



पश्चिम क्षेत्रीय भार प्रेषण केंद्र कि
दिसम्बर 2009 माह की प्रणाली प्रचालन
रिपोर्ट

**System Operation Report
Of Western Region
For the month of
Dec 2009**

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 दिसम्बर 09 में पश्चिम क्षेत्र का निष्पादन डाटा

Performance of Western Regional Grid during December -2009

1.0 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	1216.53	927.13	-289.4	0.151	0
2	मध्य प्रदेश Madhya Pradesh	1414.24	1291.78	-122.46	0.091	0
3	महाराष्ट्र Maharashtra	2213.62	2372.58	158.96	0.089	0
4	छत्तिसगढ Chhattisgarh	-226.11	-454.13	-228.02	0.088	0
5	गोवा Goa	216.15	212.84	-3.31	0.105	0
6	दमन और दीव D&D	167.00	138.23	-28.77	0.002	0
7	दादर नगर हवेली DNH	318.53	292.34	-26.19	0.009	0
8	पावरग्रिड एचवीडीसी PG(HVDC)	2.123	0.783	-1.34		
9	कुल TOTAL	5322.083	4781.553			

माह दिसम्बर 09 में अंतर क्षेत्र से पश्चिम क्षेत्र को विद्युत विनिमय

Inter-Regional Exchange of Power in Western Region during Dec - 2009

LINES	Import (Mus)
ER(NTPC) to GUVNL	49.59
ER(NTPC) to MPPTCL	26.134
ER(NTPC) to CSEB	10.602
ER(NTPC) to MSEDCL	52.322
ER(NTPC) to GOA	nil
ER(NTPC) to DD- AC link	0.689
ER(NTPC) to DNH- AC link	1.06
DVC TO MPPTCL (LTOA)	27.252
SCF MSEB TO MPSEB (RETL)	1.927
TATA HALDIA (WB) TO MSEB (TPTCL)	0.453
WBSEB TO MSEB (NVVNL)	17.514
TRIPURA TO RINFRA MSEB (NVVNL)	6.601
TATA HALDIA (WB) TO TPC MSEB (TPTCL)	5.359
TATA HALDIA (WB) TO TPCL (TPTCL)	0.374
WBSEB TO MSEB (IEXL)	31.200
BSES YM (DTL) TO MPSEB (GMRETL)	9.446
PSEB TO MPSEB (LANCO)	97.73
SRSL TO MPSEB (RETL)	1.455
SRSL (SR)TO MPSEB (RETL)	2.483
NBFAL (AP) TO MPSEB (RETL)	20.277
BSES YM (DTL) TO MPSEB (LANCO)	17.096
BSES (DTL) TO MPSEB (GMRETL)	8.548
BSES (DTL) TO MPSEB (LANCO)	15.302
NBVL TO MSEB (TPTCL)	0.392
AP-NER TO RINFRA MSEB (AP-NER)	0.165
NDPL (DTL) TO MPSEB (PTC)	19.809
HARIYANA TO MPSEB (MPPL MPSEB)	52.991
HIRAKUD TO CSEB	1.32
RIHAND (HYDRO) TO MPPTCL (LONG TERM OPEN ACCESS)	3.885
MATATILA (HYDRO) TO MPPTCL (LONG TERM OPEN ACCESS)	5.726
NBFAL (AP) TO MSEB (TPTCL)	6.299
NBFAL (AP) TO RINFRA MSEB (RETL)	27.783
NET IMPORT FROM NR	0.035
NET IMPORT FROM SR	22.628
NET IMPORT FROM ER	3.058

Lines	Export(Mus)
JPL TO UPPCL(JPL)	27.131
KAWAS RNLG TO RPPC(NVVNL)	0.187
SCPL CSEB TO UPPCL(KISPL)	2.543
CSEB TO CESC (NVVNL)	0.233
VIL CSEB TO UPPCL(KISPL)	3.206
VGL CSEB TO UPPCL (KISPL)	17.724
SSPL CSEB TO UPPCL (KISPL)	2.917
SPEL CSEB TO UPPCL (KISPL)	3.497
SNIL CSEB TO UPPCL (KISPL)	3.728
SEML CSEB TO UPPCL (KISPL)	7.82
RSIPIL CSEB TO UPPCL(KISPL)	1.544
RREL CSEB TO UPPCL (KISPL)	3.596
REALISPAT CSEB TO UPPCL (KISPL)	6.111
MIELMH CSEB TO UPPCL (KISPL)	18.248
MSPSPL CSEB TO UPPCL (KISPL)	3.286
BPIL CSEB TO UPPCL(KISPL)	2.033
GPIL CSEB TO UPPCL (KISPL)	8.528
HFAL CSEB TO UPPCL (KISPL)	4.911
HPSL CSEB TO UPPCL (KISPL)	4.911
MSPSPL CSEB TO UPPCL (KISPL)	3.127
MECBL CSEB TO UPPCL (KISPL)	4.722
RREL CSEB TO UPPCL (KISPL)	3.49
RSIPIL CSEB TO UPPCL (KISPL)	1.498
SNIL CSEB TO UPPCL (KISPL)	3.618
JPL TP CESC(NVVNL)	0.42
AFAL CSEB TO UPPCL (KISPL)	1.837
HPSL CSEB TO UPPCL (KISPL)	5.059
HFAL CSEB TO UPPCL (KISPL)	5.059
GPIL CSEB TO UPPCL (KISPL)	11.394
CSPL CSEB TO UPPCL (KISPL)	13.036
BPIL CSEB TO UPPCL (KISPL)	7.261
MIEL CSEB TO UPPCL (KISPL)	24.636
JBIL CSEB TO UPPCL (KISPL)	3.233
JPAL CSEB TO UPPCL (KISPL)	6.258
BALCO CSEB TO UPPCL (KISPL)	1.47
BALCO CSEB TO UPPCL (KISPL)	63.151
AIDCPL CSEB TO UPPCL (KISPL)	4.589
AFAL CSEB TO UPPCL (KISPL)	1.892
APL TO UPCL (AEL)	30.812
MCPL MPSEB TO RPPC (NVVNL)	5.175

