



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

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

पावर ग्रिड कारपोरेशन ऑफ इंडिया लिमिटेड  
पश्चिम क्षेत्रीय भार प्रेषण केन्द्र  
एफ -3 एम.आय.डि.सी., मरोल, अंधेरी( पूर्व )  
मुम्बई-400093

POWERGRID CORPORATION OF INDIA LTD  
WESTERN REGIONAL LOAD DESPATCH CENTRE  
F-3,MIDC,MAROL,ANDHERI(E),MUMBAI-400093

माह फरवरी 2010 में पश्चिम क्षेत्र का निष्पादन डाटा

Performance of Western Regional Grid during Febuary -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. <49Hz (MUs)	Underdrawal at Freq. >50.5Hz (MUs)
1	गुजरात Gujarat	970.77	787.69	-183.08	0.00	0.00
2	मध्य प्रदेश Madhya Pradesh	1327.73	1316.84	-10.89	0.00	0.013
3	महाराष्ट्र Maharashtra	2072.57	2358.5	285.93	0.00	0.398
4	छत्तिसगढ Chhattisgarh	-302.45	-454.6	-152.15	0.00	0.117
5	गोवा Goa	200.57	164.87	-35.7	0.00	0.052
6	दमन और दीव D&D	186.40	136.21	-50.19	0.00	0.064
7	दादर नगर हवेली DNH	340.02	299.65	-40.37	0.007	0.038
8	पावरग्रिड एचवीडीसी PG(HVDC)	2.139	1.36	-0.779		
9	कुल TOTAL	4797.749	4610.52			

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

**Inter-Regional Exchange of Power in Western Region during FEB - 2010**

<b>LINES</b>	<b>Import ( Mus )</b>
ER(NTPC ) to GUVNL	47.54
ER(NTPC ) to MPPTCL	27.562
ER(NTPC ) to CSEB	11.181
ER(NTPC ) to MSEDCL	55.181
ER(NTPC ) to GOA	0.000
ER(NTPC ) to DD- AC link	0.726
ER(NTPC ) to DNH- AC link	1.118
DVC TO MPPTCL ( LTOA)	49.717
HIRAKUD TO CSEB	1.189
WBSEB TO MSEB ( NVVNL )	13.038
SIKKIM TO MSEB(NVVNL)	3.034
TATA HALDIA ( WB ) TO MSEB (TPTCL)	5.882
TRIPURA TO RINFRA MSEB(NVVNL)	4.982
ER ISGS TO S REGION(WHEELING)	0.573
TALCHER II-ER TO S REGION(WHEELING)	2.733
RIHAND (HYDRO) TO MPPTCL(LTOA)	3.251
MATATHILLA (HYDRO) TO MPPTCL(LTOA)	4.798
BSES(DTL) to MPSEB (RETL)	21.057
HARIYANA TO MPSEB(MPPL)	19.241
PSEB TO MPSEB(LANCO)	64.790
PSEB TO MSEB(NVVNL)	19.241
GOA (SR) TO GOA (WHEELING)	0.319
<b>NET IMPORT FROM NR</b>	<b>132.378</b>
<b>NET IMPORT FROM SR</b>	<b>0.319</b>
<b>NET IMPORT FROM ER</b>	<b>232.505</b>

<b>Lines</b>	<b>Export(Mus)</b>
MCPL MSEB TO JVVNL(GMRETL)	0.441
JBIL CSEB TO MEGHALAYA(RPTCL)	0.647
AFAL CESB TO TNEB(NVVNL)	1.27

BPIL CSEB TO TNEB(NVVNL)	0.064
CSEB TO TNEB(PTC LTD.)	5.784
CSPL CSEB TO TNEB(NVVNL)	0.529
GUVNL TO TNEB (TPTCL)	9.798
HFAL CSEB TO TNEB (NVVNL)	0.119
ISL CSEB TO TNEB(NVVNL)	0.1
JPL TO TNEB(NVVNL)	13.733
JPL TO TNEB(PTC LTD)	4.017
JPAL CSEB TO TNEB(NVVNL)	0.425
JEGL CSEB TO TNEB(NVVNL)	0.063
MIEL CSEB TO TNEB(NVVNL)	0.17
MSPPL CSEB TO TNEB(NVVNL)	0.107
MIELMH CSEB TO TNEB(NVVNL)	0.094
MSPSPL CSEB TO TNEB(NVVNL)	0.085
MECBL CSEB TO TNEB(NVVNL)	0.175
REAL ISPAT CSEB TO TNEB(NVVNL)	0.153
RREL CSEB TO TNEB(NVVNL)	0.23
RSIPIL CSEB TO TNEB(NVVNL)	0.096
SNIL CSEB TO TNEB(NVVNL)	0.052
SPEL CSEB TO TNEB(NVVNL)	0.112
TPC MSEB TO TNEB(NVVNL)	1.604
VIL CSEB TO TNEB(NVVNL)	0.022
BALCO CSEB TO BSES_RAJ (LANCO)	29.533
GUVNL TO BSES_RAJ(PTC LTD)	52.483
GFL GUVNL TO BSES_RAJ (LANCO)	0.09
IIPL MSEB TO BSES_RAJ(LANCO)	9.039
MIEL CSEB TO BSES_RAJ(LANCO)	17.14
MIELMH CSEB TO BSES_RAJ(LANCO)	9.528
SEML CSEB TO BSES_RAJ(LANCO)	4.764
VIL GUVNL TO BSES_RAJ(LANCO)	4.851
GFL GUVNL TO BSES(DTL) (LANCO)	0.635
MIEL CSEB TO BSES(DTL) (LANCO)	0.712
ACC(KYMORE) MPSEB TO JVVNL(TPTCL)	2.419
AIDCPL CSEB TO JVVNL( TPTCL)	1.368
BALCO CSEB TO JVVNL(LANCO)	16.299
CSEB TO JVVNL(PTC LTD)	37.950
GUVNL TO JVVNL(LANCO)	22.560
GUVNL TO JVVNL(TPTCL)	51.431
GFL GUVNL TO JVVNL(LANCO)	6.005
GFL GUVNL TO JVVNL(TPTCL)	2.432
GSPL CSEB TO JVVNL(LANCO)	0.111
JPL TO JVVNL(PTC LTD)	39.150

JBIL CSEB TO JVVNL(RPGPTCL)	2.099
JEGL CSEB TO JVVNL(LANCO)	0.536
MCPL MSEB TO JVVNL(GMRETL)	1.236
MCPL MSEB TO JVVNL(NVVNL)	3.503
MIEL CSEB TO JVVNL(PTC LTD)	8.945
SKSIP CSEB TO JVVNL(LANCO)	5.067
TORRENT_GUVNL TO JVVNL(NVVNL)	61.791
UTCL CSEB TO JVVNL(GMRETL)	1.075
WELSPUN GUVNL TO JVVNL(TPTCL)	7.276
CSEB TO JK (NVVNL)	63.336
TPC MSEB TO NDPL(DTL)(TPTCL)	4.279
TORRENT_GUVNL TO NDPL(DTL)(NVVNL)	24.255
TORRENT_GUVNL TO NDPL(DTL)(PTC LTD.)	15.171
GUVNL TO RPPC(TPTCL)	21.996
SCPL CSEB TO RPPC(KISPL)	1.052
SSPL CSEB TO RPPC(KISPL)	2.790
APL TO UPCL(AEL)	25.882
MPSEB to APPCC (IEXL)	10.297
CSEB TO BESCOM(PTC LTD)	1.977
GUVNL TO BESCOM(PTC LTD)	4.868
JPL TO KSEB(RPGPTCL)	26.318
TORRENT_GUVNL TO KSEB(NVVNL)	25.405
ER ISGS TO S REGION(WHEELING)	1.069
TALCHER-II ER TO S REGION (WHEELING)	2.405
AFAL CESB TO TNEB(NVVNL)	1.734
BPIL CSEB TO TNEB(NVVNL)	4.394
CSEB TO TNEB(PTC LTD.)	10.656
CSPL CSEB TO TNEB(NVVNL)	7.325
GUVNL TO TNEB (TPTCL)	1.315
GPIL CSEB TO TNEB (NVVNL)	4.119
HFAL CSEB TO TNEB (NVVNL)	1.710
HPSL CSEB TO TNEB(NVVNL)	1.400
ISL CSEB TO TNEB(NVVNL)	1.465
JPL TO TNEB(NVVNL)	130.139
JPL TO TNEB(PTC LTD)	44.070
JPAL CSEB TO TNEB(NVVNL)	5.788
JEGL CSEB TO TNEB(NVVNL)	0.665
MIEL CSEB TO TNEB(NVVNL)	2.231
MSPPL CSEB TO TNEB(NVVNL)	1.536
MIELMH CSEB TO TNEB(NVVNL)	3.664
MSPSPL CSEB TO TNEB(NVVNL)	1.222
MECBL CSEB TO TNEB(NVVNL)	2.515

