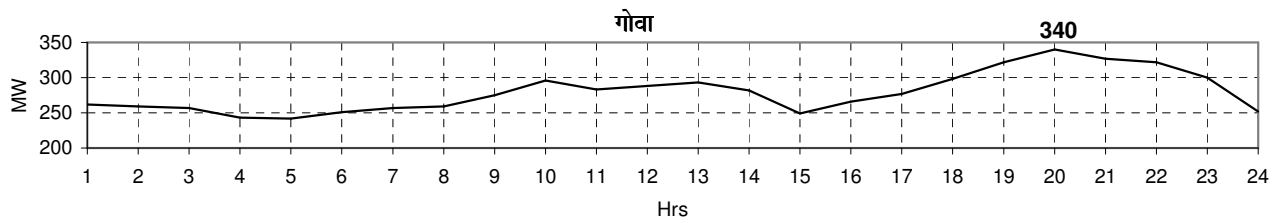
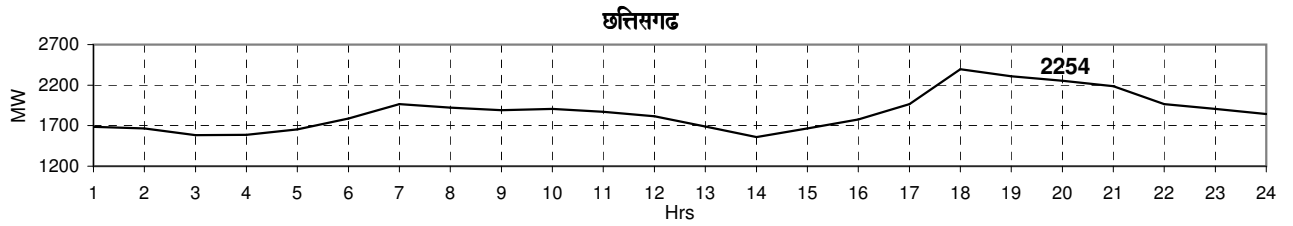
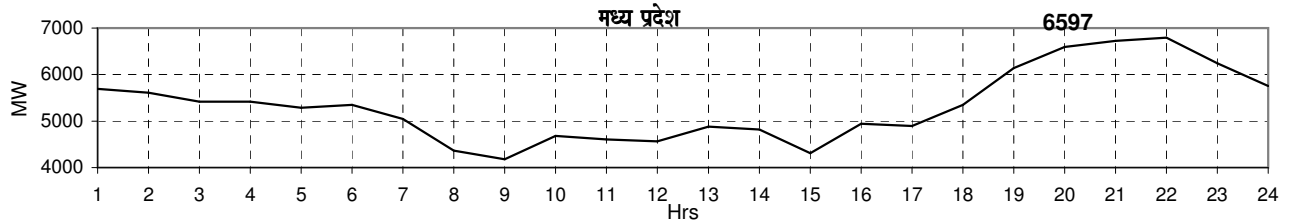
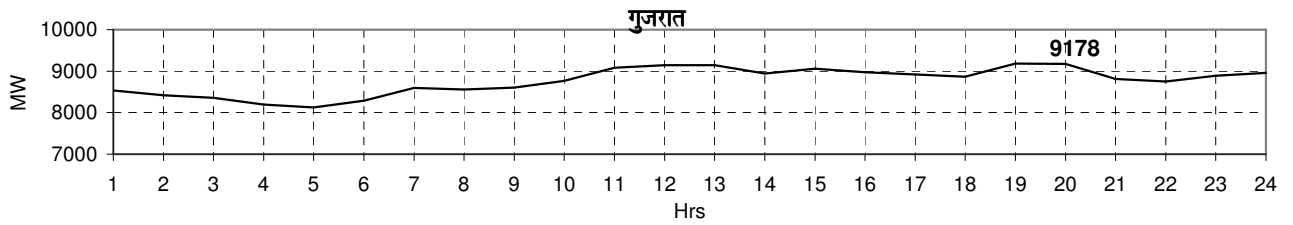
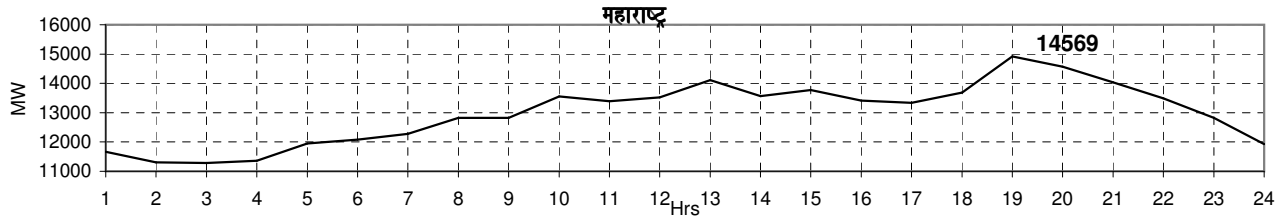
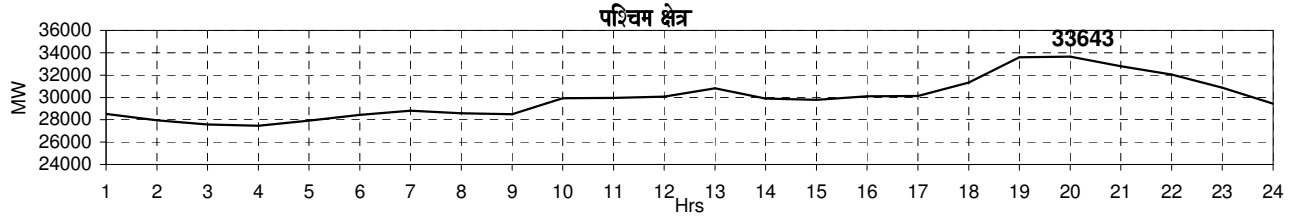
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Western Regional Despatch Centre