JPL TO UPPCL (JPL)	7.753
JPAL CSEB TO UPPCL (KISPL)	6.075
JPL TO NDPL(DTL) (SIPSL)	0.047
JPL TO NDPL(DTL) (NDPL)	28.842
CSEB TO JK (NVVNL)	52.061
WELSPUN GUVNL TO JVVNL (TPTCL)	7.989
TORRENT GUVNL TO JVVNL (PTC)	7.914
SKSIP CSEB TO JVVNL (LANCO)	8.378
MIEL CSEB TO JVVNL (PTC)	13.432
JPL TO JVVNL (PTC)	55.53
GFL GUVNL TO JVVNL (TPTCL)	2.69
GFL GUVNL TO JVVNL (LANCO)	5.856
CSEB TO JVVNL (PTC)	60.93
BALCO CSEB TO JVVNL (LANCO)	16.756
INDORAMA MSEB TO BSES_RAJ (RETL)	10.688
TORRENT GUVNL TO JVVNL (NVVNL)	114.289
CSEB TO BSES_RAJ (PTC)	12.993
JPL TO APPCC (IEXL)	0.374
JPL TO BSES_RAJ (JPL)	67.561
ACC(KYMORE) MPSEB TO JVVNL (TPTCL)	2.671
NET EXPORT TO SR	84.696
NET EXPORT TO NR	981.201
NET EXPORT TO ER	387.741

आवृत्ति रूपरेखा

a. Frequency Profile

MAXIMUM FREQUENCY(Inst.): आधिकतम आवृत्ती एकिकृत	:	50.57 HZ
Minimum frequency(Inst) न्यूनतम आवृत्ती एकिकृत	:	48.83 HZ
Average frequency औसत आवृत्ती	:	49.81 HZ

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	0.52	53.19	44.27	2.02	0.00

Power Supply Position and Peak Demand / Met In Western Region

a. विद्युत पूर्ति की स्थिति Power Supply Position

	DEC -09			APR -09 TO DEC -09		
	Requirement (MUs)	Availability (MUs)	Shortage (%)	Requirement (MUs)	Availability (MUs)	Shortage (%)
Gujarat	6630	6009	9.37	54693	52589	3.85
CSEB	714	685	4.06	9435	9058	4.00
MPSEB	4454	3666	17.69	31678	26355	16.80
Maharashtra	11512	9072	21.20	95432	78667	17.57
Goa	284	278	2.11	2268	2220	2.12
D&D	162	160	1.23	1358	1327	2.28
DNH	346	343	0.87	2871	2812	2.06
Western Region	24102	20213	16.14	197701	173029	12.48

b. Peak Demand / Demand Met(MW)

	DEC -09			APR -09 to DEC -09		
	Requirement (MW)	Availability (MW)	Shortage (%)	Requirement (MW)	Availability (MW)	Shortage (%)
Gujarat	10032	9025	10.04	10855	9964	8.21
CSEB	2610	2559	1.95	2996	2880	3.87
MPSEB	7217	6198	14.12	7217	6198	14.12
Maharashtra	18499	14212	23.17	19151	14801	22.71
Goa	467	444	4.93	469	444	5.33
D&D	249	237	4.82	280	255	8.93
DNH	464	464	0.00	509	461	9.43
Western **Region	38755	32277	16.72	39208	32718	16.55

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

दिनांक 31 | 12 | 2009 को राज्यानुसार संस्थापित क्षमता

INSTALLED GENERATION CAPACITY OF THE STATES INCLUDING SHARES AS ON 31.12.2009

(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	1618.11	5175.81
	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	1642.41	13517.11
Madhya Pradesh	State	1703.67	2932.00	0.00	0.00	4635.67	0.00	71.76	4707.43
	Private	0.00	0.00	0.00	0.00	0.00	0.00	216.05	216.05
	Central(firm allo)	1520.00	1450.00	257.00	273.00	3500.00	0.00	0.00	3500.00
	Total	3223.67	4382.00	257.00	273.00	8135.67	0.00	287.81	8423.48
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	165.90	1465.90
	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	184.95	4425.95
Maharashtra	State	2884.83	6800.00	912.00	0.00	10596.83	0.00	213.73	10810.56
	Private	447.00	1900.00	180.00	0.00	2527.00	0.00	2204.23	4731.23
	Central(firm allo)	0.00	1953.66	2624.00	690.00	5267.66	0.00	0.00	5267.66
	Total	3331.83	10653.66	3716.00	690.00	18391.49	0.00	2417.96	20809.45
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	16202.00	1804.72	0.00	23487.22	17.28	328.89	23833.39
	Private	447.00	4180.00	2805.50	0.00	7432.50	0.20	4234.29	11666.99
	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	27007.30	8143.81	1840.00	44438.61	17.48	4563.18	49019.27

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

* Kahlgaon 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 132.65MW has been included in the installed capacity of WR.