REAL ISPAT CSEB TO TNEB(NVVNL)	2.931
RREL CSEB TO TNEB(NVVNL)	3.296
RSIPIL CSEB TO TNEB(NVVNL)	1.308
SNIL CSEB TO TNEB(NVVNL)	3.542
SPEL CSEB TO TNEB(NVVNL)	1.611
TPC MSEB TO TNEB(NVVNL)	2.530
VGL CSEB TO TNEB(NVVNL)	6.594
VIL CSEB TO TNEB(NVVNL)	1.515
<b>NET EXPORT TO SR</b>	<b>321.61</b>
<b>NET EXPORT TO NR</b>	<b>558.789</b>
<b>NET EXPORT TO ER</b>	<b>39.89</b>

आवृत्ति रूपरेखा

a. Frequency Profile

MAXIMUM FREQUENCY( Inst.): आधिकतम आवृत्ती एकेकृत :	50.41
Minimum frequency(Inst) न्यूनतम आवृत्ती एकेकृत :	49.32
Average frequency औसत आवृत्ती	49.85

b. आवृत्ती वितरण प्रतिशत में Frequency distribution in %

HZ	<48.8	<48.8 - 49.2	49.2 -49.8	49.8-50.3	50.3-51.0	>51.0
%	0	0.35	43.61	54.41	1.63	0.00

Power Supply Position and Peak Demand / Met In Western Region

a. विद्युत पूर्ति की स्थिति Power Supply Position

	FEB-10			APR -09 TO FEB-10		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
<b>Gujarat</b>	5775	5333	7.65	66899	63715	4.76
<b>CSEB</b>	807	799	0.99	11116	10695	3.79
<b>MPSEB</b>	4034	3089	23.43	40424	33177	17.93
<b>Maharashtra</b>	10802	8627	20.14	117727	96403	18.11
<b>Goa</b>	247	244	1.21	2801	2744	2.03
<b>D&amp;D</b>	147	147	0.00	1665	1632	1.98
<b>DNH</b>	324	324	0.00	3552	3487	1.83
<b>Western Region</b>	22136	18563	16.14	244150	211854	13.23

**b. Peak Demand / Demand Met(MW)**

	<b>FEB-10</b>			<b>APR -09 to FEB-10</b>		
	<b>Requirement (MW)</b>	<b>Availability (MW)</b>	<b>Shortage (%)</b>	<b>Requirement (MW)</b>	<b>Availability (MW)</b>	<b>Shortage (%)</b>
<b>Gujarat</b>	9755	8800	9.79	10855	9964	8.21
<b>CSEB</b>	2709	2653	2.07	2996	2880	3.87
<b>MPSEB</b>	7719	6644	13.93	7719	6644	13.93
<b>Maharashtra</b>	18843	14364	23.77	19151	14801	22.71
<b>Goa</b>	476	448	5.88	476	453	4.83
<b>D&amp;D</b>	232	232	0.00	280	255	8.93
<b>DNH</b>	529	444	16.07	529	480	9.26
<b>Western **Region</b>	39054	32249	17.42	39208	32718	16.55

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



**PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR**

	Name of transmission line	<u>Length in ckt km.</u>	Total Locations(N os)	Commissioning Schedule	Remarks
<b>A</b>	<b>Gujarat</b>				
	<b>I)400kV Lines</b>				
1	Mundra-Varsana D/C	166	270	Jul'10	work under progress,ROW Problems
2	Tappar(Varsana)-Hadala	299.88	458	May'10	work under progress,ROW Problems
3	Essar - Hadala	226	353	May'10	work under progress,ROW Problems
4	LILO to kosamba from Asoj-ukai	64	95	May'10	Work under progress
5	Adani-Zerda Line no.2	661.12	921	Apr'11	Kept in abeyance as M/s APL backed out from PPA
6	Adani-Zerda Line no.1	661.12	921		LOI issued on 23.09.09, Firm has regretted the LOI
	<b>II)220kV Lines</b>				
1	Mangrol - Mobha D/C line	218	355	Jan'10	Line charged on 31.01.10
2	Chornia- Bala D/C	59.12	96	Feb'09	Line charged on 29.04.09
3	Lilo at Dinod of Vav - Zagadia line	10.2	17	March' 09	Line charged on 08.07.09
4	Lilo at Chitrod of Deodar - Anjar line	2.1	0	March'10	Line is ready , Control panel rectification work under progress
5	Lilo at Varsana of Shivilakha - Nanikhakhar	34	54	Jan'10	Work under progress, ROW problem
6	Mundra-Varsana D/C	166	256	Jan'10	Line charged on 26.01.10
7	LILO at Lakhani from Kansari- Tharad D/C	8	2	March' 10	Completed on 29.12.09
8	LILO at Botad of Kasor- Vartej line	38.8	60	March'10	Foundation work under progress
9	Varsana - Morbi	214	353	March'10	Work under progress, ROW problem
10	Viramgam - Salejada D/C	118	186	March'10	work under progress.
11	Lilo at Bhat of Viramgam - Salejada line	36	59	March'10	work under progress.
12	Nanikhakhar-Tunda Line	15.17	55	Nov'09	Line charged on 22.11.09
13	220 KV D/C Utran- Kosamba s/s from Vav-Zagadia line-I	86	143	Mar'10	work under progress, ROW Problem
14	220 KV D/C Utran- Kosamba s/s from Vav-Zagadia line-II	86	144	June'10	work under progress, ROW Problem
15	220 KV D/C GSEG(Hazira)- Kosamba line	124	197	Jul'10	Work under progress
16	220 KV D/C GPPC-Dhokadva line	100	167	Aug'10	Work under progress
17	LILO of one circuit of 220 KV D/C Savarkundla-Otha line at GPPC	93	151	Aug'10	Work under progress
18	LILO of 220 KV Morbi-Halvad line 1 at 400 KV Bhimasar (PG) S/S	215	331	Jan'11	Check survey work under progress
19	LILO of 220 KV Morbi-Halvad line 2 at 400 KV Bhimasar (PG) S/S	210	329	Jan'11	Check survey work under progress

20	220 KV GSEG(Hazira)-Mota line	111.06	182	Oct'10	Check survey work under progress
21	220 KV D/C Nakhatrana-Varsana line	190	295	Dec'10	Check survey work under progress
<b>B)</b>	<b>Madhya Pradesh</b>				
	<b>I) 400kV Lines</b>				
			NIL		
	<b>II) 220kV Lines</b>				
1	Lilo of 1st ckt DCDS200KV Gwalior-Malanpur at 400kv Gwalior PGCIL S/S	16.4	31	2009-10	Work restarted and is nearing completion
2	Satna - Chhatapur line	156.32	521	2010-11	Work under progress
3	Amarkantak- Birsinghpur DCDS at 400kv s/s Sukha ( PGCIL )	331.8	547	2010-11	Work under progress
4	220KV Chhindwara- 400kv PGCIL Seoni D/C	140	227	2008-09	Line charged on 20.05.09
5	LILLO of one ckt of 200kv Jabalpur - Itarsi at Piparia s/s	7.2	13	2009-10	Line charged on 24.09.09
6	200kv Bhopal( 400kv)-Ashta for Ashta s/s	194.94	322	2009-10	Line charged on 08.12.09
7	Sujalpur PGCIL(400KV)-220KV Rajgarh Biaora line	137.36	227	2008-09	Line charged on 18.08.09
8	Jabalpur-Narsingpur part line for 400kv PGCIL Sukha	153.14	252	2009-10	Work almost completed, charging being arranged
9	Chhindwara- Betul	270	458	2009-10	Work almost completed, railway crossing work balance
10	Chegoan - Nimrani	205	346	2010-11	Work almost completed, charging being arranged
11	Lilo of one ckt of 200kv Satpura - Itarsi for Handia	168.86	273	2010-11	Line charged on 07.02.10
12	Rerouting of 220kv Makronia traction feeder through 220 kv Sagar	10.18	21	2008-09	Line charged on 12.06.09
13	LILLO of 2nd ckt of 220 kv Pithampur-Ratlam line for 220kv Badnagar	20.25	35	2008-09	Line charged on 10.12.09
14	LILLO of 2nd ckt of 220kv Itarsi - Bhopal for 220kv Hosangabad	10.75	20	2009-10	Line charged on 28.11.09
15	Astha - Bercha line	45	158	2009-10	Work in progress
16	Maheshwar - Pithampur	108	189	2010-11	Forest approval received on 01.01.09, work in progress
17	Maheshwar - Nimrani	52.1	92	2010-11	Work almost completed, charging being arranged
18	Maheshwar - Rajgarh	230	403	2011-12	Forest approval not yet received.work not commenced
19	Lilo of one ckt of 220kv Bhopal-Bina for Vidisha new s/s	42.32	71	2009-10	Work organised through other agency & is in progress
20	Dewas - Astha line	144	240	2010-11	Work in progress
<b>C)</b>	<b>Chhatisgarh</b>				
	<b>I) 400kV Lines</b>				
1	LILLO of 400 kV Korba(west)-Bhilai to Raipur DCDS	25	77	Dec'10	Profile of 19.937 km has been approved.