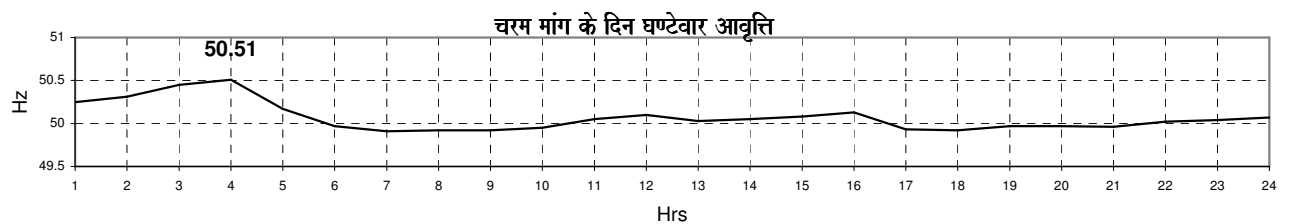
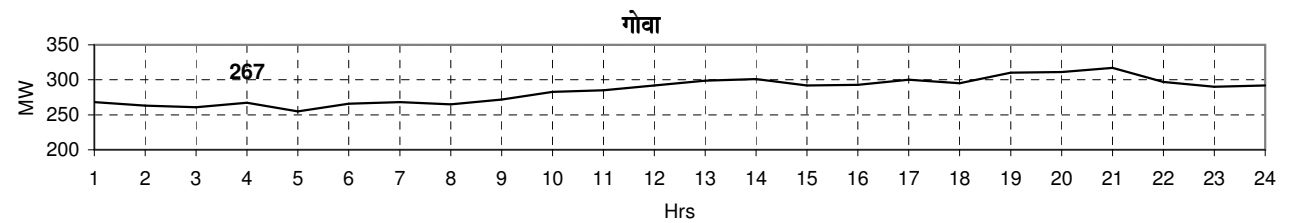
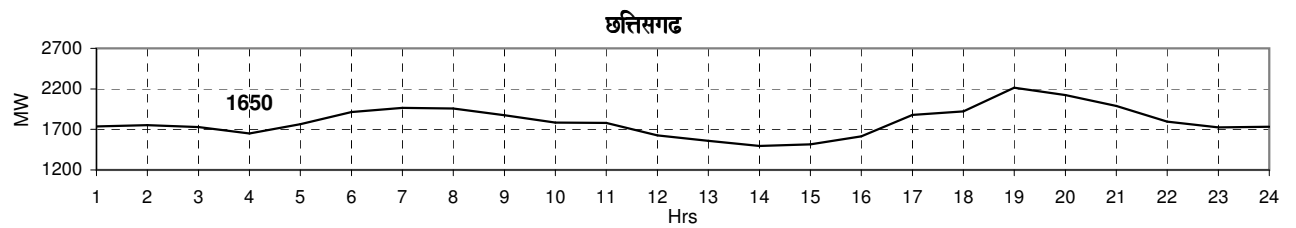
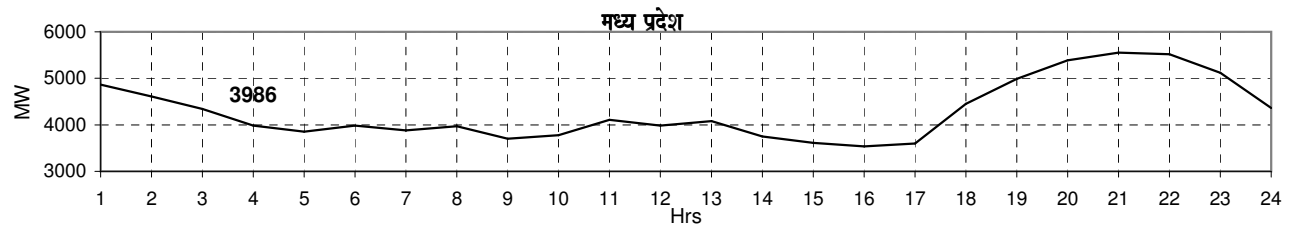
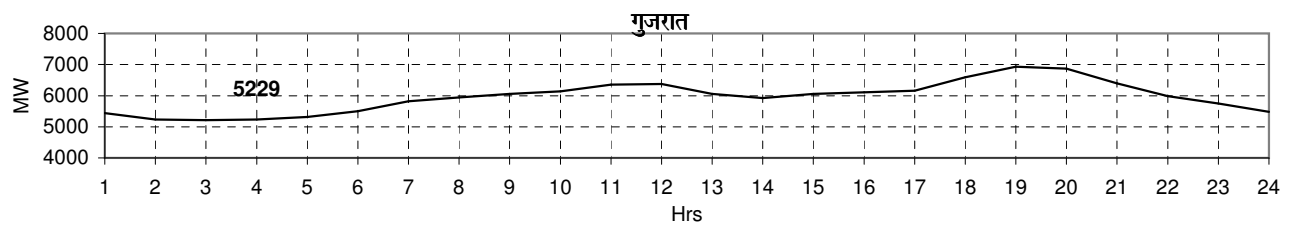
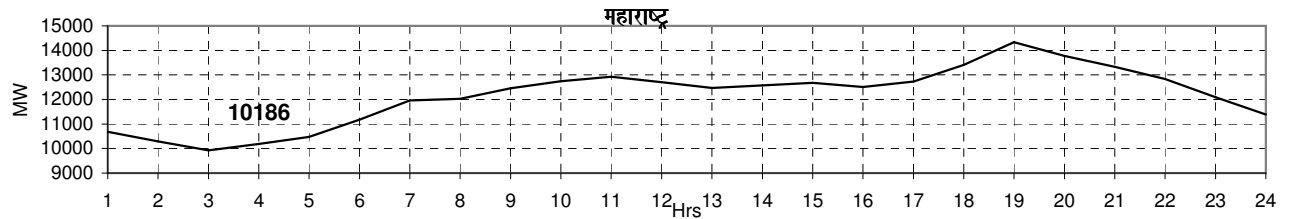
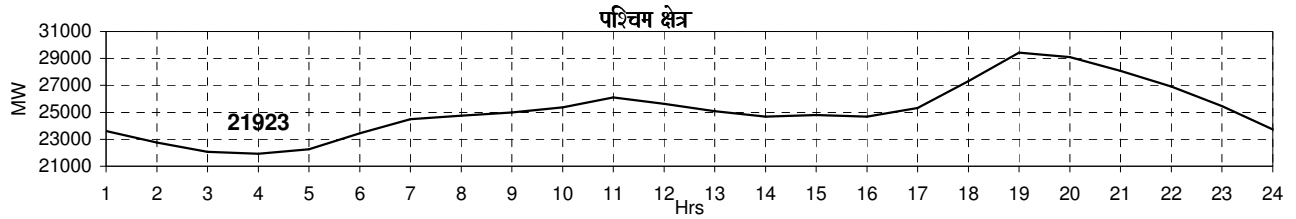
LOAD DURATION CURVE (NOV-2010) Max.demand met=33643 MW Min.demand = 21923 MW



पश्चिम क्षेत्र का चरम भार दिन के प्रतिघंटा भार वक
HOURLY DEMAND CURVES ON REGIONAL PEAK DAY 03.11.2010



पश्चिम क्षेत्र का न्यूनतम भार दिन के प्रतिघंटा भार वक्र
 HOURLY DEMAND CURVES ON REGIONAL MIN DAY 23.11.2010



NEW GRID FREQUENCY DURATION CURVE FOR NOV'10

Max=50.73 Min= 49.12

