



पश्चिम क्षेत्रीय भार प्रेषण केंद्र की  
फरवरी 2011 माह की प्रणाली प्रचालन  
रिपोर्ट

# System Operation Report Of Western Region For the month of Feb 2011

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 FEB 2011**

**A)SUMMARY REPORT**

**I)IMPORTANT  
EVENTS**

**a)COMMISSIONING OF NEW GENERATING UNITS**

SL.NO.	CONSTITUENT	UNIT NAME	UNIT NO	CAPACITY(MW)	DATE
1	NTPC	Sipat-I	I	660	18/02/11

**b)COMMISSIONING OF NEW TRANSMISSION LINES**

SL.NO.	CONSTITUENT	LINE NAME	CKT NO	KV	DATE
1	TORRENT	Sugen-Pirana	1&2	400	26/02/11
2	POWERGRID	*Raigarh-Rourkela-Sterlite	II	400	27/02/11
3	POWERGRID	**Pirana(T)-Pirana(PG) LILO	1&2	400	28/02/11
4	POWERGRID	Birsingpur-Damoh	IV	400	28/02/11

\*Liloed at  
Sterlite

\*\*Liloed at Pirana

**c)COMMISSIONING OF NEW SUBSTATIONS**

**NIL**

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

400/132 kV ICT 1&2 at Pirana(Torrent) on 26.02.2011

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

**NIL**

**i) Grid Separations**

**NIL**

माह फरवरी 2011 में पश्चिम क्षेत्र का निष्पादन डाटा

**Performance of Western Regional Grid during Feb -2011**

**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	672.41	646.91	-25.5	0.248	0.507
2	मध्य प्रदेश Madhya Pradesh	1761.22	1816.3	55.08	1.825	0.729
3	महाराष्ट्र Maharashtra	2200.33	2317.03	116.7	0.904	3.771
4	छत्तिसगढ Chhattisgarh	-342.37	-405.51	-63.14	0.179	3.667
5	गोवा Goa	183.22	172.84	-10.38	0.049	0.913
6	दमन और दीव D&D	170.34	153.16	-17.18	0.045	1.097
7	दादर नगर हवेली	349.54	319.93	-29.61	0.38	1.637
8	कुल TOTAL	4994.69	5020.66	25.97	3.63	12.32

आवृत्ति रूपरेखा

III a. Frequency Profile

MAXIMUM FREQUENCY( Inst.):	50.67 HZ
अधिकतम आवृत्ती एकिकृत	:
Minimum frequency(Inst)	49.01 HZ
न्यूनतम आवृत्ती एकिकृत	:
Average frequency	49.88 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	0.17	4.32	88.89	6.62	0.00

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

a. विद्युत पूर्ति की स्थिति Power Supply Position

	FEB-11			APR -10 TO FEB-11		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
Gujarat	6090	5814	4.53	68508.82	64318.11	6.12
MPSEB	4695	3660	22.05	44172.57	35518.46	19.59
CSEB	1659	1645	0.84	18469.02	18319.54	0.81
Maharashtra	11147	9559	14.25	118367.30	101936.83	13.88
Goa	195	195	0.04	2350.46	2254.63	4.08
D&D	171	152	11.02	1822.62	1638.89	10.08
DNH	339	336	0.88	1945.95	1864.69	4.18
Western Region	26110	23062	11.67	258410.83	228480.81	11.58

b. Peak Demand / Demand Met(MW)

	FEB-11			APR -10 to FEB -11		
	Requirement (MW)	Availability (MW)	Shortage (%)	Requirement (MW)	Availability (MW)	Shortage (%)
Gujarat	10168	9525	6.32	11296	10344	8.43
MPSEB	8957	8296	7.38	8957	8296	7.38
CSEB	2873	2688	6.44	3075	2922	4.98
Maharashtra	20048	15996	20.21	20308	15996	21.23
Goa	386	371	3.89	544	453	16.73
D&D	247	247	0.00	291	252	13.40
DNH	526	526	0.00	541	526	2.77
Western **Region	42061	35252	16.19	42061	35252	16.19

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

**PEAK DEMAND FOR FEB.2011**

State	Catered	UNSC HLS+ SCHL S	FC	PC	Total	Date	Time	Freq.
<b>दिव दमण DD</b>								
पंजीकृत Registered	247	-	-	-	247	07.02.11	19:00	49.94
<b>दादरा नगर हवेली DNH</b>								
पंजीकृत Registered	547	-	-	-	547	23.02.11	24:00	49.8
<b>गुजरात GUJARAT</b>								
पंजीकृत Registered	9525	-	-	-	9525	05.02.11	20:00	49.63
असीमित Unrestricted	9525	520	123	0.00	10168	05.02.11	20:00	49.63
<b>छत्तीसगढ रा.वि.बोर्ड Chhattisgarh</b>								
पंजीकृत Registered	2688	-	-	-	2688	27.02.11	19:00	50.10
असीमित Unrestricted	2531	319	22	0	2873	17.02.11	19:00	49.75
<b>मध्य प्रदेश रा.वि.बोर्ड Madhy Pradesh</b>								
पंजीकृत Registered	8296	-	-	-	8296	19.02.11	21:00	49.74
असीमित Unrestricted	6870	1976	111	0	8957	03.02.11	20:00	49.54
<b>महाराष्ट्र रा.वि.बोर्ड-MAHA- RASHTRA</b>								
पंजीकृत Registered	15996	-	-	-	15996	23.02.11	12:00	49.82
असीमित Unrestricted	14824	5037	187	0	20048	02.02.11	19:00	49.64
<b>पश्चिम क्षेत्र WESTERN REGION</b>								
पंजीकृत Registered	35252	-	-	-	35252	07.02.11	20:00	49.99
असीमित Unrestricted	34039	7473	548	0	42061	03.02.11	20:00	49.54

