



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

**System Operation Report
Of Western Region
For the month of
APRIL 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 अप्रैल 2010 में पश्चिम क्षेत्र का निष्पादन डाटा

Performance of Western Regional Grid during April -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. <49.2Hz (MUs)	Underdrawal at Freq. >50.3Hz (MUs)
1	गुजरात Gujarat	1095.31	783.58	-311.73	0.511	0.033
2	मध्य प्रदेश Madhya Pradesh	1366.94	1315.88	-51.06	3.639	00
3	महाराष्ट्र Maharashtra	2215.29	2394.24	178.95	15.727	0.006
4	छत्तिसगढ Chhattisgarh	-217.46	-290.85	-73.39	5.056	0.025
5	गोवा Goa	192.93	189.74	-3.19	1.262	0
6	दमन और दीव D&D	179.83	147.72	-32.11	.082	0
7	दादर नगर हवेली DNH	341.89	331.01	-10.88	.862	0
8	पावरग्रिड एचवीडीसी PG(HVDC)	2.121	1.0185	-1.1025		
9	कुल TOTAL	5174.73	4871.32			

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

Inter-Regional Exchange of Power in Western Region during April -10

LINES	Import (Mus)
ER (NTPC) to GUVNL	53.367263
ER(NTPC) to MP TCL	27.989426
ER(NTPC) TO CSEB	11.354737
ER (NTPC) TO MSEDCL	56.035626
ER(NTPC) TO GOA	
ER(NTPC) TO DD	0.738058
ER(NTPC) TO DNH	1.135474
DVC TO MPPTCL (LONG TERM OPEN ACCESS)	38.5854
HIRAKUD TO CSEB	1.278557
TPCH WBSEB TO MSEB	20.4222
TISCO TO MSEB (TPTCL)	25.83624
TPCH WBSEB TO MSEB (TPTCL)	10.56588
TRIPURA TO RINFRA MSEB (NVVNL)	2.94887
WBSEB TO RINFRA MSEB (NVVNL)	4.58891
AP-NER TO TPC MSEB (TEXL)	0.09456
TATA HALDIA(WB) TO TPC MSEB(TPTCL)	0.22648
JK TO CSEB (NVVNL)	49.00369
BSES_RAJ TO MPSEB(LANCO)	1.5248
BSES_RAJ TO MPSEB(RETL)	0.76048
BSES_DTL TO MPSEB(LANCO)	7.82467
BSES_DTL TO MPSEB(RETL)	4.12348
HIMANCHAL TO TORRENT_GUVNL(IEXL)	0.36375
BSES_RAJ TO RINFRA MSEB(RETL)	11.399643
NTPC DADRI TO RINFRA MSEB(NVVNL)	0.168
PSEB TO RINFRA MSEB (RETL)	4.288673
AMBUJA CEMENT(PSEB) TO TPC MSEB (INSTINCT)	1.94616
HIMANCHAL TO TORRENT_GUVNL(IEXL)	0.47409
GOA(SR) TO GOA (WHEELING)	5.613345
BSES(DTL) TO NESCOM (PPDPL)	1.013175
GOA(SR) TO GOA (WHEELING)	1.045955
JSWEL TO RINFRA MSEB (JSW PTL)	7.5621
NET IMPORT FROM NR	81.877
NET IMPORT FROM SR	15.235
NET IMPORT FROM ER	255.167681
Lines	Export(Mus)
INDIAN ENERGY EXCHANGE (WR TO ER)	46.46556
POWER EXCHANGE OF INDIA (WR TO ER)	11.17534
GUVNL TO BESCOM (PTC LTD)	0.84105
BPIL CSEB TO KSEB (GMRETL)	2.80616
GPIL CSEB TO KSEB (GMRETL)	12.45602
HFAL CSEB TO KSEB (GMRETL)	2.20668
MSPPL CSEB TO KSEB (GMRETL)	0.91752
RREL CSEB TO KSEB (GMRETL)	2.29208
SNIL CSEB TO KSEB (GMRETL)	6.45354
APL TO TNEB (AEL)	9.67664
GUVNL TO TNEB (PTC LTD)	139.83975