दिनांक 31 | 12 | 09 को पश्चिमी क्षेत्र में इकाई अनुसार संस्थापित क्षमता
UNITWISE INSTALLED CAPACITY IN WESTERN REGION AS ON 31.12.09

(A) गुजरात (GUJARAT)

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Uprated
जलीय (HYDRO)				
1	Ukai (H)	4 x 75	300.00	300.00
2	Kadana	4 x 60	240.00	240.00
3	Sardar Sarovar	16% (5x50 + 6x200)	232.00	232.00
4	Ukai (LBCH)	2 x 2.5	5.00	5.00
5	Panam	1x2	2.00	2.00
Total Hydro			779.00	779.00
गैस(GAS)				
1	Dhuvaran	1 x 72	72.00	72.00
2	Dhuvaran CCPP	1x67.85+1x38.77 (ST)	146.62	146.62
3	Utran CGPP-1	1x45+3 x 33	144.00	135.00
4	Utran CGPP-II	GT+ST	374.00	374.00
5	Hazira CCGT-GSEG	2x52+1x52.1(ST)	156.10	156.10
6	Torrent power	2 x 32.5 + 1 x 35	100.00	100.00
7	GIPCL (Baroda)	1x106+1x54	160.00	160.00
8	Essar Gas (Private S	3x110+1x185(ST)	515.00	515.00
9	GPEC (Private Sec.)	3x135+1x250(ST)	655.00	655.00
10	Sugen CCPP - Torre	1x382.5	382.50	382.50
Total Gas			2705.22	2696.22
तापीय(THERMAL)				
1	Dhuvaran	2x110	220.00	220.00
2	Ukai	2x120+2x200+1x210	850.00	850.00
3	Gandhinagar	2x120+2x210+1x210	870.00	870.00
4	Wanakbori	6x210+1*210	1470.00	1470.00
5	Sikka	2x120	240.00	240.00
6	Kutch Lignite	2x70+1x75	215.00	215.00
7	Akrimopa Lignite	2x125	250.00	250.00
8	Mundra (APL)	2X330	660.00	660.00
9	AE Co. (Private)	2x30+3x110	390.00	400.00
10	Surat Lignite (Private	2x125	250.00	250.00
Total Thermal			5415.00	5425.00
TOTAL (HY+ G + TH)			8899.22	8900.22
Total Diesel			17.48	17.48
RES (incl wind+BG+BP+U&I)			1397.50	1397.50
Grand Total			10314.20	10315.20

(B) मध्यप्रदेश (MADHYAPRADESH)

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Uprated
जलीय (HYDRO)				
1	Chambal Hydro Projects			
a	Gandhisagar (Share)	5x23 (50%)#	57.50	57.50
b	R.P.Sagar (Share)	4x43 (50%)#	86.00	86.00
c	Jawahar (Sagar)	3x33 (50%)#	49.50	49.50
2	Pench (Share)	2x80 (66.67%)\$	106.67	106.67
3	Bargi	2x45	90.00	90.00
4	Bansagar Tons stage	3x105+2x15+3x20+2X	425.00	425.00
5	Rajghat	3x15 (50%)	22.50	22.50

6	Sardar Sarovar	57% (5x50 + 6x200)	826.50	826.50
7	Madhikheda HPS	2X20	40.00	40.00
8	Indira Sagar	8x125	1000.00	1000.00
9	Omkareshwar	8x65	520.00	520.00
Hydro included in RES				
10	Satpura Micro HPS	0.5x2	1.00	1.00
11	Birsingpur	1X20	20.00	20.00
12	Bargi (LBC)	2X5	10.00	10.00
13	Tawa Hydro PS (Pvt.	1x13.5	13.50	13.50
14	Madikheda HPS	1x20	20.00	20.00
Total hydro			3288.17	3288.17
तापीय(THERMAL)				
1	Amarkantak	2x120+1x210	450.00	450.00
2	Satpura -I	5x62.5 (60 %)#	187.50	187.50
3	Satpura -II	1x200+1x210	410.00	410.00
4	Satpura -III	2x210	420.00	420.00
5	Sanjay Gandhi	4x210+1x500	1340.00	1340.00
Total Thermal			2807.50	2807.50
TOTAL (HY+ TH)			6095.67	6095.67
RES (incl wind+BG+BP+U&I)			262.71	262.71
Grand Total			6358.38	6358.38

(C) छत्तीसगढ़ (CHHATTISGARH)

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Uprated
जलीय (HYDRO)				
1	Hasdeo Bango	3x40	120.00	120.00
Hydro included in RES				
2	Gangrel	2x2.5	5.00	5.00
Total Hydro			125.00	125.00
तापीय(THERMAL)				
1	Korba (E)-II, III, IV	4x50+2x120	440.00	440.00
2	Korba (E) Extn.-V	2x250	500.00	500.00
3	Korba (W)	4x210	840.00	840.00
4	NSPCL	2x250	500.00	500.00
5	Jindal TPP	4x250	1000.00	1000.00
6	Lanco	1x330	330.00	330.00
Total Thermal			3610.00	3610.00
TOTAL (HY+ TH)			3735.00	3735.00
RES (incl wind+BG+BP+U&I)			174.15	174.15
Grand Total			3909.15	3909.15

(D) महाराष्ट्र (MAHARASHTRA)

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Uprated
जलीय (HYDRO)				
1	Koyna -I	4x80	320.00	320.00
2	Koyna-II	4x70	280.00	280.00
3	Koyna-III	4x80	320.00	320.00
4	Koyna-IV	4x250	1000.00	1000.00
5	Koyna-DPH	2x20	40.00	36.00
6	Vaitarna	1x60	60.00	60.00
7	Bhira - TR	2x40	80.00	80.00
8	Tillari	1x60	60.00	60.00
9	Bhandardara	1x34	34.00	34.00
10	Pench- (33.33 %) Sh	2x80	53.33	53.33