माह फरवरी 2011 में अंतर क्षेत्र से पश्चिम क्षेत्र को विद्युत विनिमय

**Inter-Regional Exchange of Power in Western Region during FEB -11**

<b>DESCRIPTION</b>	<b>Import ( Mus )</b>
Indian Energy Exchange (ER to WR)	110.70
Power Exchange of India (ER to WR)	50.92
ER (NTPC) to GUVNL	54.66
ER (NTPC) to MP PTCL	35.22
ER (NTPC) to CSEB	14.29
ER (NTPC) to MSEDCL	70.30
ER (NTPC) to GOA	0.00
ER (NTPC) to D D	0.93
ER (NTPC) to D N H	1.43
DVC to MPPTCL (Long Term Open Access)	64.52
Hirakud to CSEB	1.19
TATA HALDIA(WB) to TPC MSEB ( TPTCL)	0.12
Indian energy Exchange (NR-WR)	414.76
Power Exchange of India(NR-WR)	116.79
Rihand (Hydro) to MPPTCL (Long Term Open Access)	3.50
Matathilla (Hydro) to MPPTCL (Long Term Open Access)	4.99
BSES_RAJ to MPSEB ( RETL)	31.93
BSES YM (DTL) to MPSEB ( RETL)	51.80
HIMACHAL to MPSEB ( IEXL)	0.86
PSEB to MPSEB ( MPSEB)	28.07
UPPCL to MPSEB ( MPPL)	61.91
GFL to TPC MSEB ( TPTCL)	3.08
GBRL KPCL to TPC MSEB ( TPTCL)	13.23
KSL KPTCL to TPC MSEB ( TPTCL)	5.77
USWL to TPC MSEB ( TPTCL)	0.26
USWL GULBARGA to TPC MSEB ( TPTCL)	0.65
<b>DESCRIPTION</b>	<b>Export(Mus)</b>
MIEL CSEB to ASEB ( NVVNL)	3.85
APL GUVNL to JSEB(ER) ( PTC LTD)	13.38
BALCO CSEB to JSEB(ER) ( PTC LTD)	13.21
CSEB to JSEB(ER) ( PTC LTD)	6.95
APL GUVNL to JVVNL ( IEXL)	43.45
GUVNL to JVVNL ( PXIL)	61.13
GUVNL to NPCL ( NPCL)	30.01
JPL to NPCL ( JPL)	11.68
SEML CSEB to NPCL ( LANCO)	6.28
BALCO CSEB to RPPC ( NVVNL)	13.68
JPL to RPPC ( NVVNL)	38.94
TORRENT_GUVNL to RPPC ( NVVNL)	18.73
JPL to APPCC ( NVVNL)	69.77
CSEB to BESCOM ( PTC LTD)	190.97

JPL to BESCO ( PTC LTD)	64.69
LAMKPL to BESCO ( PTC LTD)	176.57
APL GUVNL to KSEB ( AEL)	26.13
BALCO CSEB to STERLITE ( NETS)	18.38
RREL CSEB to SAMMAR FERRO TNEB ( SCL)	0.43
BALCO CSEB to TNEB ( NVVNL)	19.59
BALCO CSEB to TNEB ( PTC LTD)	11.70
CSEB to TNEB ( PTC LTD)	24.78
GUVNL to TNEB ( PXIL)	0.14
JPL to TNEB ( NVVNL)	19.39
<b>NET EXPORT TO ER</b>	<b>292.07</b>
<b>NET EXPORT TO NR</b>	<b>382.21</b>
<b>NET EXPORT TO SR</b>	<b>659.94</b>



दिनांक 28 | 02 | 2011 को राज्यानुसार संस्थापित क्षमता

INSTALLED GENERATION CAPCITY OF THE STATES INCLUDING SHARES AS ON 28.02.2011

(All fig. in MW)