INDORAMA MSEB TO TNEB (TPTCL)	1.81314
JPL TO TNEB (NVVNL)	17.07076
JPL TO TNEB (PTCL LTD)	4.96125
LAMKPL TO TNEB (PTC LTD)	26.83632
TORRENT GUVNL TO TNEB (NVVNL)	65.2896
VIL GUVNL TO TNEB (NVVNL)	0.1632
WELSPUN GUVNL TO TNEB (TPTCL)	4.26288
APL TO VAL ER (LANCO)	1.13881
MPSEB TO WBSEB (NVVNL)	8.1991
SCPL CSEB TO BESCOM (NVVNL)	2.50478
JPAL CSEB TO MEGHALAYA (RPGPTCL)	1.23739
AFAL CSEB TO TNEB (NVVNL)	2.13612
BPIL CSEB TO TNEB (NVVNL)	3.99384
GUVNL TO TNEB (TPTCL)	21.848
GPIL CSEB TO TNEB (NVVNL)	11.4156
HFAL CSEB TO TNEB (NVVNL)	2.10252
HPSL CSEB TO TNEB (NVVNL)	1.80348
TSL CSEB TO TNEB (NVVNL)	1.84368
JPAL CSEB TO TNEB (NVVNL)	7.12236
MSPSPL CSEB TO TNEB (NVVNL)	1.66524
REALISPAT CSEB TO TNEB (NVVNL)	1.9302
RREL CSEN TO TNEB (NVVNL)	4.49352
SNIL CSEB TO TNEB (NVVNL)	4.8258
TORRENT GUVNL TO TNEB (NVVNL)	4.5099
TORRENT CUVNL TO TNEB (PTC LTD)	30.30432
CGL CSEN TO TNEB (NVVNL)	3.66024
VIL CSEB TO TNEB (NVVNL)	0.73164
IEX (WR TO NR)	124.60232
BALCO CSEB TO BSES_RAJ (LANCO)	10.6647
INDORAMA MSEB TO BSES_RAJ (GMRETL)	1.42592
JPL TO BSES_RAJ (BSES RAJ)	91.8972
MPSEB TO BSES_RAJ (GMRETL)	1.93568
MIEL CSEB TO BSES RAJ (NVVNL)	14.3477
MIELMH CSEB TO BSES RAJ (NVNL)	6.14232
SEML CSEB TO BSES YM (DTL)	3.234
VGL CSEB TO BSES YM (DTL) (NVVNL)	12.28407
APL TO NDPL (DTL) (TPTCL)	0.9518
AFAL CSEB TO NDPL(DTL) (TPTCL)	1.07254
BPIL CSEB TO NDPL (DTL) (SCL)	4.04208
HFAL CSEB TO NDPL DTL (TPTCL)	3.34668
HPSL CSEB TO TNEB (TPTCL)	0.90587
JPLTO NDPL(TPTCL)	30.6456
JPAL CSEB TO NDPL(DTL)	3.5469
JEGL CSEB TO NDPL (DTL)(GMRETL)	2.50762
REALISPAT CSEB TO NDPL(DTL) (TPTCL)	3.68619
RREL CSEB TO NDPL(DTL)(TPTCL)	3.49296
SBPIL CSEB TO NDPL (DTL)(SCL)	0.16704
SCPL CSEB TO NDPL(DTL)(TPTCL)	0.5016
VIL CSEB TO NDPL (DTL) (SCL)	2.49631
MPSEB TO RPPC (MPPL)	5.67104
APL TO VAL ER (LANCO)	0.51978
TPC MSEB TO VAL ER (LANCO)	1.3718
KAWAS -RLNG TO RPPC (NVVNL)	0.1504

AIDCPL CSEB TO APPCC (LANCO)	3.60354
ACPCL CSEB TO APPCC (LANCO)	8.189
BALCO CSEB TO APPCC (LANCO)	61.47507
CSPL CSEB TO APPCC (LANCO)	12.28673
GFL GUVNL TO APPCC (TPTCL)	10.91472
MCPL MPSEB TO APPCC (NVVNL)	7.33944
MSPSPL CSEB TO APPCC (LANCO)	1.84433
MECBL CSEB TO APPCC (LANCO)	4.22085
SKSIP CSEB TO APPCC (TPTCL)	4.55686
SCPL CSEB TO APPCC (LANCO)	2.70465
SCPL CSEB TO APPCC (LANCO)	1.25552
SSPL CSEB TO APPCC (LANCO)	5.54553
TPC MSEB TO APPCC (NVVNL)	3.4172
TORRENT GUVNL TO APPCC (NVVNL)	108.138
WELSPUN GUVNL TO APPCC (TPTCL)	9.7956
CSEB TO BESCO (PTC LTD)	34.0356
GUVNL TO BESOM (PTC LTD)	22.14628
JPL TO BESOM (PTC LTD)	33.00048
ACC(KYMORE) MPSEB TO INDIA CEMENT(TPTCL)	3.2484
VARDHMAN MPSEB TO INDIA CEMENT(TPTCL)	1.362
VFL MPSEB TO INDIA CEMENT (TPTCL)	2.2032
AFAL CSEB TO KSEB (GMRETL)	1.99152
BALCO CSEB TO KSEB (GMRETL)	23.08557
HPSL CSEB TO KSEB (GMREL)	1.66216
JPAL CSEB TO KSEB (GMRETL)	6.58608
JBIL CSEB TO KSEB (GMRETL)	3.64534
APL TO TNEB (AEL)	24.10855
GUVNL TO TNEB (PTC LTD)	13.86316
INDORAMA MSEB TO TNEB (TPTCL)	5.8134
JPL TO TNEB (NVVNL)	41.45756
JPL TO TNEB (PTC LTD)	12.04875
TPC MSEB TO TNEB (TPTCL)	9.9318
VIL GUVNL TO TNEB (NVVNL)	5.34123
WELSPUN GUVNL TO TNEB (TPTCL)	0.30432
JPL TO BESOM (PTC LTD)	93.1656
BALCO CSEB TO KSEB (LANCO)	25.96992
IIPL MSEB TO KSEB (LANCO)	9.97323
SSPL CSEB TO KSEB (LANCO)	5.03515
VGL CSEB TO KSEB (LANCO)	5.37832
APL TO TNEB (AEL)	5.39765
JPL TO TNEB(NVVNL)	191.1432
JPL TO TNEB(PTC LTD)	29.1542
TPC MSEB TO TNEB (TPTCL)	0.15024
TORRENT GUVNL TO TNEB (NVVNL)	12.56533
LKKPL TO TORRENT GUVNL (IEXL)	0.26529
NET EXPORT TO SR	869.32
NET EXPORT TO NR	331.61012
NET EXPORT TO ER	472.99403