11	Sardar Sarovar	27% (5x50 + 6x200)	391.50	391.50
12	Ghatghar PSS	2x125	250.00	250.00
13	Bhira	6x25	150.00	150.00
14	Bhivpuri	3x24	72.00	72.00
15	Khopoli	6x12	72.00	72.00
16	Bhira PSU	1x150	150.00	150.00
Hydro included in RES				
17	Bhandardara	1x12	12	12
18	Bhatghar	1x16	16	16
19	Bhatsa	1x15	15.00	15.00
20	Dimbhe	1x5	5.00	5.00
21	Dhom	2x1	2.00	2.00
22	Dudhganga	2x12	24.00	24.00
23	Eldari	3x7.5	22.50	22.50
24	Kanhar	1x4	4.00	4.00
25	Panshet	1x8	8.00	8.00
26	Varasgaon	1x8	8.00	8.00
27	Manikdoh	1x6	6.00	6.00
28	Paithan	1x12	12.00	12.00
29	Pawana	1x10	10.00	10.00
30	Radhanagari	4x1.2	4.80	4.80
31	Surya	1x6	6.00	6.00
32	Surya	3x0.25	0.75	0.75
33	Terwanmedhe	1x0.2	0.20	0.20
34	Ujjani	1x12	12.00	12.00
35	Vaitarna DTPH	1x1.5	1.50	1.50
36	Vir	2x4.5	9.00	9.00
37	Warna	2x8	16.00	16.00
38	Yeoteshwar	1x0.08	0.08	0.08
39	Bhivpuri	2x12 +2 X 1.5	27.00	27.00
40	Khopoli	2x12	24.00	24.00
		Total Hydro	3578.66	3574.66
गॅस(GAS)				
1	Uran	4x60+4x108	672.00	612.00
2	Uran WHR	2x120	240.00	240.00
3	Trombay (7A & 7 B)	1x120+1x60	180.00	180.00
4	Ratnagiri GPPL Phase	CTG1A+CTG1B+STG1	740.00	740.00
		CTG2A+CTG2B+STG2	740.00	740.00
		CTG3A+CTG3B+STG3	740.00	740.00
		Total Gas	3312.00	3252.00
तापीय(THERMAL)				
1	Nasik	2x125+3x210	880.00	880.00
2	Koradi	4x105+1x200+2x210	1040.00	1040.00
3	Bhusawal	1x55+2x210	475.00	475.00
4	Parli	2x20+3x210	670.00	670.00
5	New Parli TPS	1x250	250.00	250.00
6	Khaparkheda	4x210	840.00	840.00
7	Chandrapur	4x210+3x500	2340.00	2340.00
8	Paras	1x55	55.00	55.00
9	Paras Ext.	1x250	250.00	250.00
10	REL -Dahanu(BSES)	2x250	500.00	500.00
11	Trombay TPC	1x150+2x500+1x250	1400.00	1400.00
		Total Thermal	8700.00	8700.00
		TOTAL (HY+ G + TH)	12160.00	12100.00
		RES (incl wind+BG+BP+U&I)	2159.21	2159.21
		Grand Total	14319.21	14259.21

(E) गोवा (GOA)

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Upated
	गैस(GAS)			
1	Reliance Salgaonkar	1x39.82+1X8.2	48.00	48.00
		Total Gas	48.00	48.00
		RES (incl wind+BG+BP+U&I)	30.05	30.05
		Grand Total	78.05	78.05

(I) केन्द्रीय क्षेत्र (CENTRAL SECTOR)

S.N	Station	इकाई (UNITS) (No. x MW)	क्षमता (CAPACITY)	
			Installed	Derated/Upated
	गैस(GAS)			
1	Kawas GPS	4x106+2x116.1	656.20	656.20
2	Gandhar GPS	3x144.3+1x224.49	657.39	657.39
		TOTAL (GAS)	3533.59	3533.59
	तापीय(THERMAL)			
1	Korba STPS	3x200+3x500	2100.00	2100.00
2	Vindhyachal STPS I,	6x210+2x500+2X500	3260.00	3260.00
3	Sipat STPS-II	2x500	1000.00	1000.00
		TOTAL (THERMAL)	6360.00	6360.00
	न्युक्लीयर (NUCLEAR)			
1	TAPS 1 & 2	2x160	320.00	320.00
2	TAPP 3&4	2x540	1080.00	1080.00
3	Kakrapar APS	2x220	440.00	440.00
		TOTAL (NUCLEAR)	1840.00	1840.00
		TOTAL (G + TH+ N)	11733.59	11733.59
TOTAL INSTALLED CAPACITY WESTERN REGION			46712.58	46653.58

माह दिसम्बर 09 में ग्रिड के प्रमुख उप केन्द्र का विद्युतदाब रूपरेखा

1. Voltage Profile of major Sub-Stations for the month of December -2009

क्षेत्र Region	सब स्टेशनका नाम Sub- Station Name	अधिकतम विद्युतदाब Nominal Voltage (kV)	विद्युतदाब स्थिती (प्रतिशत समय) Percentage of time when voltage			अधिकतम विद्युतदाब Max. Voltage (kV)	न्यूनतम विद्युतदाब Min. Voltage (kV)	संक्षिप्त स्पष्टीकरण Brief Explanation
			Below 0.97p.u.	0.97- 1.03p.u	Above 1.03 p.u.			
Western	धुले Dhule	400	0	5.55	94.45	438	388	
	असोज Asoj	400	0	4.25	95.75	425	404	
	कराड Karad	400	0	16.12	83.88	429	392	
	कासोर Kasor	400	0	56.22	43.78	427	372	
	इन्दौर Indore	400	0	60.49	39.51	424	392	
	इटारसी Itarsi	400	0	26.25	73.75	428	397	
	जेतपुर Jetpur	400	30.66	48.88	20.46	420	377	
	भिलाई Bhilai	400	0	60.25	39.75	418	390	
	बिना Bina	400	2.11	80.26	17.63	419	382	
	ग्वालियर Gwalior	400	16.33	65.85	17.82	426	364	