State	Ownership	Hydro	Coal	Gas	Nuclear	Total	Diesel	RES	Total
Gujarat	State	772.00	4220.00	892.72	0.00	5884.72	17.28	29.90	5931.90
	Private	0.00	2630.00	2577.50	0.00	5207.50	0.20	1970.57	7178.27
	Central(firm allo)	0.00	1628.89	424.27	559.32	2612.48	0.00	0.00	2612.48
	Total	772.00	8478.89	3894.49	559.32	13704.70	17.48	2000.47	15722.65
Madhya Pradesh	State	1703.66	2807.50	0.00	0.00	4511.16	0.00	26.76	4537.92
	Private	0.00	0.00	0.00	0.00	0.00	0.00	240.40	240.40
	Central(firm allo)	1520.00	1552.60	257.18	273.24	3603.02	0.00	0.00	3603.02
	Total	3223.66	4360.10	257.18	273.24	8114.18	0.00	267.16	8381.34
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	231.90	1831.90
	Central(firm allo)	0.00	804.00	0.00	47.52	851.52	0.00	0.00	851.52
	Total	120.00	4464.00	0.00	47.52	4631.52	0.00	250.95	4882.47
Maharashtra	State	2884.84	7295.00	672.00	0.00	10851.84	0.00	269.23	11121.07
	Private	447.00	2905.00	180.00	0.00	3532.00	0.00	2540.10	6072.10
	Central(firm allo)	0.00	2138.05	2623.93	690.14	5452.12	0.00	0.00	5452.12
	Total	3331.84	12338.05	3475.93	690.14	19835.96	0.00	2809.33	22645.29
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	283.03	0.00	25.80	308.83	0.00	0.00	308.83
	Total	0.00	283.03	48.00	25.80	356.83	0.00	30.05	386.88
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	21.04	4.20	7.38	32.62	0.00	0.00	32.62
	Total	0.00	21.04	4.20	7.38	32.62	0.00	0.00	32.62
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	25.04	27.10	8.46	60.60	0.00	0.00	60.60
	Total	0.00	25.04	27.10	8.46	60.60	0.00	0.00	60.60
WR	State	5480.50	16382.50	1564.72	0.00	23427.72	17.28	344.99	23789.99
	Private	447.00	7135.00	2805.50	0.00	10387.50	0.20	5012.97	15400.67
	Central(firm allo)*	1520.00	6452.65	3336.68	1611.86	12921.19	0.00	0.00	12921.19
	Unallocated	0.00	1025.35	196.91	228.14	1450.40	0.00	0.00	1450.40
	Total	7447.50	30995.50	7903.81	1840.00	48186.81	17.48	5357.96	53562.25

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 FEB -2011**

<b>1. स्थापित क्षमता Installed Capacity (MW)</b>	<b>गुजरात Gujarat</b>	<b>मध्य प्रदेश M.P</b>	<b>छत्तिसगढ CSEB</b>	<b>महाराष्ट्र Mah.</b>	<b>गोवा Goa</b>	<b>सेंद्रल सेक्टर Central Sector</b>	<b>सेंद्रल सेक्टर Central unlocated</b>	<b>पश्चिम क्षेत्र Western Region</b>
फरवरी Feb'10	13566	8324	4457	21119	381	13871	1375	49311
फरवरी Feb'11	15723	8381	4882	22645	386	14371	1450	53562
वृद्धि प्रतिशतमें % increase	15.90	0.69	9.53	7.23	1.34	3.60	5.5	8.62
<b>2. उर्जा Energy (Gross)</b>	<b>गुजरात Gujarat</b>	<b>मध्य प्रदेश M.P</b>	<b>छत्तिसगढ CSEB</b>	<b>महाराष्ट्र Mah.</b>	<b>गोवा Goa</b>	<b>दिव दमण DD</b>	<b>दादरा नगर हवेली DNH</b>	<b>प क्षेत्र Western Region</b>
असिमित आवश्यकता Unrestricted requirement (MUs)								
फरवरी Feb'10	5775	4034	807	10802	247	147	325	22138
फरवरी Feb'11	6090	4695	1659	11147	195	171	339	26110
असिमित आवश्यकता Unrestricted Requirement MUs/day								
फरवरी Feb'10	186	130	26	348	8	5	10	714
फरवरी Feb'11	196	151	54	360	6	6	11	842
ऊर्जा उपलब्धता Energy availability (MUs)								
फरवरी Feb'10	5333	3090	800	8627	244	147	324	18566
फरवरी Feb'11	5814	3660	1645	9559	195	152	336	23062
ऊर्जा उपलब्धता Energy availability MUs/day								
फरवरी Feb'10	172	100	26	278	8	5	10	599
फरवरी Feb'11	188	118	53	308	6	5	11	744
<b>3. मांग Demand</b>	<b>गुजरात Gujarat</b>	<b>मध्य प्रदेश M.P</b>	<b>छत्तिसगढ CSEB</b>	<b>महाराष्ट्र Mah.</b>	<b>गोवा Goa</b>	<b>दिव दमण DD</b>	<b>दादरा नगर हवेली DNH</b>	<b>प क्षेत्र Western Region</b>
असिमित मांग Unrestricted demand (MW)								
फरवरी Feb'10	9755	7719	2709	18843	393	232	529	39054
फरवरी Feb'11	10168	8957	2873	20048	386	247	526	42061
प्रतिशत in%	4.23	16.04	6.05	6.39	-1.78	6.47	-0.57	7.70
चरम मांग Peak Demand met (MW)								
फरवरी Feb'10	8800	6644	2653	14365	368	232	494	32249
फरवरी Feb'11	9525	8296	2688	15996	371	247	526	35252
प्रतिशत in%	8.24	24.86	1.32	11.35	0.82	6.47	6.48	9.31