3 आवृत्ति रूपरेखा

a. Frequency Profile

MAXIMUM FREQUENCY(Inst.): आधिकतम आवृत्ती एकेकृत :	50.505
Minimum frequency(Inst) न्यूनतम आवृत्ती एकेकृत :	48.56
Average frequency औसत आवृत्ती	49.269

3 b. आवृत्ती वितरण प्रतिशत में Frequency distribution in %

HZ	<48.8	<48.8 - 49.2	49.2 -49.5	49.5-50.0	50.0-51.0	>51.0
%	3.68	35.95	40.48	19.04	0.85	0.00

Power Supply Position and Peak Demand / Met In Western Region

4 a. विद्युत पूर्ति की स्थिति Power Supply Position

	APR-10			APR -10 TO APR-10		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
Gujarat	6898.95	6253.93	9.35	6898.95	6253.93	9.35
CSEB	1847.88	1840.97	0.37	1847.88	1840.97	0.37
MPSEB	3835.40	3035.66	20.85	3835.40	3035.66	20.85
Maharashtra	12319.24	9867.88	19.90	12319.24	9867.88	19.90
Goa	231.03	223.34	3.33	231.03	223.34	3.33
D&D	158.58	147.41	7.04	158.58	147.41	7.04
DNH	323.07	323.07	0.00	323.07	323.07	0.00
Western Region	25614.15	21756.10	15.06	25614.15	21756.10	15.06

PROGRESS OF TRANSMISSION LINE CONSTRUCTION IN WR

	Name of transmission line	<u>Length in ckt km.</u>	Total Locations(N os)	Commissioning Schedule	Remarks
A	Gujarat				
	I)400kV Lines				
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
	II)220kV Lines				
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	Virangam - Salejada D/C	118	186	March'10	work under progress.
11	Lilo at Bhat of Virangam - 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)	Madhya Pradesh				
	I) 400kV Lines				
			NIL		
	II) 220kV Lines				
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	LILO 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	LILO of 2nd ckt of 220 kv Pithampur-Ratlam line for 220kv Badnagar	20.25	35	2008-09	Line charged on 10.12.09
14	LILO 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

C)	Chhatisgarh				
	I) 400kV Lines				
1	LILO 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
	II) 220kV Lines				
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

D)	Maharashtra				
	I) 400kV Lines				
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
	II) 220kV Lines				
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-Khaperkheda s/s	3.5	19	Dec'09	Work in progress
Sl.No	POWERGRID				
	765 kV & 400kv				
A)	Sipat II supplementary Trans system				
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	Comm operation from 01.04.09
3	400 KV D/C Wardha - Akola	324	437	Apr'09	Comm operation from 01.04.09

B)	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)	270	734	July'11	
2	400 KV Wardha(PG)-Parli(PG) D/C(quad.)	674	895	July'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
For Regional strengthening in southern Maharashtra to be implemented through IPTC Route by WR transmission (Mah)					
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 LILOing 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 LILOing of this line
For Regional strengthening in Gujarat to be implemented through IPTC Route by WR transmission (Guj) Pvt. Ltd.					
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	
For Regional strengthening in Northern Madhya Pradesh					
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	Oct'10	
18	400 KV Damoh(PG)-Bhopal(MPSEB) D/C	430	576	Mar'10	Erection completed, testing under progress
Transmission system associated with Gandhar-II(GBPP)					
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		*	

WR strengthening system-V					
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
WR strengthening system-VI					
25	400 KV Dehgam Pirana D/C	92	139	June'10	
WR strengthening system-IX					
26	LILO of 400 KV Bina-Nagda Line at Sujalpur	60		Jan'11	Award placed in Nov'09
WR strengthening system-X					
27	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					
28	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					
29	400 KV D/C Korba STPS-Raipur line	430	638	June'11	Effort is being made to complete the line earlier
Transmission system associated with Mundra UMPP					
30	400 KV D/C Mundra-Limbdi	626	838	Dec'11	Wild life sanctury portion clearance awaited
31	400 KV D/C Mundra-Bachchauranchodpur	764	1028	Feb'11	Wild life sanctury portion clearance awaited
32	400 KV D/C Mundra-Bachchauranchodpur	666	900	Mar'12	Wild life sanctury 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
Transmission system associated with Sasan UMPP					
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	
INTER-REGIONAL LINES					