PEAK DEMAND FOR DEC.2009

State	Catered	UNSCH LS	FC	SCHLS	Total	Date	Time	Freq.
दिव दमण DD								
पंजीकृत Registered	222	-	-	-	222	12.12.09	4:00	50.08
दादरा नगर हवेली DNH								
पंजीकृत Registered	548	-	-	-	548	30.12.09	21:00	49.71
गुजरात GUJARAT								
पंजीकृत Registered	9025	-	-	-	9025	22.12.09	19:00	49.66
आंकलित Computed	9025	860	107	-	9992	22.12.09	19:00	49.66
असीमित Unrestricted	9025	860	107	40.00	10032	22.12.09	19:00	49.66
छत्तीसगढ रा .वि.बोर्ड Chhattisgarh								
पंजीकृत Registered	2559	-	-	-	2559	28.12.09	19:00	49.63
आंकलित Computed	2559	0	33	-	2592	28.12.09	19:00	49.63
असीमित Unrestricted	2559	0	33	18	2610	28.12.09	19:00	49.63
मध्य प्रदेश रा .वि.बोर्ड Madhy Pradesh								
पंजीकृत Registered	6198	-	-	-	6198	16.12.09	3:00	49.94
आंकलित Computed	6198	0	13	-	6211	16.12.09	3:00	49.94
असीमित Unrestricted	5811	0	75	1331	7217	28.12.09	19:00	49.63
महाराष्ट्र रा .वि.बोर्ड-MAHA-RASHTRA								
पंजीकृत Registered	14212	-	-	-	14212	15.12.09	19:00	49.53
आंकलित Computed	14212	3653	234	-	18099	15.12.09	19:00	49.53
असीमित Unrestricted	14212	3653	234	400	18499	15.12.09	19:00	49.53
पश्चिम क्षेत्र WESTERN REGION								
पंजीकृत Registered	32277	-	-	-	32277	15.12.09	19:00	49.53
आंकलित Computed	32277	4483	531	-	37291	15.12.09	19:00	49.53
असीमित Unrestricted	32277	4483	531	1464	38755	15.12.09	19:00	49.53

Note:

UNSCHLS= Unscheduled Load shedding
 SCHLS = Scheduled Load shedding
 FC = Frequency correction
 Registered = Actual catered
 Computed = Registered + UNSCHLS + FC
 Unrestricted = Computed+SCHLS+Holiday staggering+Recess staggering
 Power number = 3.5% of Registered demand

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	1	125	Nov-09
		2	125	Aug-09
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	Dec-10
	OTHER PROJECTS			
1	Gujarat lignite NLC&GPCL joint venture	Stage 1	1500	2011-12
		Stage 2	500	2012-13
2	Dhuvran 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	2011-12
		2	500	2011-12
3	Korba west -III TPP	1	500	Jun-12
	OTHER PROJECTS			
1	Bhaiyathan TPP Phase 1	1	500	Dec-12
		2	500	Aug-13
2	IFFCO	1	660	Aug-12

			660	Dec-12
D	<u>MAHARASHTRA</u>			
1	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	2010-11
		2	300	2010-11
		3	300	2010-11
		4	300	2010-11
	<u>OTHER PROJECTS</u>			
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 212
E	<u>CENTRAL SECTOR</u>			
1	Sipat TPP	1	660	2010 -11
		2	660	2010-11
		3	660	2010-11
2	Korba STPS - III	7	500	Feb-10
3	Mauda TPP	1	500	2011-12
		2	500	2012-13

Progress of Transmission Line under construction in Western Region

	Name of transmission line	Length in ckt km.	Total Locations(N os)	Commiss- ioning Schedule	Remarks
A	ગુજરાત Gujarat				
	I)400kV Lines				
1	Mundra-Varsana D/C	166	225	,Feb - 10	work under progress.
2	Tappar(Varsana)-Hadala	299.88	458	,Feb - 10	work under progress.
3	Essar - Hadala	232	351	,Nov - 09	work under progress.
4	Lillo to kosamba from Asoj-ukai	64	88		Foundation work under progress
	II)220kV Lines				
1	Lilo at Mota of Ukai (t)-Vav-II ckt	9.6	16	Sep '08	Lilo point jumper work pending
2	Lilo of Mangrol - Mobha D/C line	218	358	9-Jun	ROW problem
3	Chornia- Bala D/C	59.12	96	9-Feb	Line charged on 29.04.09
4	Rajpur - Dudhrej D/C	19.16	40	Dec' 08	Work completed
5	Lilo at Dinod of Vav - Zagadia line	10.2	17	March' 09	Line charged on 08.07.09
6	Lilo at Chitrod of Deodar - Anjar line	2.1	0		Feeder bay work under progress
7	Lilo at Varsana of Shivilakha - Nanikhakhar	34	54	March' 09	ROW problem
8	Mundra-Varsana D/C	166	254	June' 09	Erection work under progress
9	LILLO at Lakhani of Kansari-Tharad D/C	8		March' 10	Tender under acceptance
10	LILLO at Botad of Kasor- Vartej line	38.8	58	Oct' 09	Agency finalised . Work to be started
11	Varsana - Morbi	214	351	Aug' 09	ROW problem
12	Viramgam - Salejada	124	185	Nov' 09	work under progress.
13	Lilo at Bhat of Viramgam - Salejada line	36	57	Nov' 09	work under progress.
14	Utran- Kosamba D/C	86	143	Oct' 09	R O W problem
B)	मध्य प्रदेश Madhya Pradesh				
	I) 400kV Lines				
			NIL		
	II) 220kV Lines				
1	Lilo of 1st ckt DCDS200KV Gwalior-Malanpur at 400kv Gwalior PGCIL S/S	16.9	31	2009-10	Work under progress
2	Satna - Chhatapur line	140	518	2009-10	Work under progress
3	Amarkantak- Birsinghpur DCDS at 400kv s/s Sukha (PGCIL)	300	547	2008-09	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	Work almost compltd. Line charged upto gantry of 220k Pipariya s/s