4. मांग और ऊर्जा में कमतरता प्रतिशतमें Shortage in demand and energy (%)								
क्षमतामें कमी Capacity shortage	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	पश्चिम क्षेत्र Western Region
अधिशेष (-)/ surplus (+) (MW)								
फरवरी Feb'10	-955	-1075	-56	-4478	-25.00	0.00	-35.00	-6805
प्रतिशत in%	-9.79	-13.93	-2.07	-23.76	-6.36	0.00	-6.62	-17.42
फरवरी Feb'11	-643	-661	-185	-4052	-15	0	0	-6809
प्रतिशत in%	-6.32	-7.38	-6.44	-20.21	-3.89	0.00	0.00	-16.19
ऊर्जा में कमी Energy shortage(-)/ अधिशेष Surplus (+) (MUs)	गुजरात Gujarat	मध्य प्रदेश M.P	छत्तिसगढ CSEB	महाराष्ट्र Mah.	गोवा Goa	दिव दमण DD	दादरा नगर हवेली DNH	प क्षेत्र Western
फरवरी Feb'10	-442.07	-944.71	-7.59	-2174.85	-2.63	0.00	-0.11	-3571.96
प्रतिशत in%	-7.65	-23.42	-0.94	-20.13	-1.07	0.00	-0.03	-16.13
फरवरी Feb'11	-276.00	-1035.40	-14.00	-1588.08	-0.07	-18.82	-3.00	-3047.44
प्रतिशत in%	-4.53	-22.05	-0.84	-14.25	-0.04	-11.02	-0.88	-11.67

माह फरवरी 11 में ग्रिड के प्रमुख उप केन्द्र का विद्युतदाब रूपरेखा

Voltage Profile of major Sub-Stations for the month of Feb -2011

क्षेत्र Region	सब स्टेशनका नाम Sub station name	अधिकतम विद्युतदाब Nominal Voltage(KV)	विद्युतदाब स्थिति (प्रतिशत समय) Percentage of time when voltage was			अधिकतम विद्युतदाब Max. Voltage(KV)	न्यूनतम विद्युतदाब Min. Voltage(KV)	संक्षिप्त स्पष्टीकरण Brief Explanation
			Below 0.97 p.u.	0.97-1.03 p.u.	Above 1.03 p.u.			
Western	धुले Dhule	400	0.00	29.42	70.58	432	390	
	असोज Asoj	400	0.00	20.65	79.35	426	408	
	कराड Karad	400	0.00	43.58	56.42	430	397	
	कासोर Kasor	400	0.00	3.46	96.54	429	406	
	इन्दौर Indore	400	0.00	62.54	37.46	426	390	
	इटारसी Itarsi	400	0.00	29.48	70.52	432	397	
	जेतपुर Jetpur	400	0.18	46.48	53.34	429	401	
	भिलाई Bhilai	400	0.00	25.82	74.18	421	401	
	बिना Bina	400	0.41	76.45	23.14	428	396	
	ग्वालियर Gwalior	400	1.18	78.43	20.39	432	386	

**PROGRESS OF ONGOING GENERATION PROJECT IN WESTERN REGION**

Sr.No.	Name of the power project	Unit No.	Capacity( MW)	commissionig schedule
A	<b><u>GUJARAT</u></b>			
1	Ukai TPS extn	6	490	Mar-11
2	Pipavav CCPP-GPCL & GSPC joint venture	block 1 block 2	350 350	Mar-11 Mar-11
3	Mundra ultra mega TPP ( TATA)	1 2	800 800	Sep-11 Sep-12
4	Hazira CCPP Expansion GSEG	GT+ST	350	Mar-11
	<b>OTHER PROJECTS</b>			
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 2	660 660	Jun-11
B	<b><u>MADHYA PRADESH</u></b>			
1	Amarkantak TPS	2	500	Apr-11
2	Satpura TPS ext.	10 11	250 250	May-11 Mar-11
	<b>OTHER PROJECTS</b>			
1	Maheshwar HEP		400	2010-2011
2	Malwa TPP	1	500	Mar-11
C	<b><u>CHATTISGARH</u></b>			
1	Marwa TPP	1 2	500 500	Sep-12 Nov'12
2	Korba west -III TPP	1	500	Jun-12
	<b>OTHER PROJECTS</b>			
1	Bhaiyathan TPP Phase 1	1 2	500 500	Dec-12 Aug-13
2	IFFCO	1 2	660 660	Aug-12 Dec-12
D	<b><u>MAHARASHTRA</u></b>			
1	Khaperkheda TPS Extn.	1 4	500 500	Mar-11 Mar-11
2	JSW Ratnagiri TPP ( JSW Ltd.)	2 3 4	300 300 300	Apr-11 Jun-11 Mar'11

	<b>OTHER PROJECTS</b>	1	800	Oct-12
1	Koradi TPS extn	1	800	Nov-11
2	Dhopawe TPS	2	800	May-12
		block 2	340	Mar-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	<b><u>CENTRAL SECTOR</u></b>			
1	Sipat TPP	2	660	May'11
		3	660	Nov'11
2	Korba STPS - III	1	500	Mar-11
3	Mauda TPP	2	500	2012-13