2	400 kV Korba(West) – Khedamara DCDS	224	640	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	509	2009-10	Payment for forest compensation ha been made, work will start after second phase approval of forest.
2	Lilo of 220kv Bhatapara-Raipur ( PGCIL )at Doma	21.47	76	Apr'10	Work under progress
3	Suhela- PGCIL Bhatapara DCDS line	13.53	45+2G+1B	2009-10	Line charged on 22.12 .09
4	I/C Raigarh -PGCIL Raigarh DCDS	10.39	37+6G	2008-09	Charged on 15.04.09
5	LILO of Korba- Sitara at Mopka DCDS	12.14	47	Mar'10	Work in progress
6	220 KV DCSS line b/w 400 KV s/s Bhilai & Rajnandgaon+1 bay at Khedmara	49.82	159	2009-10	Line charged at 18.07.09
7	220 KV DCSS Kheedmara - 220KV s/s Bemtara + 1 no. bay at Khedmara & 1 no. at Betemara	50.9	157	Mar'10	Work under progress
8	Chhuri - Mopka DC DS line	90		May'11	Profile of 34.84 km has been approved
9	I/C between new power house at Korba ( E )to proposed 220 kv Chhuri	30		2009-10	Work to be taken up
10	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
11	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		2009-10	Work to be taken up
12	Diversion of 220 KV Korba- Amarkantak Ckt-I & II to proposed 200/132 KV Chhuri s/s DCSS	4		2009-10	Land aaquisition under progress

<b>D)</b>	<b>Maharashtra</b>				
	<b>I) 400kV Lines</b>				
1	Dabhol-Nagothane ckt-II	135.56	337	Dec'09	Work in progress, Diversion of route at Vadvalli approved.
2	Diversion of Chandrapur-Parli S/C for WCL	7.5	20	June'09	Line charged on 24.11.09
3	Diversion of Chandrapur-Parli D/C for WCL	29	40	June'09	Line is charged on 01.12.09
4	Bhusawal-II -A'rangabad ( location 1-270)	190	283	June'10	work in progress
5	Bhusawal -A'rangabad ( location 270-Waluj)	88.02	246	Mar'10	work in progress
6	Jaigad-New Koyna D/C	114	160	Mar'10	work in progress
7	Jaigad-New Karad D/C	224	322	June'10	work in progress
8	Bhusawal-II to existing 400kv Khadka	15	26	Mar'10	work in progress
9	LILO on Lonikhand-Padge at Chakan	3	5	July'09	Line charged on 29.12.09
10	New Khaerkheda- Koradi S/C	5	13	July'09	Work in progress
11	LILO on 400KV Koradi-Chandrapur at new Khaperkheda	2.88	8	July'09	Line charged on 29.12.09
12	400 KV D/C line from Chandrapur-Wardha via Warora	123	335	Apr'11	Work in progress
13	400 KV line from Koradi TPS-Wardha s/s	120	329	Apr'11	Work in progress
	<b>II) 220kV Lines</b>				
1	Lilo of Tarapur-Borivali for 220KV Boisar-II s/s	8	15	Mar'10	Court case at loc. No 11
2	220 KV linefrom PGCIL to 220KV Wardha s/s	57	210	Mar'10	work held up due to court case .
3	Lilo of Nasik-Kalwa ckt. 3&4 for Bapgaon s/s	3	9	Mar'10	work held up due to local prob.
4	Nagothane-Wadkhal D/C	30	93	Mar'10	Extension of contract is under process at C.O
5	Lilo of Padge- Kalwa at Temghar s/s	1.5	8	June'09	work is obstructed by locals & anti social elements.
6	Lilo of 220 KV Mulund-Borivali of XLPE underground cable for Bhandup	3		Dec'09	Permission for U/G cable duct is awaited from MCGM
7	220 KV D/C from Phursungi s/s - 400 KV Jejuri s/s	62	102	Mar'10	Work under progress
8	Lilo on 220KV Chinchwad-Kandalgaon for Hinjewadi-II	10	39	June'09	Line is commissioned on 17.09.09
9	220 KV D/C on M/C tower from 400 KV PGCIL Talegaon to 220 KV Urse s/s	10.27	40	Dec'09	One circuit commissioned on 21.08.08 . Court case for 2nd ckt stringing b/w location 4 & 5 is carried out on 21.02.09
10	Shifting of Telco Bhosari interconnectig bay at Chinchwad s/s	0.5	6	Dec'09	Work stopped as s/s gantry not erected. & 22 KV line shifting is to be done by MSEDCL.
11	220kv line from 400kv Chakan to M/S Volkas wagen Chakan	2.34	14	June'09	Line is commissioned on 31.12.09

12	220 KV D/C line M/C towers LILO to 220 KV Bhosari-Chinchwad line at 400 KV chakan s/s	18		Dec'09	Permission for line through MIDC for 10 mts corridor is asked to MIDC authorities . MIDC not ready to give 10 mt corridor
13	220 KV Lilo on 2nd circuit Kohlapur-Phonda line 220 KV Mumewadi	2	2	May'09	Work in progress
14	220 KV Lilo on 2nd circuit Kohlapur-Phonda line 220 KV Halkarni	20	33	Oct'09	Work in progress
15	Chitegaon-Shendra D/C	43.1		Mar'10	Excavation work in progress
16	220 KV lilo on Pusad-Girawali for Hingoli	44	75	Sep'09	Work in progress
17	Reorientation of Padegaon I&II, Bableshtar	8	14	Dec'09	Work in progress
18	Beed - Patoda D/C	45	146	June'10	Work in progress
19	Parli TPS-Nanded M/C line (Waghala)	90.3		June'10	Work in progress
20	Jaina- Chikhali D/C	150	248	Dec'10	Work in progress
21	220kv D/C on D/C tower from 400kv Bhusawal-II to 220kv Amalner	182	326	Mar'10	Work in progress
22	220kv D/C line on M/C tower from new Bhusawal s/s to existing 400kv Khadka	20	53	Nov'09	Work in progress
23	220 KV D/C on D/C Tower from Jeur-Paranda	30	115	June'10	Check survey in progress, work not started.
24	220 KV Koradi-Butibori II D/C line on M/C tower at 400 KV Koradi s/s	53	176	Nov'10	Work in progress
25	220 KV Paras-Balapur D/C on M/C	5.61	30	Mar'10	Work in progress
26	LILO of 220 KV Wardha - Badnera D/C line for evacuation of power from 765 KV Wardha s/s	20	36	June'09	Line charged on 19.01.10
27	LILO on 220 KV Chandrapur-Warora for 220 KV Wani	46	84	Dec'09	Work in progress
28	220 kV New Khaparkheda-Khaparkheda s/s	3.5	19	Dec'09	Work in progress
<b>Sl.No</b>	<b>POWERGRID</b>				
	<b>765 kV &amp; 400kv</b>				
<b>A)</b>	<b>Sipat II supplementary Trans system</b>				
1	400 Kv Akola – Aurangabad D/C	482	652	Nov'09	Line commissioned on 30.11.09
2	765 KV S/C Seoni(PG)-Wardha(PG) (initially to be operated at 400 KV)	268	724	Apr'09	Comml operation from 01.04.09
3	400 KV D/C Wardha - Akola	324	437	Apr'09	Comml operation from 01.04.09

B)	W R Strengthening scheme-II				
<b>For Absorbing import in Eastern and Central part of WR</b>					
1	765 kv 2nd s/c Seoni(PG)-Wardha(PG)	270	734	Mar'11	
2	400 KV Wardha(PG)-Parli(PG) D/C(quad.)	674	895	Dec'10	Forest clearance awaited
3	400 KVRaipur(PG) - Wardha(PG) D/C	741	989	July'10	Work affected due to ROW problem
4	400 KV Bhadravati(PG)-Parli(PG) D/C	776	1046	July'10	Work affected due to ROW problem
5	400 KVParli ( MSEB)-Parli (PG) D/C	14		July'10	Engg & survey under progress
<b>For Regional strengthening in southern Maharashtra to be implemented through IPTC Route by WR transmission (Mah)</b>					
6	400 KV Parli (PG)-Pune D/C	646	886	June'11	Objection from KEIPL SEZ on the line routing near Pune end.
7	400 KV Pune (PG)-A'bad(MSEB) D/C	450	623	Apr'11	Objection from KEIPL SEZ on the line routing near Pune end.
8	400 KV Parli(PG)- Solapur D/C	272	355	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	575	May'11	All cases submitted for forest clearance
10	Lilo of L'khand(MSEB)-Kalwa(MSEB) at Pune( PG) D/C	2.4	8	Feb'10	WRTPL taken up the matter with MSETCL for clearance of LILOfing of this line
11	Lilo of Solapur(MSEB)-Karad(MSEB) D/C at Solapur ( PG)	52	297	May'10	WRTPL taken up the matter with MSETCL for clearance of LILOfing 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	652	Mar'11	Forest clearance awaited
13	400 KV Limdi(GEB)-Ranchodpura(GEB) D/C	206	265	Dec'10	
14	400 KV Ranchodpura(GEB)-Zerda(GEB) D/C	280	373	Dec'10	
<b>For Regional strengthening in Northern Madhya Pradesh</b>					
15	765KV Bina(PG)- Gwalior(PG) 2nd ckt.	233	624	Mar'10	Line commissioned on 01.03.10
16	400 KV Korba(NTPC)-Birsinghpur(MPSEB) D/C	453	644	Mar'11	Ist stage forest clearance received
17	400 KV Birsinghpur-Damoh (PG) D/C	452	637	July'10	
18	400 KV Damoh(PG)-Bhopal(MPSEB) D/C	430	576	Mar'10	Erection completed, testing under progress
<b>Transmission system associated with Gandhar-II(GBPP)</b>					
19	400 KV Gandhar-Kawas D/C	190		*	* 33 month from investment approval or from tying up date of FSA by NTPC whichever is later
20	400 KV Gandhar-Rajkot D/C	600		*	
21	400 KV Lilo of Bina- Nagda D/C at Shujalpur	60		*	