East-West transmission corridor strengthening scheme					
1	400 KV Ranchi- Rourkela D/C	288	401	June'10	ROW Problem
2	400 KV Raigarh-Rourkela D/C	440	586	Oct'10	
3	400 KV Raigarh-Raipur	440	584	July'10	
Transmission system associated with Barh Generation project					
1	765 kv Seoni-Bina S/C	293	788	Mar'10	COMPLETED
Transmission system associated with North West Transmission corridor strengthening scheme					
1	765 KV Agra-Gwalior 2nd S/C line	128	336	Mar'09	Comml 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	<u>GUJARAT</u>			
1	Surat lignite expansion- GIPCL	3	125	12.04.10
		4	125	23.04.10
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	Oct-10
		4	330	Nov-10
6	Mundra ultra mega TPP (TATA)	1	800	Sep-11
		2	800	Sep-12
7	Hazira CCPP Expansion GSEG	GT+ST	350	Sep-10
	OTHER PROJECTS			
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	<u>MADHYA PRADESH</u>			
1	Amarkantak TPS	2	500	Apr-11
2	Satpura TPS ext.	10	250	Nov-10
		11	250	Mar-11
	OTHER PROJECTS			
1	Maheshwar HEP		400	2010-2011
2	Malwa TPP	1	500	Dec-10
C	<u>CHATTISGARH</u>			
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
	OTHER PROJECTS			
1	Bhaiyathan TPP Phase 1	1	500	Dec-12
		2	500	Aug-13
2	IFFCO	1	660	Aug-12
		2	660	Dec-12

D	<u>MAHARASHTRA</u>			
1	New Parli TPS Extn.	2	250	Commissioned on 10.02.10
2	Paras TPS Extn	2	250	Commissioned on 27.03.10
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	Comisoned 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
	OTHER PROJECTS			
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	<u>CENTRAL SECTOR</u>			
1	Sipat TPP	1	660	Nov'10
		2	660	May'11
		3	660	Nov'11
2	Korba STPS - III	7	500	Aug-10
3	Mauda TPP	1	500	2011-12
		2	500	2012-13

NEW GENERATING PLANTS COMMISSIONED IN 2009-10 IN WR

	GUJARAT			
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 06/09/09
2	Mundra(Adani)	1	330	Commissioned on 04/08/09
		2	330	Commissioned on 17/03/10
3	Utran GPP	GT+ST	374(228+146)	Commissioned on 10/10/09
4	Kutch lignite	4	75	Commissioned on 01/10/09

CHATTISGARH				
5	Pathadi TPP(LANCO)	1	300	Commissioned on 04/06/09
6	LANCO Amarkantak PL	2	300	Commissioned on 25/03/10
7	Bhilai TPP	2	250	Commissioned on 12/07/09
MAHARASHTRA				
8	New Parli TPS ext(Parli 7)	2	250	Commissioned on 10/02/10
9	Paras TPS Ext (Paras 4)	2	250	Commissioned on 27/03/10

दिनांक 30 | 04 | 2010 को राज्यानुसार संस्थापित क्षमता

INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS ON 30.04.2010

(All fig. in MW)

State	Ownership	Hydro	Coal	Gas	Nuclear	Total	Diesel	RES	Total
Gujarat	State	772.00	4440.00	892.72	0.00	6104.72	17.28	29.90	6151.90
	Private	0.00	1310.00	2577.50	0.00	3887.50	0.20	1626.01	5513.71
	Central(firm allo)	0.00	1462.00	424.00	559.00	2445.00	0.00	0.00	2445.00
	Total	772.00	7212.00	3894.22	559.00	12437.22	17.48	1655.91	14110.61
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	216.10	216.10
	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	287.86	8424.35
Chhattisgarh	State	120.00	2280.00	0.00	0.00	2400.00	0.00	19.05	2419.05
	Private	0.00	1600.00	0.00	0.00	1600.00	0.00	199.90	1799.90
	Central(firm allo)	0.00	493.00	0.00	48.00	541.00	0.00	0.00	541.00
	Total	120.00	4373.00	0.00	48.00	4541.00	0.00	218.95	4759.95
Maharashtra	State	2884.83	7300.00	912.00	0.00	11096.83	0.00	233.72	11330.55
	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	11153.66	3716.00	690.00	18891.49	0.00	2437.97	21329.46
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	16952.50	1804.72	0.00	24237.72	17.28	354.48	24609.48
	Private	447.00	4810.00	2805.50	0.00	8062.50	0.20	4276.26	12338.96
	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	28387.80	8143.81	1840.00	45819.11	17.48	4630.74	50467.33