**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>
<b>A</b>	<b>Gujarat</b>			
	<b>I)400kV Lines</b>			
1	Essar - Hadala	226	March`11	work under progress,ROW Problems
2	400 kV Adani-Zerda Line no.2	661.12	Oct'11	Kept in abeyance as M/s APL backed out from PPA
3	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	March`11	work under progress, ROW Problem
2	220 KV D/C GSEG(Hazira)-Kosamba line	124	April'11	Work under progress
3	220 KV D/C GPPC-Dhokadva line	100	April'11	Work under progress
4	LILO of one circuit of 220 KV D/C Savarkundla-Otha line at GPPC	93	March'11	Work under progress
5	LILO of 220 KV Morbi-Halvad line 1 at 400 KV Bhimasar (PG) S/S	215	April'11	Check survey work under progress
6	LILO of 220 KV Morbi-Halvad line 2 at 400 KV Bhimasar (PG) S/S	210	April'11	Check survey work under progress
7	220 KV GSEG(Hazira)-Mota line	111.06	April'11	Check survey work under progress
8	220 KV D/C Nakhatrana- Varsana line	190	June'11	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	Mar'11	Profile of 19.937 km has been approved.
2	400 kV Korba(West) – Khedamara DCDS	224	Dec'11	Work under progress
3	400 KV DCDS Marwa TPP- Proposed 400 KV s/s Raipur	150	Mar'12	Order to be placed in Mar'10
4	LILO of 400 KV Korba(W)Bhilai(Khedmara) line to Marwa TPP	65	Mar'12	Preliminary survey and tender preparation under progress
	<b>II) 220kV Lines</b>			
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	March'11	Work under progress