<b>WR strengthening system-V</b>					
22	400 KV Vapi- Navi Mumbai D/C	258	385	Mar'11	Severe ROW problem
23	Vapi- Khadoli 220kv D/C	56	107	Apr'10	Severe ROW problem
24	Lilo of L'khand-Kalwa S/C at Navi Mumbai	10	30	Mar'11	Severe ROW problem
<b>WR strengthening system-VI</b>					
25	400 KV Dehgam Pirana D/C	92	139	June'10	
<b>WR strengthening system-IX</b>					
26	LILo of 400 KV Bina-Nagda Line at Sujalpur	60		Jan'11	Award placed in Nov'09
<b>WR strengthening system-X</b>					
27	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>					
28	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>					
29	400 KV D/C Korba STPS-Raipur line	430	638	June'11	Effort is being made to complete the line earlier
<b>Transmission system associated with Mundra UMPP</b>					
30	400 KV D/C Mundra-Limbdi	626	838	Dec'11	Wild life sanctuary portion clearance awaited
31	400 KV D/C Mundra-Bachchauranchodpur	764	1028	Feb'11	Wild life sanctuary portion clearance awaited
32	400 KV D/C Mundra-Bachchauranchodpur	666	900	Mar'12	Wild life sanctuary portion clearance awaited
33	400 KV D/C Gandhar-Navsari line	212	299	Dec'11	River crossing
34	400 KV D/C Navsari-Mumbai	408		Oct'12	01 out of 02 package awarded.
35	400 KV D/C Wardha-Aurangabad	800		Oct'12	Tendering under progress
36	400 KV D/C Aurangabad-Aurangabad(MSETCL)line	60		Oct'12	Tendering under progress
37	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>					
38	765 KV Sasan-Satna Line-I	257	694	Dec'12	
39	765 KV Sasan-Satna Line-II	260	705	Dec'12	Tower package awarded
40	765 KV Satna-Bina Line I	279	758	Dec'12	
41	765 KV Satna-Bina Line II	274	738	Dec'12	
42	765 KV Sasaram-Fatehpur line II	352		Dec'12	Tendering under progress
43	765 KV Agra-Fatehpur line	340		Dec'12	Tendering under progress
44	400 KV Bina-Bina(MPPTCL)line	10		Dec'12	Award placed in Mar'09,Engg. Under progress
45	LILo of both ckt of Vindhyanchal - Jabalpur 400 KV D/C at Sasan	10		Dec'12	Award placed in Feb'09,Engg. Under progress
46	765 KV Bina-Indore line	320	850	Dec'12	
47	400 KV Indore-Indore(MPPTCL) line	120	154	Dec'12	
<b>INTER-REGIONAL LINES</b>					

<b>East-West transmission corridor strengthening scheme</b>					
1	400 KV Ranchi- Rourkela D/C	288	401	June'10	ROW Problem
2	400 KV Raigarh-Rourkela D/C	440	586	June'10	
3	400 KV Raigarh-Raipur	440	584	Apr'10	
<b>Transmission system associated with Barh Generation project</b>					
1	765 kv Seoni-Bina S/C	293	788	Mar'10	Line ready CEA inspection to be done
<b>Transmission system associated with North West Transmission corridor strengthening scheme</b>					
1	765 KV Agra-Gwalior 2nd S/C line	128	336	Mar'09	Commml operation from 01.04.09



**GENERATION SCHEMES UNDER CONSTRUCTION IN WESTERN REGION**

Sr.No.	Name of the power project	Unit No.	Capacity( MW)	commissionig schedule
A	<b><u>GUJARAT</u></b>			
1	Surat lignite expansion- GIPCL	1	125	Feb-10
		2	125	Mar-10
2	Sikka TPP extn	3	250	Jan-10
		4	250	May-10
3	Ukai TPS extn	6	490	Feb-11
4	Pipavav CCPP-GPCL & GSPC joint venture	block 1	350	Sep-10
		block 2	350	Mar-11
5	Mundra TPP ph-2 (Adani power )	3	330	Jan-10
		4	330	Apr-10
6	Mundra ultra mega TPP ( TATA)	1	800	Sep-11
		2	800	Sep-12
7	Hazira CCPP Expansion GSEG	GT+ST	350	Apr-10
	<b>OTHER PROJECTS</b>			
1	Gujarat lignite NLC&GPCL joint venture	Stage 1	1500	2011-12
		Stage 2	500	2012-13
2	Dhuvaran CCPP GSECL	Stage 3	360	2009-10
3	Pipavav TPP - Torrent power		1000	2011-12
4	Bhavnagar lignite TPP - Joint vent		500	Apr-11
5	Mundra STPP ( Adani power ltd)	1	660	Jan-11
		2	660	Jun-11
B	<b><u>MADHYA PRADESH</u></b>			
1	Amarkantak TPS	2	500	Apr-11
2	Satpura TPS ext.	10	250	Nov-10
		11	250	Mar-11
	<b>OTHER PROJECTS</b>			
1	Maheshwar HEP		400	2010-2011
2	Malwa TPP	1	500	Dec-10
C	<b><u>CHATTISGARH</u></b>			
1	Lanco Amarkantak PL	2	300	Aug-10
2	Marwa TPP	1	500	Sep-12
		2	500	Nov'12
3	Korba west -III TPP	1	500	Jun-12
	<b>OTHER PROJECTS</b>			
1	Bhaiyathan TPP Phase 1	1	500	Dec-12
		2	500	Aug-13
2	IFFCO	1	660	Aug-12
			660	Dec-12

D	<b><u>MAHARASHTRA</u></b>			
1	New Parli TPS Extn.	2	250	test syn. On 12.11.09
2	Paras TPS Extn	2	250	test syn. On 30.11.09
3	Khaperkheda TPS Extn.	1	500	Mar-10
4	Bhusawal Extn. TPP	1	500	May-10
		2	500	Sep-10
5	TrombayTPS extn. ( TATA )	8	250	Comisioned on 14.01.09
6	JSW Ratnagiri TPP ( JSW Ltd.)	1	300	June'10
		2	300	Sep'10
		3	300	Dec'10
		4	300	Mar'11
	<b><u>OTHER PROJECTS</u></b>			
1	Koradi TPS extn	1	800	Oct-12
2	Dhopawe TPS	1	800	Nov-11
		2	800	May-12
3	Utran CCPP	block 1	700	Feb-10
		block 2	340	May-10
4	Koradi TPS extn.( replacement)	1	800	Apr-12
5	Parli TPS ( replacement )	1	250	May-10
6	Paras TPS ( replacement )	1	250	May-10
7	Bhusawal TPS ( replacement )	1	250	May-10
8	Chandrapur TPS Extn	1	500	Dec-11
		2	500	May-12
E	<b><u>CENTRAL SECTOR</u></b>			
1	Sipat TPP	1	660	Nov'10
		2	660	May'11
		3	660	Nov'11
2	Korba STPS - III	7	500	Feb-10
3	Mauda TPP	1	500	2011-12
		2	500	2012-13

### NEW GENERATING PLANTS COMMISSIONED IN 2009-10 IN WR

<b>GUJARAT</b>				
1	Sugen CCPP-Torrent power	1	382.5	Commissioned on 20/11/08
		2	382.5	Commissioned on 07/05/09
		3	382.5	Commissioned on 08/06/09
2	Mundra(Adani)	1	330	Commissioned on 04/08/09
		2	330	Synchronised on 25/01/10
3	Utran GPP	GT+ST	374(228+146)	Commissioned on 10/10/09
4	Kutch lignite	4	75	Commissioned on 01/10/09

	<b>CHATTISGARH</b>			
5	Pathadi TPP	1	300	Synchronised on 13/05/09
6	LANCO Amarkantak PL	1	300	Commissioned on 04/06/09
	<b>MAHARASHTRA</b>			
7	New Parli TPS ext(Parli 7)	2	250	Synchronised on 12/11/09
8	Paras TPS Ext (Paras 4)	2	250	Synchronised on 30/11/09
	<b>CENTRAL SECTOR</b>			
9	Bhilai TPP	1	250	Commissioned on 12/07/09