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

* (i) Includes allocation to WR beneficiaries from Kahalgaon STPP stage II (1000MW) of NTPC station in ER commissioned (i.e. achieved full load)

(ii) Firm allocation of 100 MW to GOA from Ramagundum STPS of NTPC in SR which was earlier included in Dec. 09 has been

(iii) RES capacity revised to 4630.74 MW from 4596.54 MW (Mar 2010)

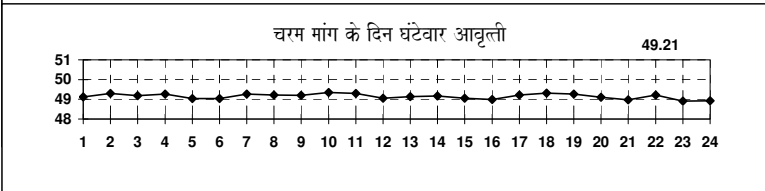
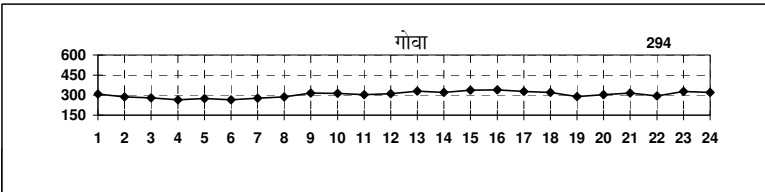
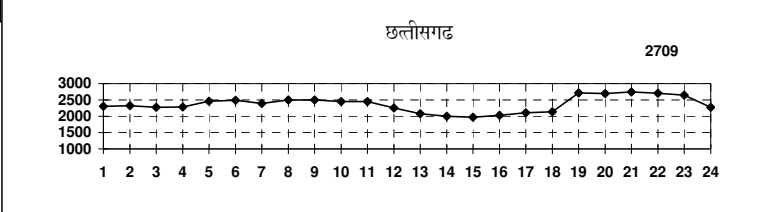
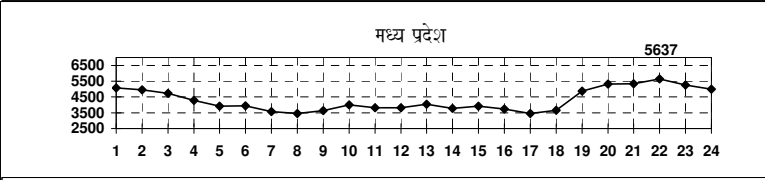
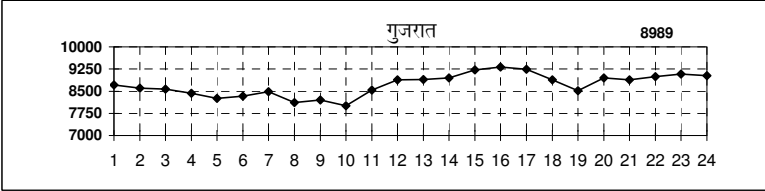
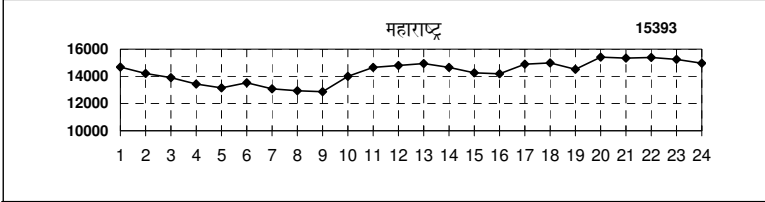
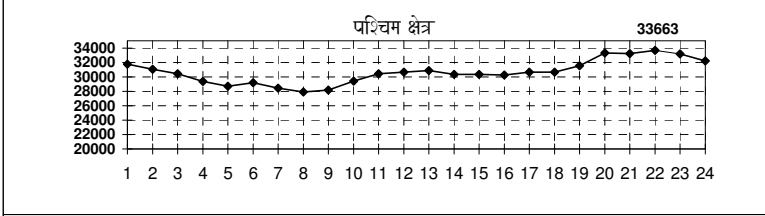
* RES capacity revised to 4596.54 MW from 4563.18 MW