3	220 KV DCSS Kheedmara - 220KV s/s Bemtara + 1 no. bay at Khedmara & 1 no. at Betemara	50.9	March'11	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



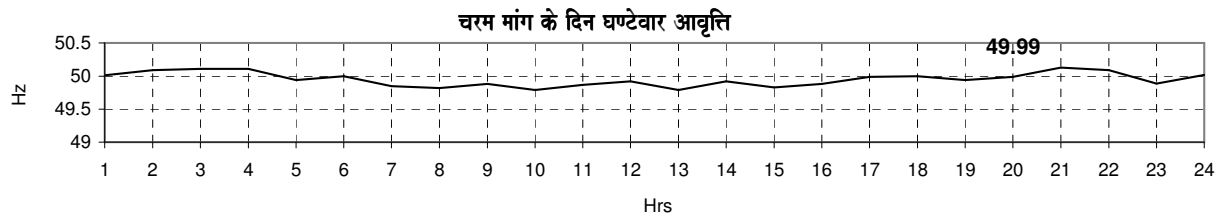
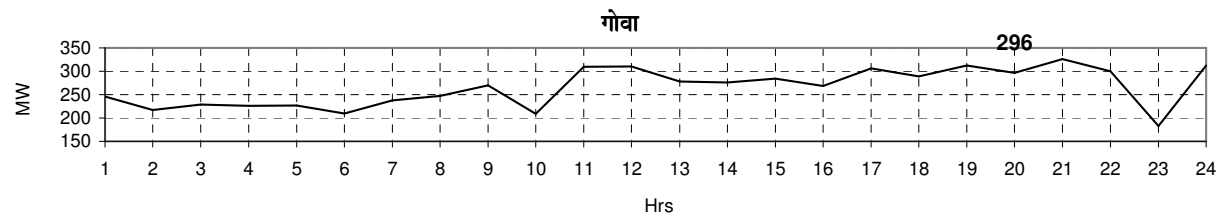
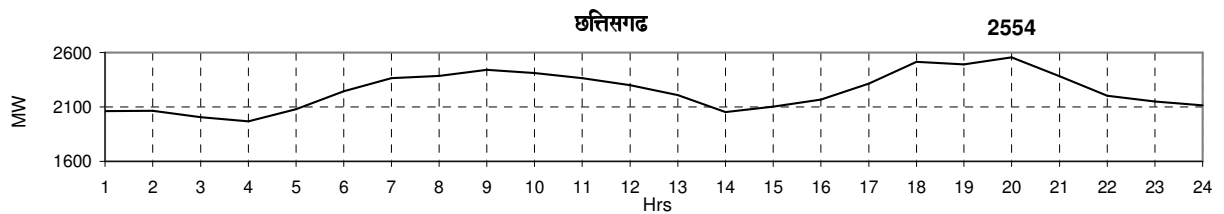
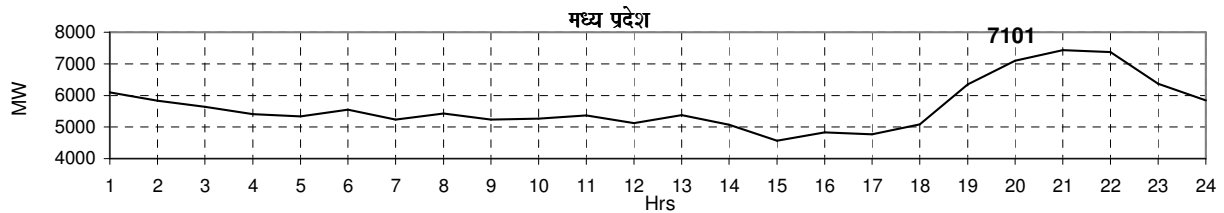
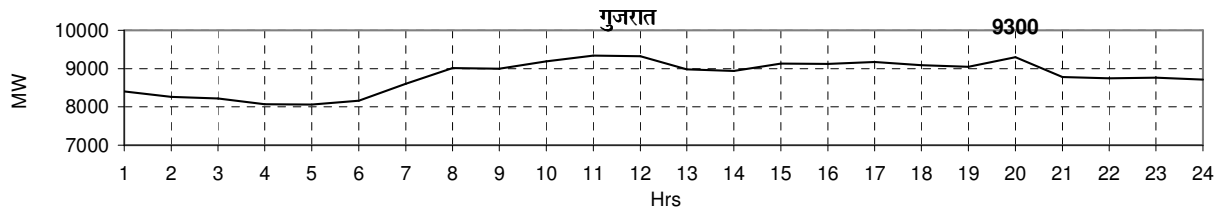
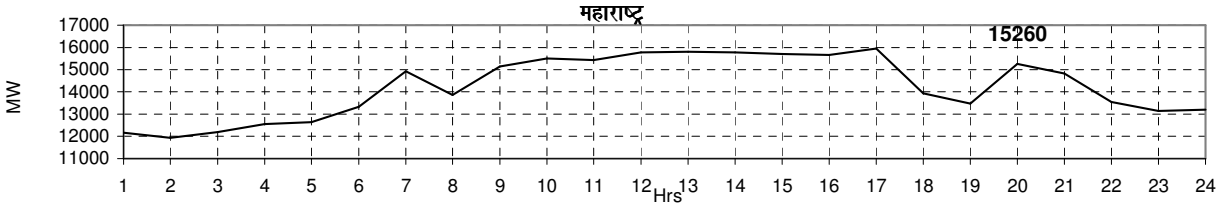
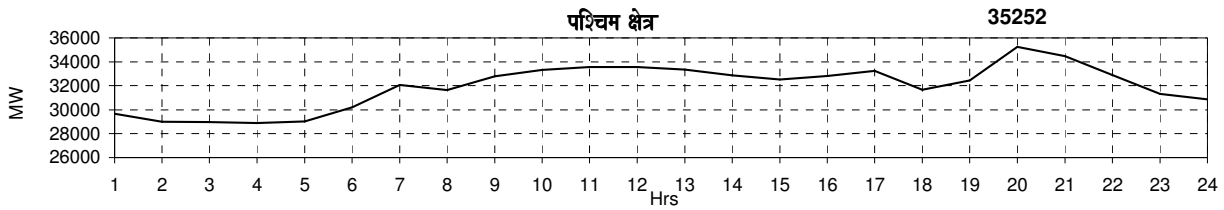
7	Diversion of 220kv line of Korba - Bhatapara and 220k I/C in between Korba ( w ) and proposed 220 kv Cchuri s/s using section of Korba - Amarkantak- I & II	14	2010-11	Work to be taken up
8	Diversion of 220 KV Korba- Amarkantak Ckt-I & II to proposed 200/132 KV Chhuri s/s DCSS	4	2010-11	Land aaquisition under progress
<b>D)</b>	<b>Maharashtra</b>			
	<b>I) 400kV Lines</b>			
1	Bhusawal-II -A'rangabad ( location 1-270)	190	March`11	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	June'11	Excavation work in progress
2	Beed - Patoda D/C	45	March'11	Work in progress
3	Parli TPS-Nanded M/C line (Waghala)	90.3	Apr'11	Work in progress
4	Jaina- Chikhali D/C	150	Apr'11	Work in progress
5	220kv D/C on D/C tower from 400kv Bhusawal-II to 220kv Amalner	182	April'11	Work still in progress
6	220 KV D/C on D/C Tower from Jeur-Paranda	30	May'11	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	May'11	Work in progress
8	220 KV Paras-Balapur D/C on M/C	5.61	March'11	Work in progress
<b>Sl.No</b>	<b>POWERGRID</b>			
	<b>765 kV &amp; 400kv</b>			
<b>E)</b>	<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	April'11	ROW problem