**दिनांक 28 | 02 | 2010 को राज्यानुसार संस्थापित क्षमता**  
**INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS ON 28.02.2010**

(All fig. in MW)

State	Ownership	Hydro	Coal	Gas	Nuclear	Total	Diesel	RES	Total
Gujarat	State	772.00	4190.00	892.72	0.00	5854.72	17.28	24.30	5896.30
	Private	0.00	980.00	2577.50	0.00	3557.50	0.20	1619.61	5177.31
	Central(firm allo)	0.00	1462.00	424.00	559.00	2445.00	0.00	0.00	2445.00
	Total	772.00	6632.00	3894.22	559.00	11857.22	17.48	1643.91	13518.61
Madhya Pradesh	State	1703.67	2932.50	0.00	0.00	4636.17	0.00	71.76	4707.93
	Private	0.00	0.00	0.00	0.00	0.00	0.00	215.90	215.90
	Central(firm allo)	1520.00	1450.32	257.00	273.00	3500.32	0.00	0.00	3500.32
	Total	3223.67	4382.82	257.00	273.00	8136.49	0.00	287.66	8424.15
Chhattisgarh	State	120.00	2280.00	0.00	0.00	2400.00	0.00	19.05	2419.05
	Private	0.00	1300.00	0.00	0.00	1300.00	0.00	187.90	1487.90
	Central(firm allo)	0.00	493.00	0.00	48.00	541.00	0.00	0.00	541.00
	Total	120.00	4073.00	0.00	48.00	4241.00	0.00	206.95	4447.95
Maharashtra	State	2884.83	7050.00	912.00	0.00	10846.83	0.00	223.72	11070.55
	Private	447.00	1900.00	180.00	0.00	2527.00	0.00	2204.25	4731.25
	Central(firm allo)	0.00	1953.66	2624.00	690.00	5267.66	0.00	0.00	5267.66
	Total	3331.83	10903.66	3716.00	690.00	18641.49	0.00	2427.97	21069.46
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	277.00	0.00	26.00	303.00	0.00	0.00	303.00
	Total	0.00	277.00	48.00	26.00	351.00	0.00	30.05	381.05
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	18.32	4.00	7.00	29.32	0.00	0.00	29.32
	Total	0.00	18.32	4.00	7.00	29.32	0.00	0.00	29.32
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	21.00	27.00	9.00	57.00	0.00	0.00	57.00
	Total	0.00	21.00	27.00	9.00	57.00	0.00	0.00	57.00
WR	State	5480.50	16452.50	1804.72	0.00	23737.72	17.28	338.88	24093.88
	Private	447.00	4180.00	2805.50	0.00	7432.50	0.20	4257.66	11690.36
	Central(firm allo)*	1520.00	5675.30	3336.00	1612.00	12143.30	0.00	0.00	12143.30
	Unallocated	0.00	950.00	197.59	228.00	1375.59	0.00	0.00	1375.59
	Total	7447.50	27257.80	8143.81	1840.00	44689.11	17.48	4596.54	49303.13

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

\* Kahalgaon STPP stage II U#7 (500MW) of NTPC station in ER commissioned (i.e. achieved full load) on 31.07.09

Firm allocation of WR beneficiaries viz Guj-47,MP-24.66,Chh-10,Mah-49.33,Goa-0,DD-0.66 and DNH-1.00 MW totalling to

\* RES capacity revised to 4596.54 MW from 4563.18 MW

## Generating Station Details

### SUMMARY OF WESTERN REGION

SL. NO.	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
TOTAL REGION	HYDRO		7749.86		7745.86
	THERMAL		24477.5		24487.5
	GAS		8143.81		8076.81
	DIESEL		17.48		17.48
	WIND+RES+SHP		3130.94		3130.94
	NUCLEAR		1840		1840
GRAND TOTAL (WESTERN REGION)			45359.59		45298.59

### CENTRAL SECTOR GENERATING STATIONS

#### NTPC

TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
THERMAL	KSTPS	3x200+3x500	2100	3x200+3x500	2100
	VSTPS	6x210+4x500	3260	6x210+4x500	3260
	Sipat STPS-II	2X500	1000	2X500	1000
TOTAL THERMAL (NTPC)			6360		6360
GAS	KAWAS	4x106+2x116.1	656.20	4x106+2x116.1	656.20
	GANDHAR	3x144.3+1x224.49	657.39	3x144.3+1x224.49	657.39
TOTAL GAS (NTPC)			1313.59		1313.59
GRAND TOTAL (NTPC)			7673.59		7673.59

#### NPICL

TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
NUCLEAR	TAPS	2x160+2x540	1400	2x160+2x540	1400
	KAPS	2x220	440	2x220	440
TOTAL NUCLEAR (NPICL)			1840		1840

#### CENTRAL SECTOR SUMMARY

TOTAL CENTRAL SECTOR	THERMAL		6360		6360
	GAS		1313.59		1313.59
	NUCLEAR		1840		1840
GRAND TOTAL (CENTRAL SECTOR)			9513.59		9513.59

#### IPP

	JINDAL TPP	4x250	1000	4x250	1000
	LANCO-Amarkantak	1x300	300	1x300	300
	Mundra APL	2x330	660	2x330	660
			1960		1960

### STATE SECTOR GENERATING STATIONS

#### GUJARAT

TYPE	STATION	INSTALLED CAPACITY		EFFECTIVE CAPACITY	
		UNITS	TOTAL (MW)	UNITS	TOTAL (MW)
HYDRO	UKAI	4x75	300	4x75	300
	UKAI (LBCH)	2x2.5	5	2x2.5	5
	KADANA	4x60	240	4x60	240
	PANAM CANAL	2x1	2	2x1	2
	SARDAR SAROVAR	16% of 1450	232	16% of 1450	232
TOTAL HYDRO			779		779
THERMAL	A.E.Co.	1x60+3x110	390	1x70+3x110	400
	DHUVARAN	2x110	220	2x110	220
	UKAI	2x120+2x200+1x210	850	2x120+2x200+1x210	850
	GANDHI NAGAR	2x120+3x210	870	2x120+3x210	870
	WANAKBORI	7x210	1470	7x210	1470
	SIKKA	2x120	240	2x120	240
	KUTCH LIGNITE	2x70+2x75	290	2x70+2x75	290