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

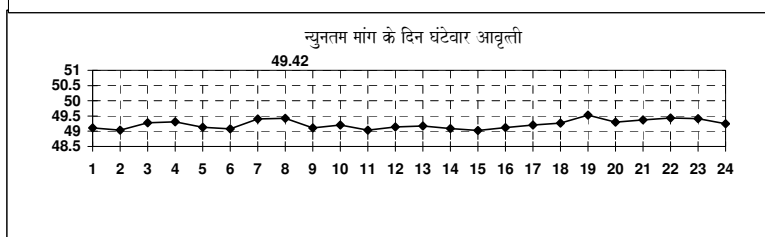
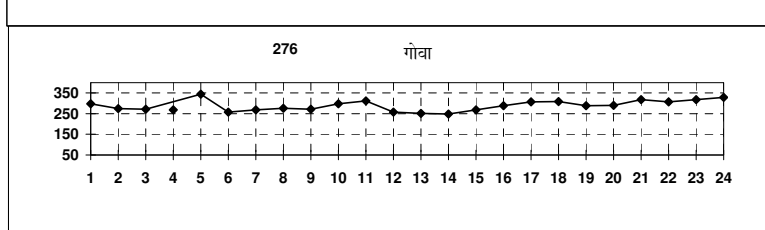
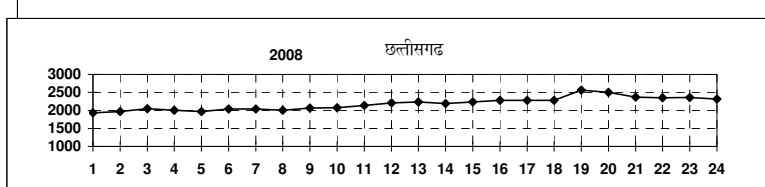
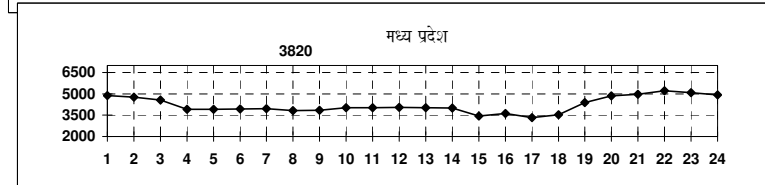
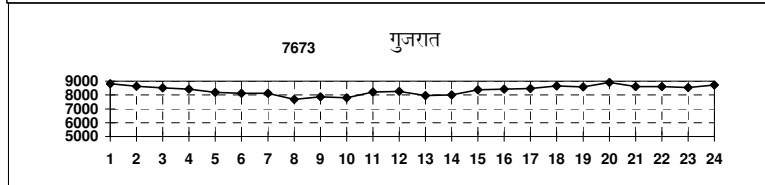
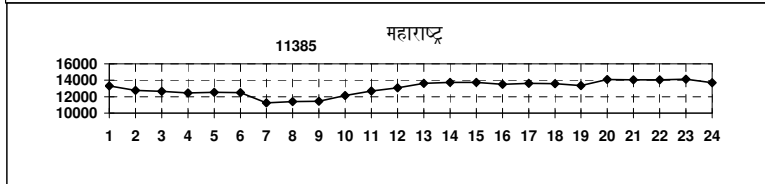
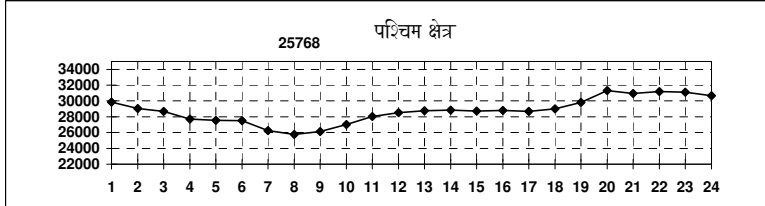
Voltage Profile of major Sub-Stations for the month of APRIL-2010

क्षेत्र Region	सब स्टेशनका नाम	अधिकतम विद्युतदाब Nominal	विद्युतदाब स्थिति (प्रतिशत समय)			अधिकतम विद्युतदाब Max.	न्यूनतम विद्युतदाब Min.	संक्षिप्त स्पष्टीकरण Brief Explanation
	Sub station name	Voltage(KV)	Percentage of time when voltage was			Voltage(KV)	Voltage(KV)	
			Below 0.97p.u.	0.97- 1.03p.u	Above 1.03 p.u.			
Western	धुले Dhule	400.00	0.00	2.80	97.20	434.00	391.00	
	असोज Asoj	400.00	0.00	0.00	100.00	423.00	398.00	
	कराड Karad	400.00	0.09	78.15	21.76	426.00	381.00	
	कासोर Kasor	400.00	0.00	34.67	65.33	424.00	403.00	
	इन्दौर Indore	400.00	0.00	65.95	34.05	426.00	397.00	
	इटारसी Itarsi	400.00	0.00	8.25	91.75	430.00	403.00	
	जेटपुर Jetpur	400.00	0.21	90.23	9.56	418.00	384.00	
	भिलाई Bhilai	400.00	0.00	99.99	0.01	419.00	392.00	
	बिना Bina	400.00	0.00	45.82	54.19	430.00	388.00	
	ग्वालियर Gwalior	400.00	0.04	45.05	54.91	429.00	383.00	

पश्चिम क्षेत्र चरम भार दिन के प्रतिघंटा भार वक्र
HOURLY DEMAND CURVES ON REGIONAL PEAK DAY 14.04.10



पश्चिम क्षेत्र न्यूनतम भार दिन के प्रतिघंटा भार वक्र
HOURLY DEMAND CURVES ON MINIMUM LOAD DAY 30.04.10

