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NORTHERN REGION GRID REPORT FOR THE MONTH OF FEBRUARY 2005

A) Summary Report

1. Grid Overview during the Month

In the month of February 2005 the Power supply in the region was satisfactory . The average energy and peak MW shortages were 8.11% and 8.62%. The average system frequency was 49.72 Hz and frequency remained in normal band i.e. between 49.00 & 50.50 for 92.93 % of time . The average frequency variation index during the month was 2.62 and standard deviation was 0.43 . The maximum regional availability during the month was 21740 MW . The average demand met was 18236 MW and 403.27 MU in terms of energy . The maximum requirement was 23791 MW and average requirement was 438.85 MU in terms of energy.

voltage profile on most of the 400 KV/220KV buses were satisfactory during this month .

Due to heavy snow fall in J&K 220 KV Kisenpur-Pampore D/C remained out of service since 18.32 hrs of 08.02.2005 due to collapse of towers and snapping of conductors etc., badly affecting the normal power supply in the valley. The valley was connected to the grid through 132 kv Udampur- Wanpoh line. The generation at Uri and load in the valley area was regulated through proper coordination among RLDC, Bemina control room and URI HEP to run the system in stable condition for few days. However this line also developed technical snags on many occasions and finally J&K valley power supply was maintained by running URI HEP in island mode . During this period around 305-380 MW power was made available to J&K valley against normal requirement of 500 MW to 600 MW . Special efforts are being made to restore the 220 KV Kisenpur-Pampore line despite adverse weather conditions and line is expected to be normalised by first week of march 2005.

2. Commissioning of new Units/Lines/Transformers during the month

- 1 **400 kv Rihand -Allahabad line first time test charged on 03.02.2005.**

3. Monthly Frequency Profile :

Maximum frequency 51.27 Hz at 02.15 hours on 08.02.2005
 Minimum frequency 48.53 Hz at 18.13 hours on 01.02.2005

Average frequency 49.72 Hz

Frequency distribution in %

Hz	< 48.50	<49.00	49.00-50.50	> 50.50
% of time	0.00	5.92	92.93	1.29

Monthly Frequency Variation Index 2.62
 Maximum 6.39
 Minimum 0.89

4. Power Supply Position :**a. Average Energy/day (Net)**

State / U.T.	Demand met MU/Day	Requirement MU/Day	Shortage MU/Day	Shortage %
Punjab	61.97	65.68	3.71	5.64
Haryana	47.48	52.02	4.54	8.73
Rajasthan	86.89	90.58	3.69	4.07
U.P.	112.94	124.75	11.81	9.47
Uttanchal	12.30	12.95	0.65	5.06
Delhi	49.03	49.39	0.36	0.73
H.P.	11.23	11.80	0.57	4.82
J & K *	16.97	27.22	10.25	37.66
Chandigarh	2.87	2.87	0.00	0.00
N.F.F./Rail	1.60	1.60	0.00	0.00
Total	403.27	438.85	35.58	8.11

b. Peak MW

State / U.T.	MAX. Demand met MW	MAX. Requirement MW	Shortage MW	Shortage %
	A	B	C	(C/B)*100
Punjab	3711	3972	261	6.57
Haryana	3096	3424	328	9.58
Rajasthan	4372	4528	156	3.45
U.P.	5858	7663	1805	23.55
Uttanchal	740	823	83	10.09
Delhi	3070	3138	68	2.17
H.P.	655	671	16	2.38
J & K *	1200	1350	150	11.11
Chandigarh	164	164	0	0.00
N.F.F./Rail	71	71	0	0.00
Region	21740	23791	2051	8.62
Diversity Factor = 1.11				

* Approximate and Estimated

5. **Schedule Vs Drawal By the Constituents :****(SEM DATA)**

(All figs in M.U)

State / U.T.	Schedule	Actual	OD(+)/UD(-)
Punjab	625.86	616.04	-9.82
Haryana	581.58	681.89	100.31
Rajasthan	720.36	844.52	124.16
U.P.	1484.59	1414.60	-69.99
Uttranchal	202.39	194.82	-7.57
Delhi	691.56	613.59	-77.97
H.P.	239.62	235.38	-4.24
J & K	453.68	433.03	-20.65
Chandigarh	90.29	83.75	-6.54
N.F.F./Rail	36.58	44.70	8.12

6. **Inter Regional Exchanges****Energy
M.U.****Peak
MW****Import**

a)	From WR over HVDC Vindhyachal B/B	52.79	500
b)	From WR over 220 kV Ujjain-Kota	0.00	0
c)	From ER over HVDC Sasaram B/B	225.81	500
d)	From ER over 220 kV Pusauli-Sahupuri	81.01	188

Export

e)	To WR over HVDC Vindhyachal B/B	10.99	500
f)	To WR (MP) over 220 kV Auraiya-Malanpur	20.57	42
g)	To WR(MP) over 220 kV Kota-Ujjain	0.00	0
h)	To ER over 220 kV/132kV lines	2.22	15
i)	To ER over HVDC Sasaram B/B	0.00	0
j)	To Nepal over 132 kV Tanakpur-Mahendernagar	5.48	19

B). Detailed Report**I. Details of Installed/Effective Capacity at the end of February 2005**