	SURAT LIGNITE	2x125	250	2x125	250
	AKRIMOTA	2x125	250	2x125	250
<b>TOTAL THERMAL</b>			<b>4830</b>		<b>4840</b>
<b>GAS</b>	DHUVARAN	1x218.62	218.62	1x218.62	218.62
	TORRENT POWER	2X32.5+35.0(ST)	100	2X32.5+35(ST)	100
	UTRAN-I	3x33+1x45	144	2x30+1x32+1x45	137
	UTRAN-II	1X228+1X146(ST)	374	1X228+1X146(ST)	374
	GIPCL	1x106+1x54	160	1x106+1x54	160
	ESSAR	3x110+1x185 (ST)	515	3x110+1x185	515
<b>GAS</b>	GPEC	3x135+1x250	655	3x135+1x250	655
	GSEG HAZIRA	2x52+1x52.1 (ST)	156.1	2x52+1x52.1 (ST)	156.1
	SUGEN	3X382.5	1147.5	3X382.5	1147.5
<b>TOTAL GAS</b>			<b>3470.22</b>		<b>3463.22</b>
<b>TOTAL GUJARAT</b>			<b>779</b>		<b>779</b>
	HYDRO		4830		4840
	THERMAL		3470.22		3463.22
<b>GRAND TOTAL (GUJARAT)</b>			<b>9079.22</b>		<b>9082.22</b>
<b>MADHYA PRADESH</b>					
<b>TYPE</b>	<b>STATION</b>	<b>INSTALLED CAPACITY</b>		<b>EFFECTIVE CAPACITY</b>	
		<b>UNITS</b>	<b>TOTAL (MW)</b>	<b>UNITS</b>	<b>TOTAL (MW)</b>
<b>HYDRO</b>	GANDHI NAGAR	5x23 (50%)	57.5	5x23 (50%)	57.5
	R P SAGAR	4x43 (50%)	86	4x43 (50%)	86
	J SAGAR	3x33 (50%)	49.5	3x33 (50%)	49.5
	PENCH SHARE	2x80 (66.67%)	106.7	2x80 (66.67%)	106.7
	BANASAGAR TONS	1x315	315	1x315	315
	BARGI	2x50	100	2x50	100
	BANASAGAR	1x30+1x60+1x20	110	1x30+1x60+1x20	110
	BIRSINGHPUR	1x20	20	1x20	20
	RAJGHAT	3x15(50%)	22.5	3X15(50%)	22.5
	INDIRA SAGAR	8x125	1000	8x125	1000
	MADHIKHEDA HEP	2X20	40	2X20	40
	MINI & MICRO HYDRO	13.5	13.5	3.25	13.5
*	Omkareswar Hydro	8x65	520	8x65	520
	SARDAR SAROVAR	57% of 1450	826.5	57% of 1450	826.5
<b>TOTAL HYDRO</b>			<b>3267.20</b>		<b>3267.2</b>
<b>THERMAL</b>	AMARKANTAK	2X120+1X210	450	2X120+1X210	450
	SATPURA-I	5x62.5 (60%)	187.5	5x62.5 (60%)	187.5
	SATPURA-II	1x200+1x210	410	1x200+1x210	410
	SATPURA-III	2x210	420	2x210	420
	S GANDHI TPS	4x210	840	4x210	840
	S GANDHI TPS	1x500	500	1x500	500
<b>TOTAL THERMAL</b>			<b>2807.5</b>		<b>2807.5</b>
<b>TOTAL MADHYA PRADESH</b>			<b>3267.2</b>		<b>3267.2</b>
	HYDRO		2807.5		2807.5
	THERMAL		6074.7		6074.7
<b>GRAND TOTAL (MADHYA PRADESH)</b>			<b>6074.7</b>		<b>6074.7</b>
<b>CHHATISGARH</b>					
<b>TYPE</b>	<b>STATION</b>	<b>INSTALLED CAPACITY</b>		<b>EFFECTIVE CAPACITY</b>	
		<b>UNITS</b>	<b>TOTAL (MW)</b>	<b>UNITS</b>	<b>TOTAL (MW)</b>
<b>HYDRO</b>	HASDEO BANGO	3x40	120	3x40	120
	Gangrel	1x5	5	1x5	5
<b>TOTAL HYDRO</b>			<b>125</b>		<b>125</b>
<b>THERMAL</b>	KORBA (E)	4x50+2x120	440	4X50+2X120	440
	KORBA (W)	4x210	840	4x210	840
*	KORBA (E) ext-I	2x250	500	2x250	500
<b>TOTAL THERMAL</b>			<b>1780</b>		<b>1780</b>
<b>TOTAL CHHATISGARH</b>			<b>125</b>		<b>125</b>
	HYDRO		1780		1780
	THERMAL		1905		1905
<b>GRAND TOTAL (CHHATISGARH)</b>			<b>1905</b>		<b>1905</b>
<b>MAHARASHTRA</b>					
<b>TYPE</b>	<b>STATION</b>	<b>INSTALLED CAPACITY</b>		<b>EFFECTIVE CAPACITY</b>	
		<b>UNITS</b>	<b>TOTAL (MW)</b>	<b>UNITS</b>	<b>TOTAL (MW)</b>
<b>HYDRO</b>	KOYNA I & II	4x(65+5) + 4x(75+5)	600	4x(65+5) + 4x(75+5)	600
	KOYNA III	4x80	320	4x80	320
	KOYNA DPH	2x20	40	2X18	36
	KOYNA IV	4x250	1000	4x250	1000
	KHOPOLI	1 TO 8	96	1 TO 8	96

TATA HYDRO	BHIVPURI	1 TO 7	99	1 TO 7	99	
	BHIRA	6x25	150	6x25	150	
	BHIRA PSS	1x150	150	1x150	150	
	VAITHARNA	1x60+1x1.5	61.5	1x60+1x1.5	61.5	
	ELDARI	3x7.5	22.5	3x7.5	22.5	
	VEER & BHATGAR	2x4.5+1x16	25	2x4.5+1x16	25	
	PAITHAN	1x12	12	1x12	12	
	TILLARI	1x60	60	1x60	60	
	RADHANAGRI	4x1.2	4.8	4x1.2	4.8	
	BHIRA T/R	2x40	80	2x40	80	
	BHANDARDHARA	1 & 2	46	1 & 2	46	
	DUDHGANGA	2x12	24	2x12	24	
	PENCH DRAWAL	2x80 (33.33%)	53.33	2x80 (33.33%)	53.33	
	PAWANA	1x10	10	1x10	10	
	BHATSA	1x15	15	1x15	15	
	DHOM	2x1	2	2x1	2	
	KANHAR	1x4	4	1x4	4	
	MANIKDOH	1x6	6	1x6	6	
	UJJANI	1x12	12	1x12	12	
	DIMBHE	1x5	5	1x5	5	
	SURYA	1X6+1X0.75	6.75	1x0.75+1x6	6.75	
	PANSHET	1x8	8	1x8	8	
	VARASGAON	1x8	8	1x8	8	
	WARNA	2x8	16	2x8	16	
	YEOTESHWAR	1x0.08	0.08	1x0.08	0.08	
	TERWANMEDHE	1x0.2	0.2	1x0.2	0.2	
	GHATGHAR	2x125	250	2x125	250	
	SARDAR SAROVAR	27% of 1450	391.5	27% of 1450	391.5	
	<b>TOTAL HYDRO</b>			<b>3578.66</b>		<b>3574.66</b>
	<b>THERMAL</b>	<b>CHANDRAPUR</b>	<b>4x210+3x500</b>	<b>2340</b>	<b>4x210+3x500</b>	<b>2340</b>
		<b>TROMBAY</b>	<b>1x150+2x500+1X250</b>	<b>1400</b>	<b>1x150+2x500+1X250</b>	<b>1400</b>
		<b>KORADI</b>	<b>4x105+1x200+2x210</b>	<b>1040</b>	<b>4x105+1x200+2x210</b>	<b>1040</b>
		<b>NASIK</b>	<b>2x125+3x210</b>	<b>880</b>	<b>2x125+3x210</b>	<b>880</b>
		<b>KHAPERKHEDA</b>	<b>4x210</b>	<b>840</b>	<b>4x210</b>	<b>840</b>
		<b>PARLI</b>	<b>2x20+3x210</b>	<b>670</b>	<b>2x20+3x210</b>	<b>670</b>
		<b>BHUSAWAL</b>	<b>1x55+2x210</b>	<b>475</b>	<b>1x55+2x210</b>	<b>475</b>
		<b>REL DAHANU</b>	<b>2x250</b>	<b>500</b>	<b>2x250</b>	<b>500</b>
		<b>PARAS</b>	<b>1x55</b>	<b>55</b>	<b>1x55</b>	<b>55</b>
	*	<b>PARAS</b>	<b>1x250</b>	<b>250</b>	<b>1x250</b>	<b>250</b>
	*	<b>NEW PARLI</b>	<b>1x250</b>	<b>250</b>	<b>1x250</b>	<b>250</b>
<b>TOTAL THERMAL</b>			<b>8700</b>		<b>8700</b>	
<b>GAS</b>	<b>TROMBAY-7A &amp; 7B</b>	<b>120+60</b>	<b>180</b>	<b>120+60</b>	<b>180</b>	
	<b>URAN (G)</b>	<b>4x60+4x108</b>	<b>672</b>	<b>3x60+4x108</b>	<b>612</b>	
	<b>URAN-DPH</b>	<b>2x120</b>	<b>240</b>	<b>2x120</b>	<b>240</b>	
	<b>RATNAGIRI PH - I</b>	<b>PHASE-I</b>	<b>740</b>	<b>PHASE-I</b>	<b>740</b>	
	<b>RATNAGIRI PH -II</b>	<b>PHASE-II</b>	<b>740</b>	<b>PHASE-II</b>	<b>740</b>	
	<b>RATNAGIRI PH- III</b>	<b>PHASE-III</b>	<b>740</b>	<b>PHASE-III</b>	<b>740</b>	
<b>TOTAL GAS</b>			<b>3312</b>		<b>3252</b>	
<b>WIND+RES</b>			<b>79.48</b>		<b>79.48</b>	
<b>TOTAL WIND+RES</b>			<b>79.48</b>		<b>79.48</b>	
<b>TOTAL</b>	<b>HYDRO</b>		<b>3578.66</b>		<b>3574.66</b>	
<b>MAHARASHTRA</b>	<b>THERMAL</b>		<b>8700</b>		<b>8700</b>	
	<b>GAS</b>		<b>3312</b>		<b>3252</b>	
	<b>WIND+RES</b>		<b>79.48</b>		<b>79.48</b>	
<b>GRAND TOTAL (MAHARASHTRA)</b>			<b>15670.14</b>		<b>15606.14</b>	
<b>GOA</b>						
<b>TYPE</b>	<b>STATION</b>	<b>INSTALLED CAPACITY</b>		<b>EFFECTIVE CAPACITY</b>		
		<b>UNITS</b>	<b>TOTAL (MW)</b>	<b>UNITS</b>	<b>TOTAL (MW)</b>	
<b>GAS</b>	<b>RELIANCE, SALGAONKAR</b>	<b>1x39.82+1x8.2</b>	<b>48</b>	<b>1x39.82+1x8.2</b>	<b>48</b>	
<b>GRAND TOTAL (GOA)</b>			<b>48</b>		<b>48</b>	