6	200kv Bhopal(400kv)-Ashta for Ashta s/s	194	322	2009-10	work stopped due to contractors problem.
7	Sujalpur PGCIL(400KV)-220KV Rajgarh Biaora line	134.4	227	2008-09	Work completed.
8	Jabalpur-Narsingpur part line for 400kv PGCIL Sukha	158	253	2009-10	Work in progress
9	Chhindwara- Betul	270	462	2009-10	Work in progress
10	Chegoan - Nimrani	220	370	2009-10	Work in progress
11	Lilo of one ckt of 200kv Satpura - Itarsi for Handia	220	273	2009-10	Work in progress . Line charged on 12.06.09
12	Rerouting of 220kv Makronia traction feeder through 220 kv Sagar	10.18	21	2008-09	Work completed.
13	LILo of 2nd ckt of 220 kv Pithampur-Ratlam line for 220kv Badnagar	20.29	35	2008-09	Work completed except termination of gantry
14	LILo of 2nd ckt of 220kv Itarsi - Bhopal for 220kv Hosangabad	10.75	22	2009-10	Line charged on 13.06.09
15	Astha - Bercha line	45	158	2009-10	Work in progress
16	Maheshwar - Pithampur	108	189	2009-10	Forest approval received on 01.01.09
17	Maheshwar - Nimrani	54	89	2009-10	Work commenced.
18	Maheshwar - Rajgarh	230	403	2009-10	Forest approval received on 01.01.09
19	Lilo of one ckt of 220kv Bhopal-Bina for Vidisha new s/s	42.32	71	2009-10	Work stopped due to contractor problem . Notice served to contractor.
20	Dewas - Astha line	146	257	2009-10	Work in progress
C) छत्तीस गढ़ Chhatisgarh					
I) 400kV Lines					
1	LILo of 400 kV Korba(west)-Bhilai to Raipur DCDS	50		2009-10	Order placed . Work to be started shortly
2	400 kV Korba(West) – Khedamara DCDS	220		2009-10	Order placed . Work to be started shortly
II) 220kV Lines					
1	Korba- Bishrampur Dcss	153	509	2009-10	Case submitted for 2nd phase approval to AIG(FC)Min. of ENV&forest,New Delhi
2	Lilo of 220kv Bhatapara-Raipur (PGCIL)at Doma	21.47	76	2009-10	Work under progress
3	Suhela- PGCIL Bhatapara DCDS line	13.53	45+2G	2009-10	Work under progress
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	2009-10	Work in progress
6	Khedamara-Bemetara line +1No bay each at Khedamara and Bemetara	50.9	150	2009-10	Work in progress
7	Chhuri - Mopka DC DS line	90		2009-10	Order placed
8	I/C between new power house at Korba (E)to proposed 220 kv Chhuri	30		2009-10	Work to be taken up

9	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
10	Diversion of 220kv line of Korba - Bhatapara and 220k I/C in between Korba (w) and proposed 220 kv Cchuri s/susing section of Korba - Amarkantak- I & II	14		2009-10	Work to be taken up
D) महाराष्ट्र Maharashtra					
I) 400kV Lines					
1	Dabhol-Nagothane ckt-II	135.56	337	,Dec 09	R O W problem
2	Diversion of Chandrapur-Parli s/c for WCL	7.5	20	,June 09	ROW Problem
3	Diversion of Chandrapur-Parli d/c for WCL	29	40	,June-09	work in progress
4	Bhusawal-ii -A'rangabad(loc1-270)	190	283	,Mar-10	work in progress
5	Bhusawal- -A'rangabad(loc270-Waluj)	88.02	246	,Mar-10	work in progress
6	Jaigad-New Koyna D/C	114	160	,Dec-09	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	,Dec-09	work in progress
9	LILO on Lonikhand-Padge at Chakan	3	5	,Jul 09	work in progress
10	New Khaerkheda- Koradi	5	13	,Jul 09	survey compltd,Excavation in progress
11	LILo of Koradi- Chandrapur at new Khaperkheda	2.88	8	,Jul 09	Line charged on 12.10.09 beyond Khaperkheda switchyard
II) 220kV Lines					
1	Lilo of Tarapur-Borivali at Boisar-II	8	15	,March-10	Court case at loc. No 11
2	From PGCIL to Wada s/s	57	210	,March-10	work held up due to court case
3	Lilo of Nasik-Kalwa 3&4at Bapgaon	3	9	,March-10	work held up due to local prob.
4	Nagothane-Wadkhal D/C	30	93	,March-10	Extension of contract is under process at C.O
5	Lilo of Padge- Kalwa at Temghar	1.5	8	,June-09	work is obstructed by locals
6	Lilo of Mulund-Borivali at Bhandup	3		,Dec-09	permission for u/g cable duct is awaited from MCGM
7	Phursungi-Jejuri D/C	62	100	,Mar-10	check survey started from23.12.08
8	Lilo onChinchwad-Kandalgaon at Hinjwadi-II	10	39	,June-10	Work in progress
9	PGCIL Talegaon to Urse	10.27	40	,Dec-09	Work in progress
10	Shifting of Telco Bhosari interconnectig bay at Chinchwad	0.5	6	,Dec-09	Work stopped. As s/s gantry not erected.