3	400 KVRaipur(PG) - Wardha(PG) D/C	741	April'11	Work affected due to ROW problem
4	400 KV Bhadravati(PG)-Parli(PG) D/C	776	March'11	Work affected due to ROW problem
5	400 KVParli ( MSEB)-Parli (PG) D/C	14	March'11	Engg & survey under progress
<b>For Regional strengthening in southern Maharashtra to be implemented through IPTC Route by WR transmission (Mah) Pvt. Ltd.</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	March'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	March'11	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	Mar'11	
14	400 KV Ranchodpura(GEB)-Zerda(GEB) D/C	280	March'11	
<b>For Regional strengthening in Northern Madhya Pradesh</b>				
15	400 KV Korba(NTPC)-Birsinghpur(MPSEB) D/C	453	Feb'11	Ist stage forest clearance received
<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	*	
<b>WR strengthening system-V</b>				
21	400 KV Vapi- Navi Mumbai D/C	258	Dec'11	Severe ROW problem
22	Lilo of L'khand-Kalwa S/C at Navi Mumbai	10	Mar'11	Severe ROW problem

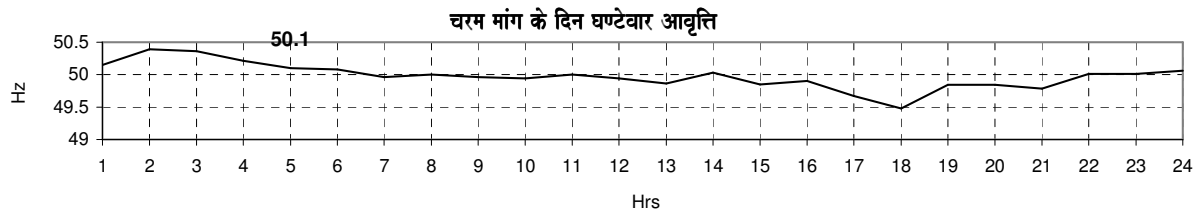
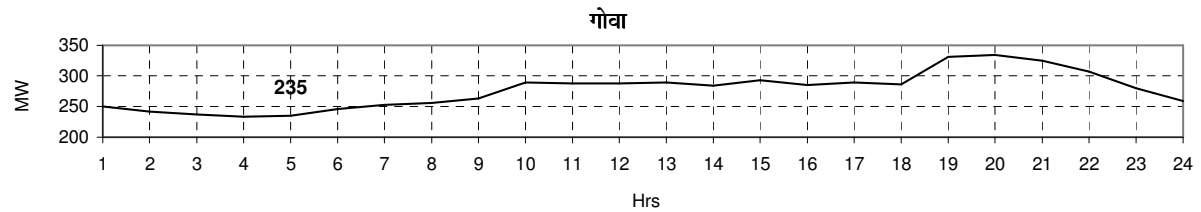
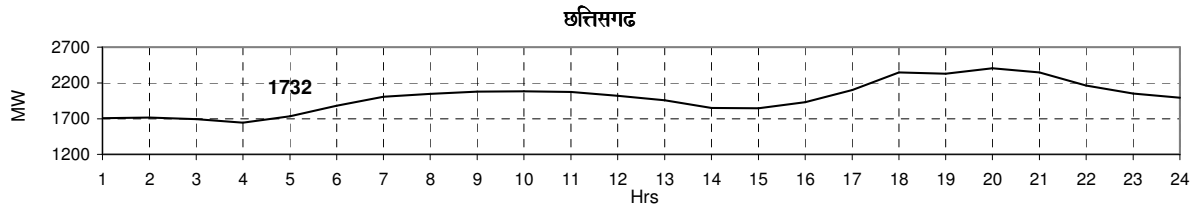
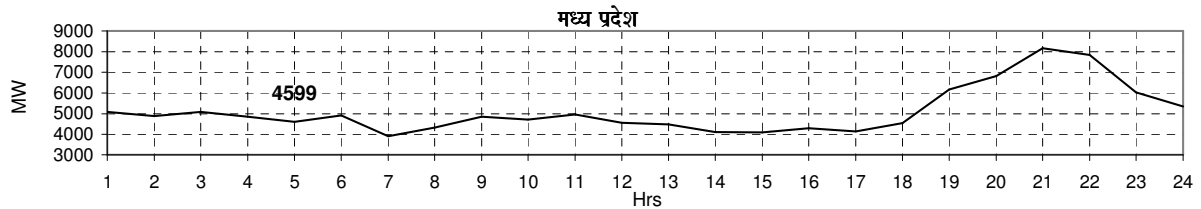
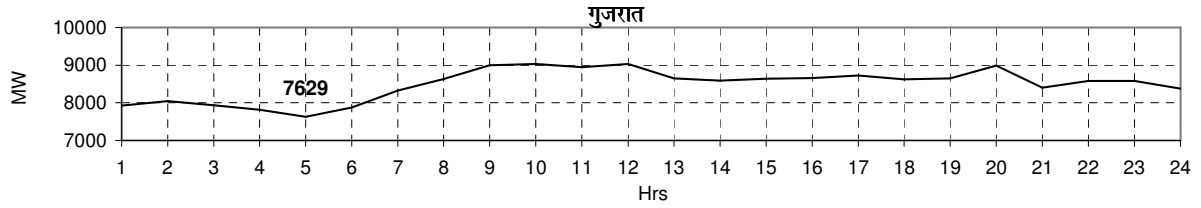
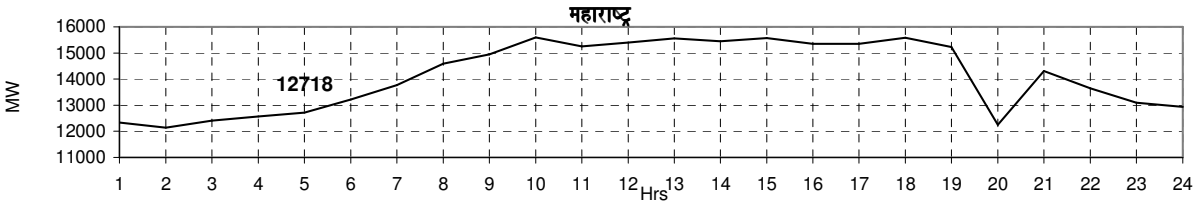
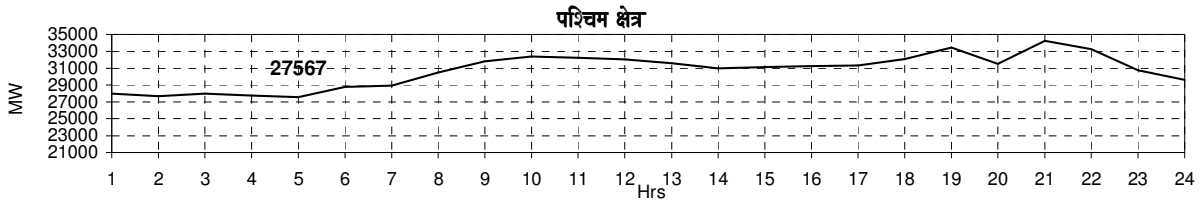
<b>WR strengthening system-VI</b>				
23	400 KV Dehgam Pirana D/C	92		test charged from Dehgam on 30.12.10
<b>WR strengthening system-IX</b>				
24	LILO of 400 KV Bina-Nagda Line at Sujalpur	60	Mar'11	Award placed in Nov'09
<b>WR strengthening system-X</b>				
25	LILO of 765 KV Sipat-Seoni line near Sipat at Bilaspur	14	Feb'12	Tendering under progress connected with Bilaspur Pooling station
<b>WR strengthening system-XI</b>				
26	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>				
27	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>				
28	400 KV D/C Mundra-Limbdi	626	Dec'11	Wild life sanctury portion clearance awaited
29	400 KV D/C Mundra-Bachchauranchodpur	764	Dec'11	Wild life sanctury portion clearance awaited
30	400 KV D/C Mundra-Bachchaur Jetpur	666	Mar'12	Wild life sanctury portion clearance awaited
31	400 KV D/C Gandhar-Navsari line	212	Dec'11	River crossing
32	400 KV D/C Navsari-Mumbai	408	June'12	01 out of 02 package awarded.
33	400 KV D/C Wardha-Aurangabad	800	Oct'12	Tendering under progress
34	400 KV D/C Aurangabad-Auranagabad(MSETCL)line	60	Oct'12	Tendering under progress
35	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 strengthning scheme</b>			
1	400 KV Raigarh-Rourkela D/C	420	March'11	Under Progress