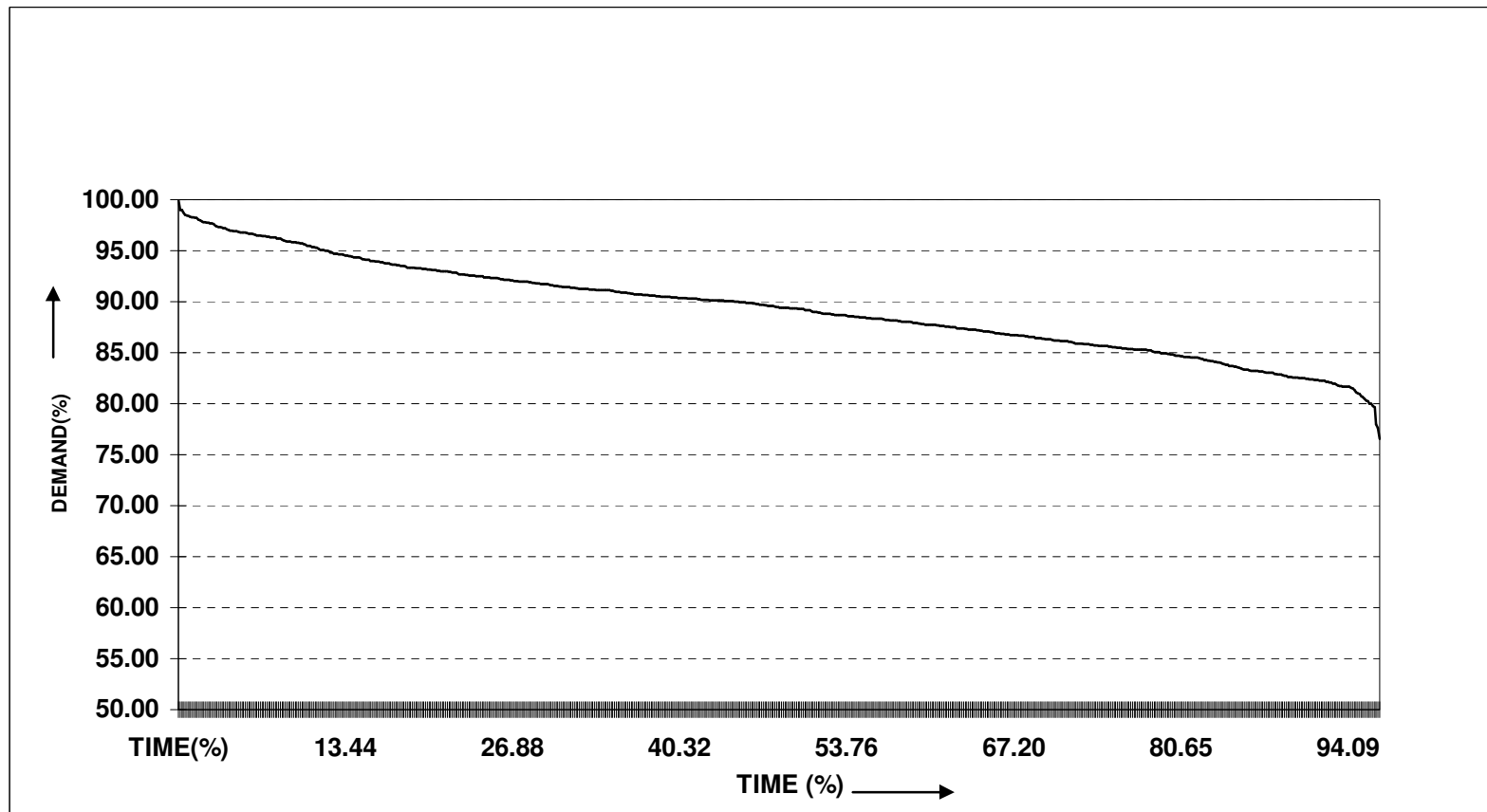


माह अप्रैल 2010 का क्षेत्रीय भार वक्र

Monthly Load Duration curve for the month of April 2010

Maximum Demand = 33663 MW

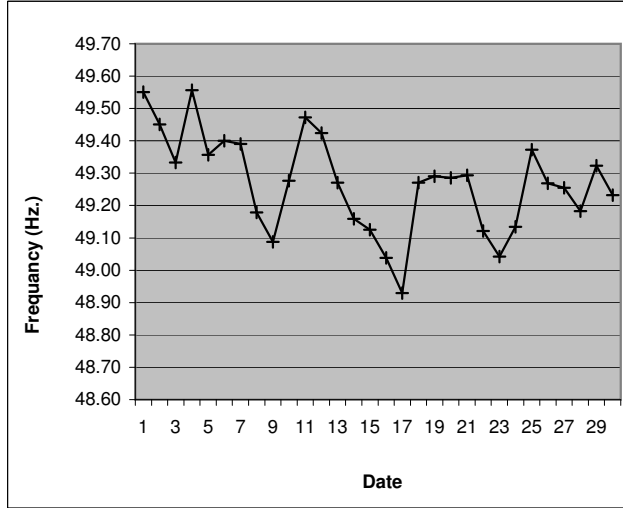
Minimum Demand = 25768 MW



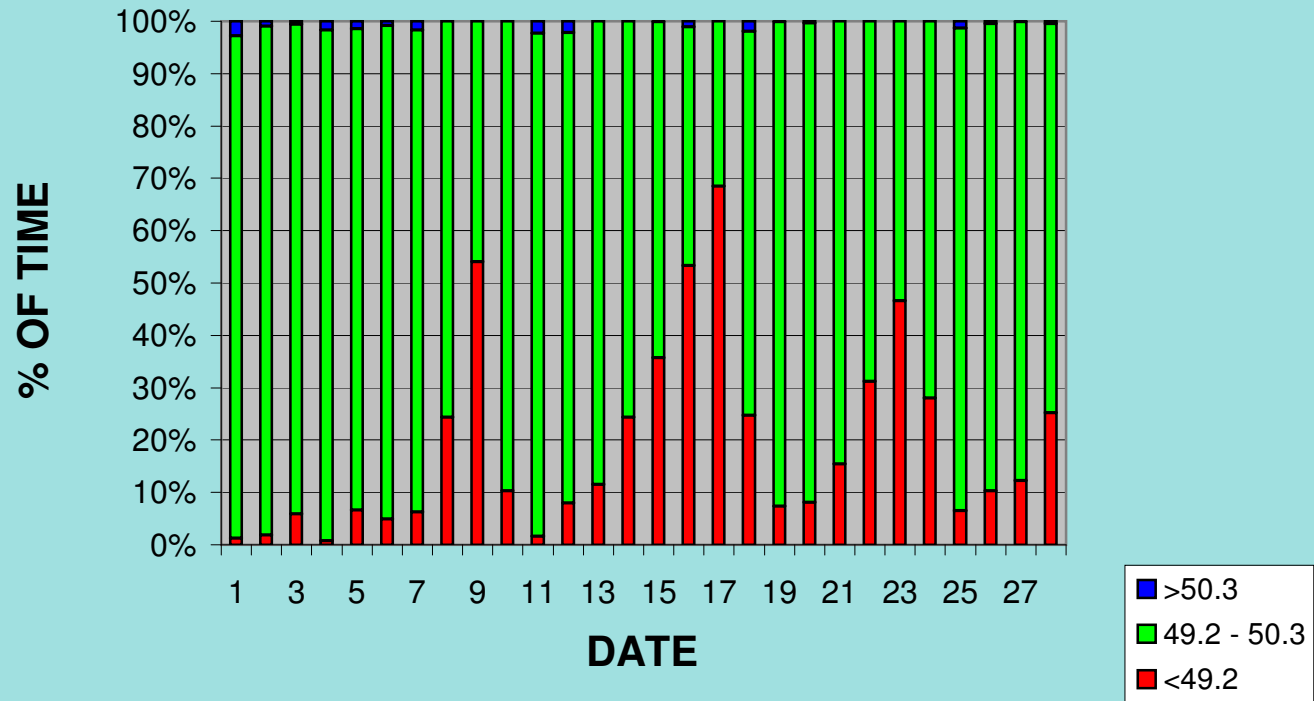
अप्रैल 2010 माह के दौरान आवृत्ति रेजीम

Frequency Regime during the month of April 2010

Date	Time (%)			Average Frequency (Hz)
	Below 49.2	Between 49.2-50.3	Above 50.3	
1	4.63	95.37	0.00	49.55
2	5.49	94.51	0.00	49.45
3	15.19	84.81	0.00	49.33
4	2.57	96.60	0.83	49.56
5	16.65	83.35	0.00	49.36
6	20.15	79.85	0.00	49.40
7	22.23	77.77	0.00	49.39
8	51.73	48.27	0.00	49.18
9	80.76	19.24	0.00	49.09
10	37.86	62.14	0.00	49.28
11	13.73	86.27	0.00	49.47
12	20.87	78.71	0.42	49.42
13	33.84	66.16	0.00	49.27
14	56.79	43.21	0.00	49.16
15	62.41	37.59	0.00	49.13
16	81.00	17.34	1.66	49.04
17	88.07	11.93	0.00	48.93
18	35.71	64.29	0.00	49.27
19	30.79	69.21	0.00	49.29
20	33.56	66.44	0.00	49.29
21	50.47	49.53	0.00	49.29
22	62.28	37.72	0.00	49.12
23	73.09	26.91	0.00	49.04
24	63.18	36.82	0.00	49.13
25	21.78	77.40	0.82	49.37
26	36.82	63.18	0.00	49.27
27	38.14	61.72	0.14	49.26
28	53.95	46.05	0.00	49.18
29	31.69	68.31	0.00	49.32
30	43.55	56.45	0.00	49.23



Frequency Profile - APR'10



% of time Freq remained less than 49.2 in APR'10 -Max 68.51 as compared to 35.46 max in MAR'10 -