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

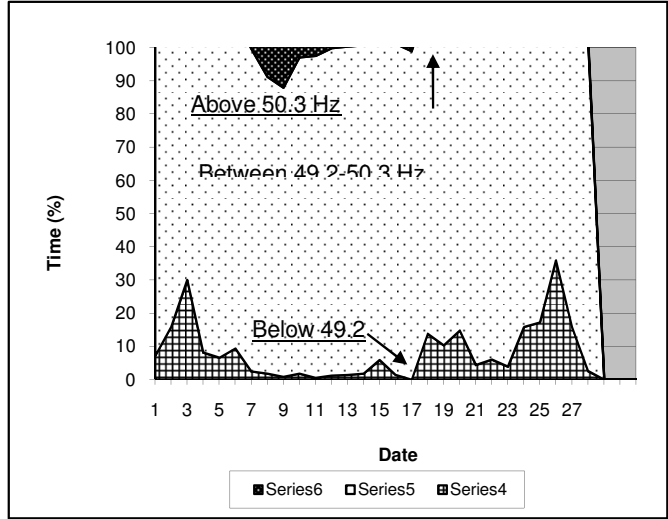
Voltage Profile of major Sub-Stations for the month of February -2010

क्षेत्र Region	सब स्टेशनका नाम Sub station name	अंकितमुल्य विद्युतदाब Nominal Voltage(KV)	विद्युतदाब स्थिती (प्रतिशत समय) Percentage of time when voltage was			अधिकतम विद्युतदाब Max. Voltage(KV)	न्युनतम विद्युतदाब Min. Voltage(KV)
			Below 0.97p.u.	0.97-1.03p.u	Above 1.03 p.u.		
			Western	धुले Dhule	400.00		
	असोज Asoj	400.00	0.00	0.00	100.00	427.00	406.00
	कराड Karad	400.00	57.78	41.70	0.52	423.00	389.00
	कासोर Kasor	400.00	5.88	87.59	6.52	429.00	405.00
	इन्दौर Indore	400.00	64.85	34.92	0.23	423.00	387.00
	इटारसी Itarsi	400.00	35.65	58.33	6.02	428.00	393.00
	जेतपुर Jetpur	400.00	0.06	75.82	24.12	420.00	386.00
	भिलाई Bhilai	400.00	0.00	0.94	99.06	415.00	398.00
	बिना Bina	400.00	77.32	21.57	1.11	425.00	384.00
	ग्वालियर Gwalior	400.00	81.51	14.20	4.28	432.00	354.00

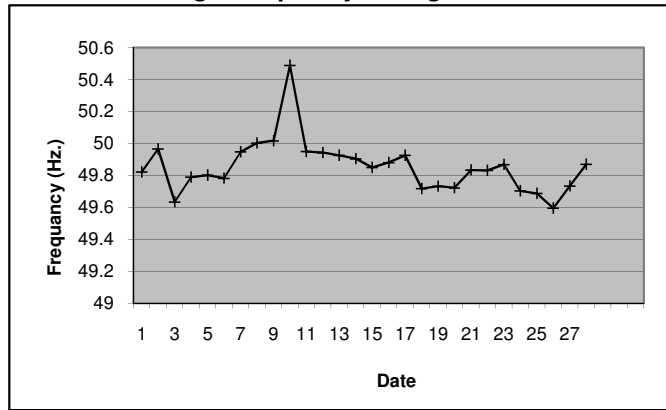


जनवरी 2010 माह के दौरान आवृत्ति रेजीम  
**Frequency Regime during the month of Feb 2010**

Date	Time (%)			Average Frequency (Hz)
	Below 49.2	Between 49.2-50.3	Above 50.3	
1	7.08	99.24	0.76	49.82
2	15.88	99.31	0.00	49.97
3	30.02	96.46	0.14	49.63
4	8.11	99.86	0.14	49.79
5	6.59	99.23	0.35	49.80
6	9.37	99.65	0.00	49.78
7	2.43	97.16	2.84	49.95
8	1.80	89.39	10.61	50.00
9	0.83	87.10	12.90	50.02
10	1.80	95.21	4.79	50.49
11	0.55	96.95	3.05	49.95
12	1.18	98.61	1.39	49.94
13	1.39	98.89	1.11	49.93
14	1.80	98.89	1.11	49.90
15	5.89	99.03	0.97	49.85
16	1.39	99.79	0.21	49.88
17	0.00	98.89	1.11	49.93
18	13.80	99.86	0.00	49.72
19	10.33	98.33	0.14	49.73
20	14.77	99.03	0.14	49.72
21	4.37	98.96	0.69	49.83
22	6.03	99.30	0.63	49.83
23	3.88	99.17	0.83	49.87
24	15.82	99.64	0.00	49.70
25	17.20	99.72	0.00	49.69
26	35.92	98.89	0.00	49.60
27	15.81	99.51	0.35	49.73
28	2.57	98.62	1.38	49.87

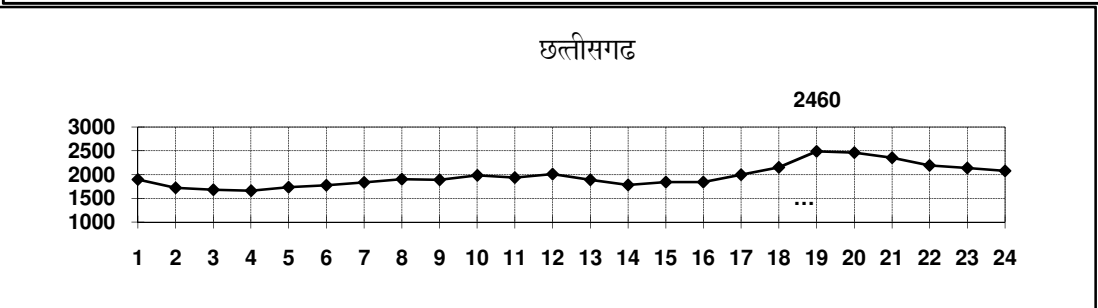
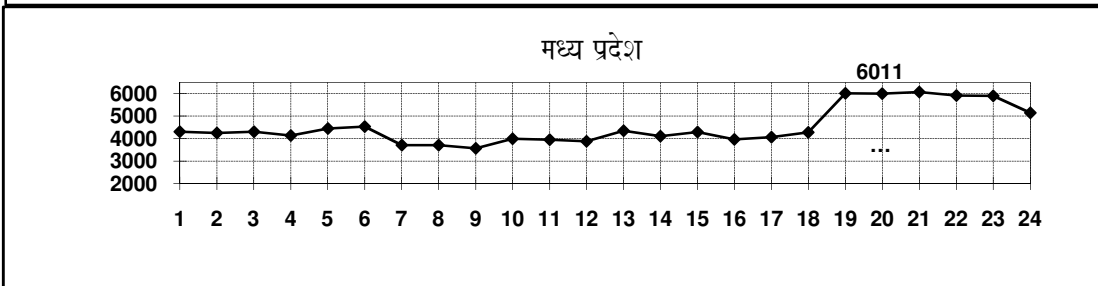
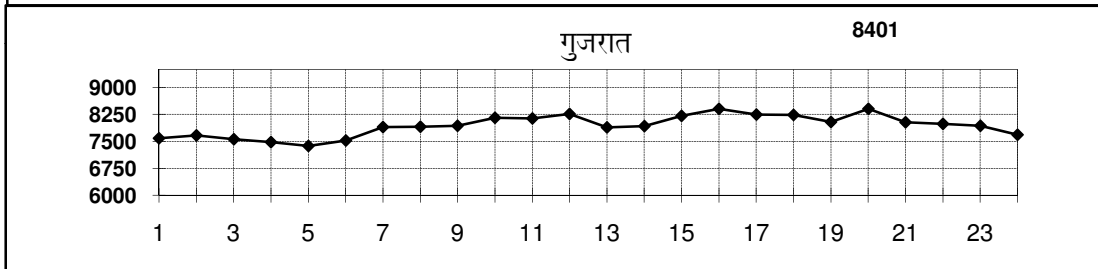
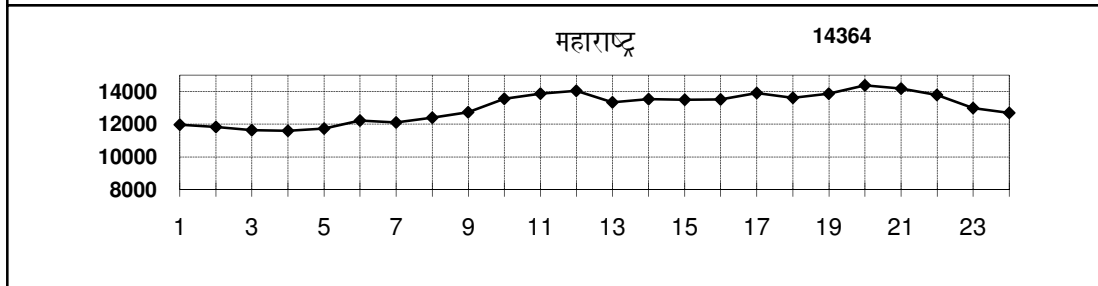
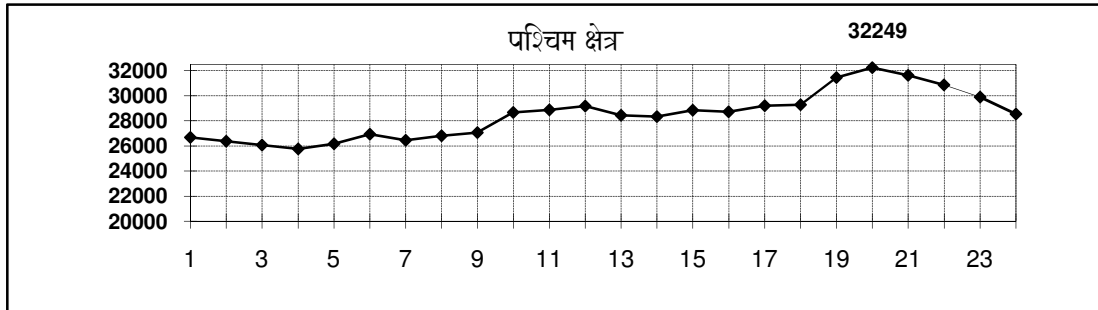