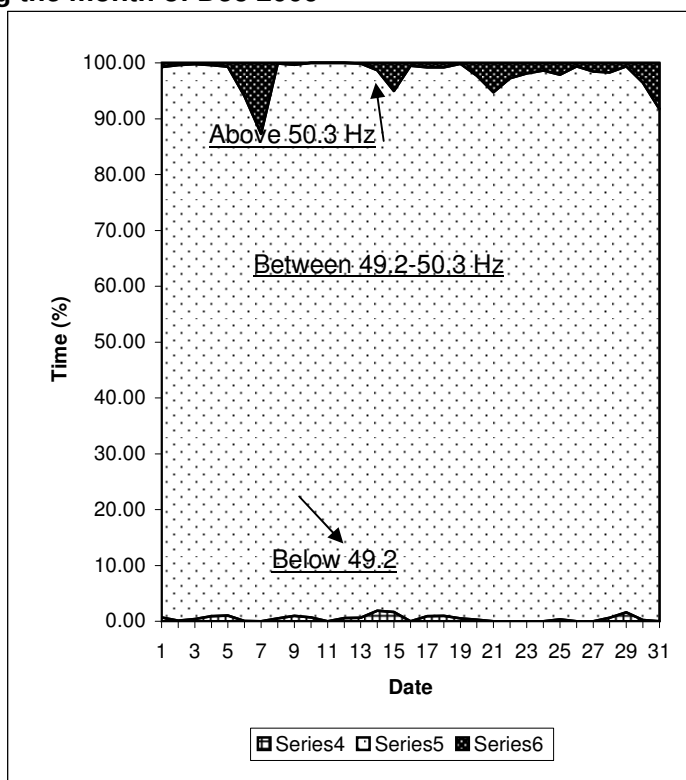
11	220kv line from 400kv Chakan to M/S Volks wagen Chakan	4.68	14	,June-09	ready for commissioning. Waiting for Chakan & Volkswagen s/s
12	Lilo to Bhosari-Chinchwad at Chakan s/s	18		,Dec-09	Work in progress
13	Lilo to Pusad- Girawal at Hingoli	44	75	,Sep-09	Work in progress
14	Chitegaon-Shendra D/C	43.1		,March-10	work not started
15	Reorientation of Padegaon I&II, Bableshtar	3		.Dec-09	Survey started
16	Beed - Patoda D/C	45	146	,June-10	Work in progress
17	Parli TPS-Nanded M/C line (Waghala)	90.3		,June-10	work not started
18	Jaina- Chikhali D/C	150	248	,Dec-10	work very slow
19	220kv D/C on D/C tower from 400kv Bhusawal-II to 220kv Amalner	182	326	,March-10	Work in progress
20	220kv D/C line on M/C tower from new Bhusawal s/s to existing 400kv Khadka	182	326	,Nov- 09	Work in progress
Sl.No	पावरग्रिड POWERGRID				
	765 kV & 400kv				
A)	Sipat II supplementary Trans system				
1	400 Kv Akola – Aurangabad D/C	482	652	Nov-10	Final checking under progress
B)	W R Strengthening scheme-II				
1	765 kv 2nd s/c Seoni(PG)-Wardha(PG)	270	734	,Jul-10	
2	Wardha-Parli D/C(quad.)	674	895	,Jul-10	
3	Raipur - Wardha D/C	741	989	,Jul-10	
4	Bhadravati- Parli D/C	776	1046	,Jul-10	
5	Parli (MSEB)-Parli (PG) D/C	14			Engg & survey under progress
6	Parli (PG)-Pune D/C	616			
7	Pune (PG)-A'bad(MSEB) d/c	450			
8	Parli(PG)- Solapur D/C	392			
10	lilo of L'khand-Kalwa at Pune(PG) d/c	48			
11	Lilo of Solapur-Karad D/C at Solapur (PG)	52			
12	Rajgarh(PG)-Karamsad(GEB) D/C	480			
13	Limdi-Ranchodpura D/C	480			
14	Ranchodpura-Zerda D/C	310			
15	765KV Bina- Gwalior 2nd ckt.	233	624	,March-10	
16	Korba(NTPC)-Birsinghpur(MPSEB) D/C	453	644	,July-10	
17	Birsinghpur-Damoh (PG) D/C	458	637	,July-10	
18	Damoh(PG)-Bhopal D/C	430	576	,July-10	

19	Gandhar-Kawas D/C	190		*	* 33 month from investment approval or from tying up date of FSA by NTPC whichever is later
20	Gandhar-Rajkot D/C	600		*	
21	Lilo of Bina- Nagda D/C at Shujalpur	60		*	
22	Vapi- Navi Mumbai D/C	258	385	,Sep-10	severe ROW problem
23	Vapi- Khadoli 220kv D/C	56	95	,March-10	severe ROW problem
24	Lilo of L'khand-Kalwa S/C at Navi Mumbai	10	33	,Sep-10	severe ROW problem
25	Dehgam Pirana D/C	106	146	,Nov- 10	
INTER-REGIONAL LINES					
1	Ranchi- Rourkela D/C	288	401	,March-10	ROW Problem
2	Raigarh-Rourkela D/C	440	586	,March-10	
3	765 kv Seoni-Bina S/C	293	788	,March-10	