पश्चिम क्षेत्र का चरम भार दिन के प्रतिघंटा भार वक्र  
 HOURLY DEMAND CURVES ON REGIONAL PEAK DAY 07.02.2011

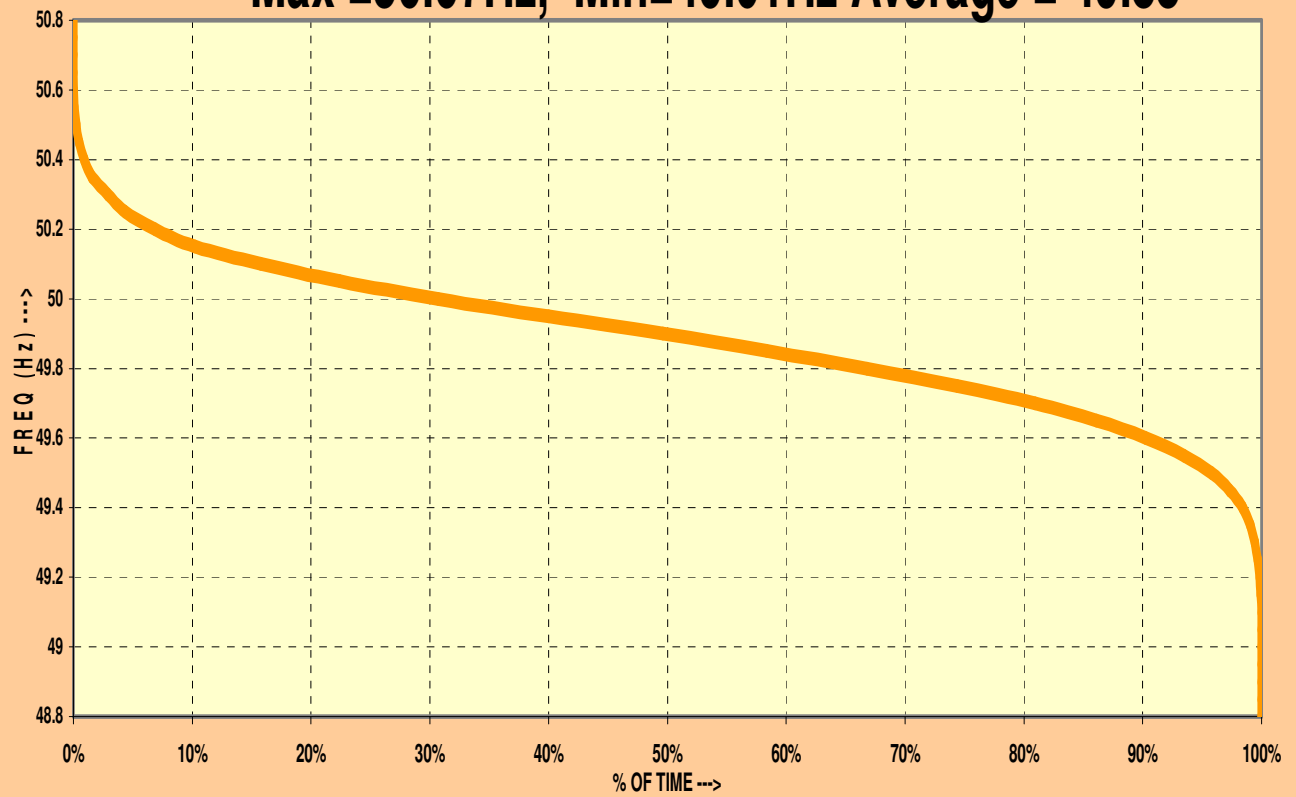


**पश्चिम क्षेत्र का न्यूनतम भार दिन के प्रतिघंटा भार वक**  
**HOURLY MIN.DEMAND CURVES ON REGIONAL PEAK DAY 21.02..2011**



# NEW GRID FREQUENCY DURATION CURVE FOR FEB`11

Max =50.67Hz, Min=49.01Hz Average = 49.88



# Frequency Profile - Feb'11