जनवरी 2010 माह के दौरान औसत आवृत्ति  
**Average Frequency during Feb 2010**



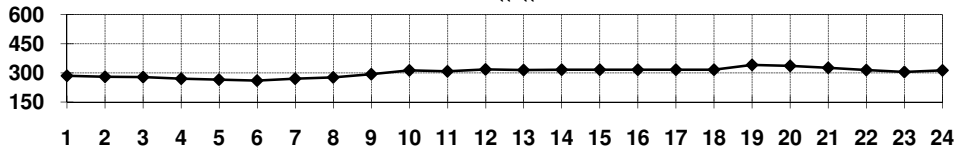
पश्चिम क्षेत्र चरम भार दिन के प्रतिघटा भार वक्र

HOURLY DEMAND CURVE ON REGIONAL PEAK DAY 24.02.10



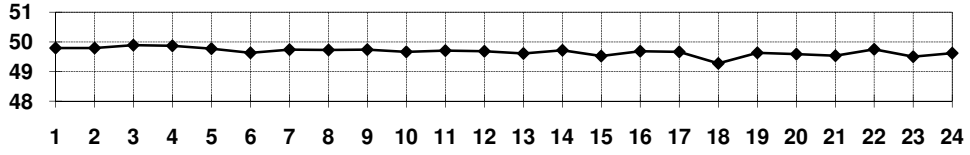
गोवा

336

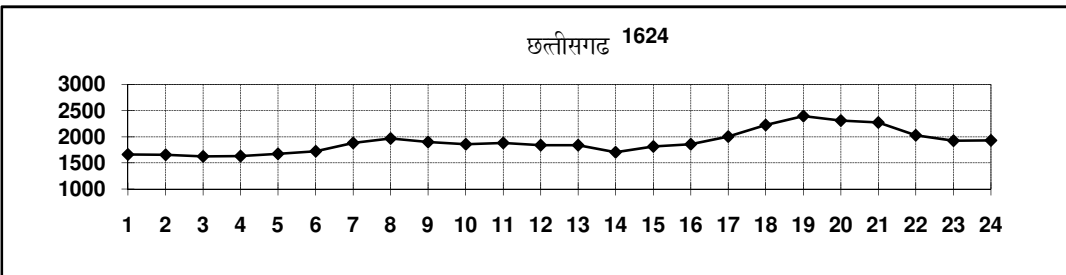
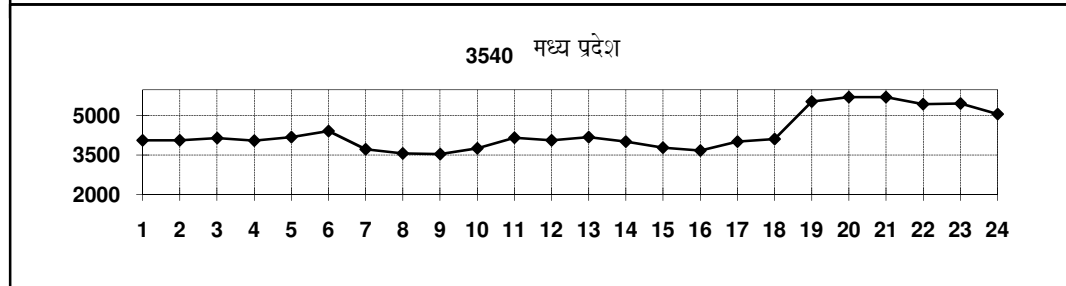
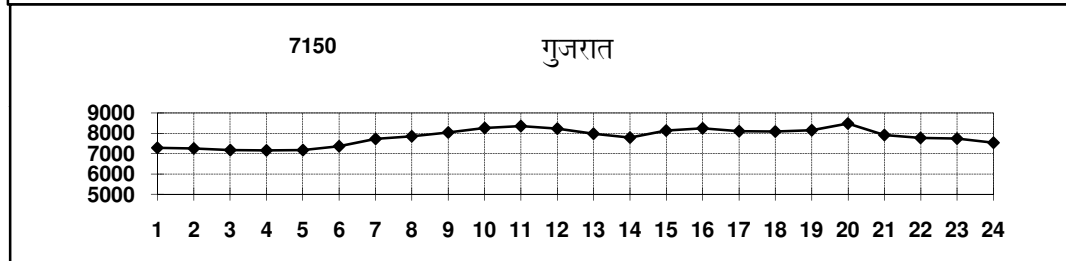
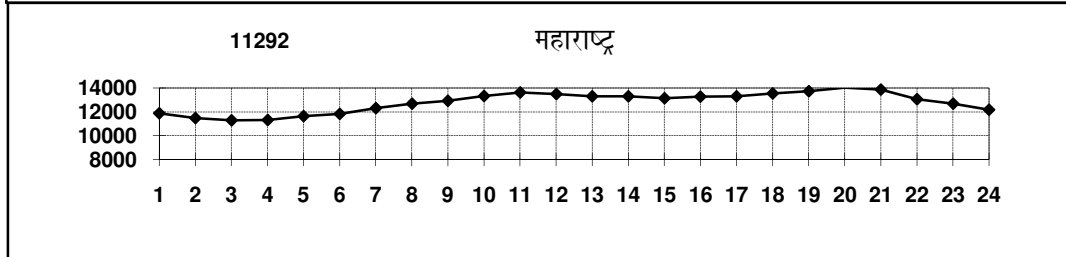
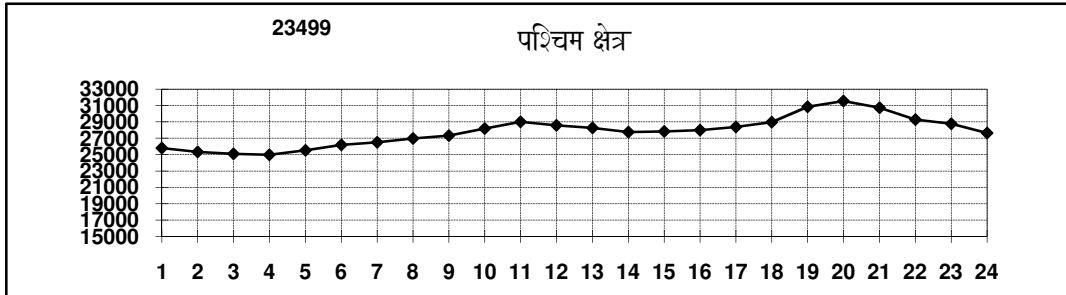


चरम मांग के दिन घंटेवार आवृत्ती

49.59

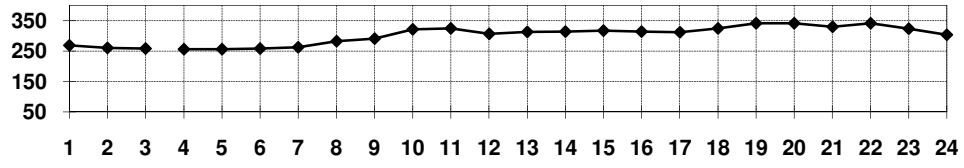


पश्चिम क्षेत्र न्यूनतम भार दिन के प्रतिघंटा भार वक्र  
 HOURLY DEMAND CURVE ON MINIMUM LOAD DAY 16.02.10



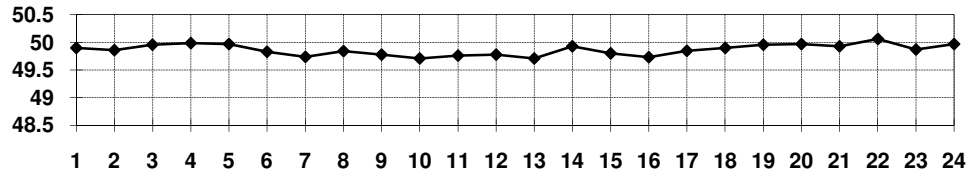
256

गोवा



49.99

न्यूनतम मांग के दिन घंटेवार आवृत्ति



माह फरवरी 2010 का क्षेत्रीय भार वक्र  
Monthly Load Duration curve for the month of Feb 2010

Maximum Demand = MW  
Minimum Demand = MW