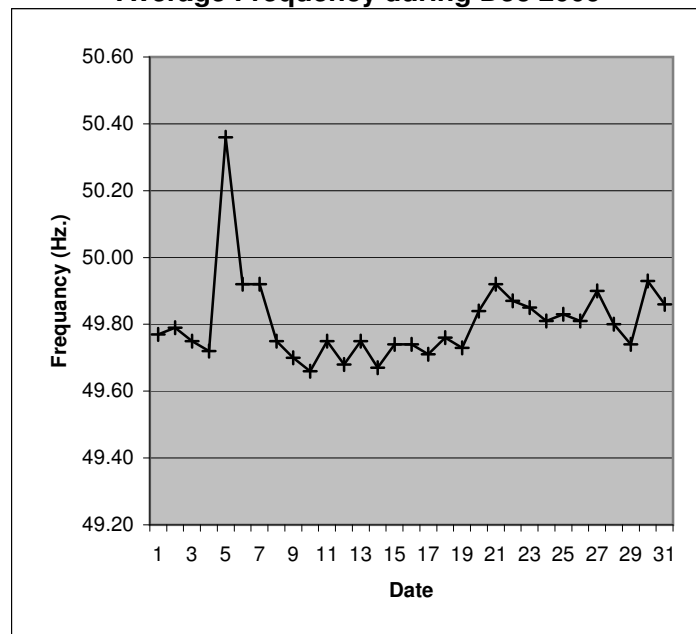
दिसम्बर 2009 माह के दौरान आवृत्ति रेजीम

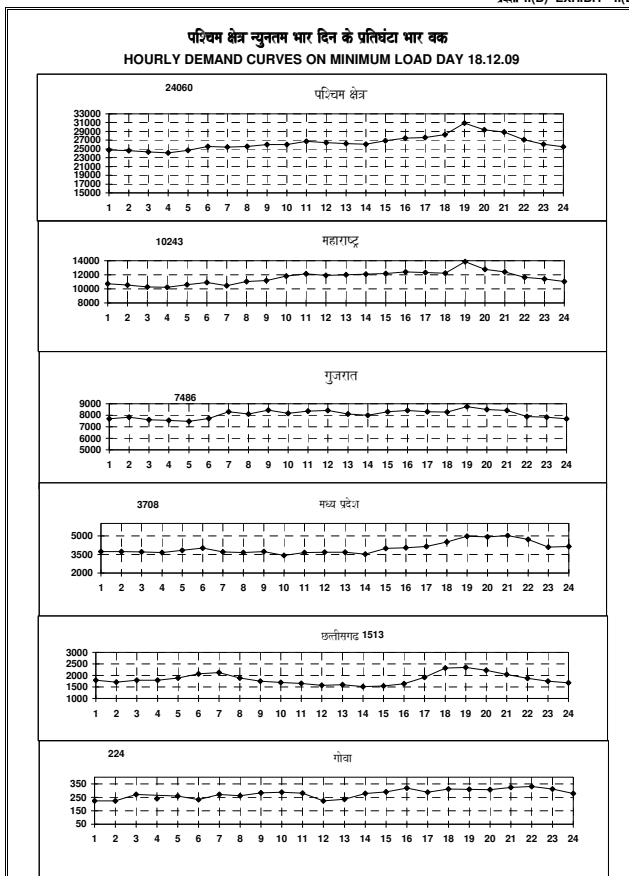
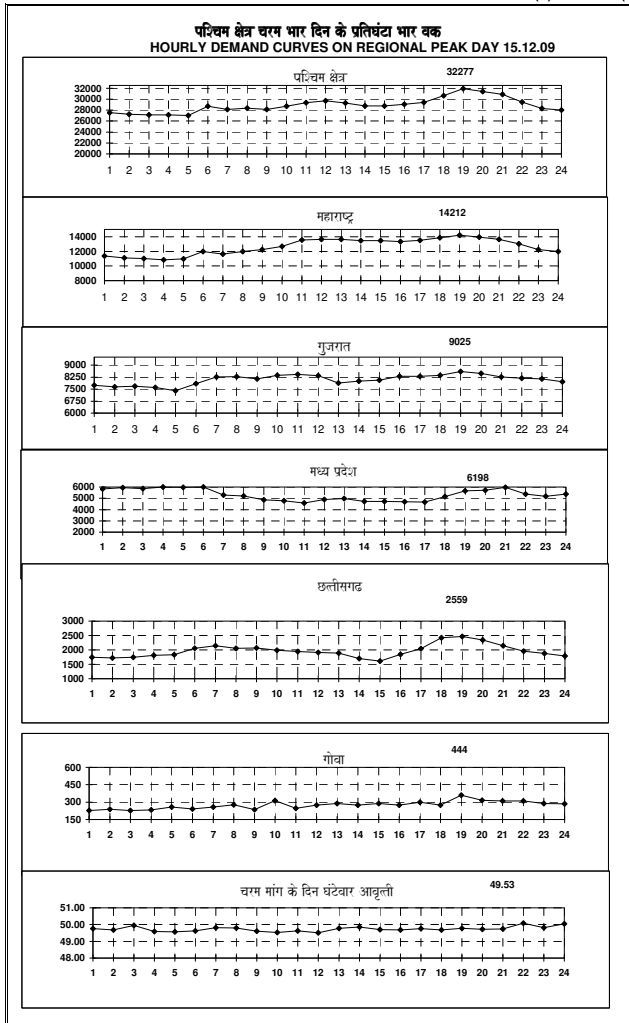
Frequency Regime during the month of Dec 2009

Date	Time (%)			Average Frequency (Hz)
	Below 49.2	Between 49.2-50.3	Above 50.3	
1	0.69	98.55	0.76	49.77
2	0.14	99.44	0.42	49.79
3	0.42	99.37	0.21	49.75
4	0.90	98.68	0.42	49.72
5	1.04	98.27	0.69	50.36
6	0.07	93.97	5.96	49.92
7	0.00	87.30	12.70	49.92
8	0.49	99.37	0.14	49.75
9	0.97	98.68	0.35	49.70
10	0.69	99.31	0.00	49.66
11	0.00	100.00	0.00	49.75
12	0.55	99.45	0.00	49.68
13	0.62	99.24	0.14	49.75
14	1.87	96.81	1.32	49.67
15	1.66	93.28	5.06	49.74
16	0.00	99.50	0.50	49.74
17	0.90	98.30	0.80	49.71
18	0.97	98.20	0.83	49.76
19	0.49	99.31	0.20	49.73
20	0.28	97.43	2.29	49.84
21	0.00	94.70	5.30	49.92
22	0.00	97.23	2.77	49.87
23	0.00	98.13	1.87	49.85
24	0.00	98.61	1.39	49.81
25	0.35	97.51	2.14	49.83
26	0.00	99.38	0.62	49.81
27	0.00	98.47	1.53	49.90
28	0.62	97.65	1.73	49.80
29	1.60	97.78	0.62	49.74
30	0.21	96.25	3.54	49.93
31	0.00	91.68	8.32	49.86



दिसम्बर 2009 माह के दौरान औसत आवृत्ति Average Frequency during Dec 2009





माह दिसम्बर 2009 का क्षेत्रीय भार वक्र

Monthly Load Duration curve for the month of Dec 2009

Maximum Demand = 32277 MW

Minimum Demand = 24060 MW