	<u>STATION</u>	<u>INSTALLED CAPACITY</u>	<u>EFFECTIVE CAPACITY</u>
		(MW)	
A	NTPC		
(a)	Badarpur TPS	3x100+2x210 720.00	3x95+2x210 705.00
(b)	Singrauli STPS	5x200+2x500 2000.00	5x200+2x500 2000.00
(c)	Rihand STPS	2x500 1000.00	2x500 1000.00
(d)	Dadri NCTPS	4x210 840.00	4x210 840.00
(e)	Unchahar TPS	2x210 + 2x210 840.00	2x210 + 2x210 840.00
(f)	Tanda TPS	4x110 440.00	4x110 440.00
(g)	Anta GPS	3x88.71+1x153.20 419.33	3x88.71+1x153.20 419.33
(h)	Auraiya GPS	4x111.19+2x109.30 663.36	4x111.19+2x109.30 663.36
(i)	Dadri GPS	4x130.19+2x154.51 829.78	4x130.19+2x154.51 829.78
(j)	Faridabad GPS	2x137.75 +1x156.07 431.57	2x137.75 +1x156.07 431.57
	Sub-Total	8184.04	8169.04
B	NHPC		
(a)	Bairasiul	3x60 180.00	3x60 180.00
(b)	Salal Stage - I	3x115 345.00	3x115 345.00
(c)	Salal Stage - II	3x115 345.00	3x115 345.00
(d)	Tanakpur HPS	3x40 120.00	3x31.4 94.20
(e)	Chamera HPS-I	3x180 540.00	3x180 540.00
(f)	Chamera HPS-II	3x100 300.00	3x100 300.00
(g)	URI	4x120 480.00	4x120 480.00
	Sub-Total	2310.00	2284.20
C.	NPC		
(a)	RAPS -A	2x220 440.00	1x100+1x200 300.00
(b)	RAPS -B	2x220 440.00	2x220 440.00
(c)	NAPS	2x235 470.00	2x220 440.00
	Sub-Total	1350.00	1180.00
D.	Nathpa-Jhakri	6x250 1500.00	6x250 1500.00
Total Central Sector (A + B + C +D)		13344.04	13133.24
2	BBMB		
(a)	Bhakra Complex		
(i)	Bhakra (L)	5x108 540.00	5x108 540.00
(ii)	Bhakra (R)	5x157 785.00	5x157 785.00
(iii)	Ganguwal	1x29.25+1x24.20+1X24.20 77.65	1x29.25+1x24.20+1X24.20 77.65
(iv)	Kotla	1x29.25+1x24.20+1X24.20 77.65	1x29.25+1x24.20+1X24.20 77.65
	Sub-Total	1480.30	1480.30
(b)	Dehar	6x165 990.00	6x165 990.00
(c)	Pong	6x66 396.00	6x66 396.00
	Total BBMB	2866.30	2866.30

contd/-

3 CHANDIGARH					
(a)	Diesel Gen Sets		2.00		1.40
4 DELHI					
	THERMAL				
(a)	Indra Prastha	3x62.5+1x60	247.50	3x62.5+1x60	247.50
(b)	Rajghat	1x15+2x67.5	150.00	2x67.5	135.00
(c)	Gas Turbines	6x30+3x34	282.00	6x30+3x34	282.00
(d)	Pragati Gas Turbines	2x104.6+1x121.2	330.00	2x104.6+1x121.2	330.00
	Total DELHI		1009.50		994.50
5 HARYANA					
	HYDRO				
(a)	Western Yamuna-I & II Canal (WYC)	6x8+2x7.2	62.40	6x8+2x7.2	62.40
	Total Hydro		62.40		62.40
	THERMAL				
(b)	Faridabad (New)	3x60	180.00	3x55	165.00
(c)	Panipat	4x110+2x210	860.00	4x110+2x210	860.00
	Total Thermal		1040.00		1025.00
(d)	Magnum Diesel (IPP)	4x6.3	25.20	4x6.3	25.20
	Total Haryana		1127.60		1112.60
6 HIMACHAL PRADESH					
	HYDRO				
(a)	Giri	2x30.00	60.00	2x30.00	60.00
(b)	Bassi	4x15.00	60.00	4x15.00	60.00
(c)	Binwa	2x 3.00	6.00	2x 3.00	6.00
(d)	Rongtong	4x 0.50	2.00	4x 0.50	2.00
(e)	Andhra	3x 5.65	16.95	3x 5.65	16.95
(f)	Micro Hydel+Killar+Thirot		8.75	8.75	8.75
(g)	Nogli	2x 0.25+4x0.50	2.50	2x 0.25+4x0.50	2.50
(h)	Bhabha (H)	3x40.00	120.00	3x40.00	120.00
(i)	Baner (H)	3x 4.00	12.00	3x 4.00	12.00
(j)	Gaj (H)	3x 3.50	10.50	3x 3.50	10.50
(k)	Sal -2	1x 2	2.00	1x 2	2.00
(l)	Gumma	.	3.00	3.00	3.00
(m)	Ghanvi	2x11.25	22.50	2x11.25	22.50
(n)	Diesel Gen. Sets		0.00	0.00	0.00
(o)	Malana (IPP)	2x43	86.00	2x43	86.00
(p)	Baspa (IPP)	3x100	300.00	3x100	300.00
	Total HP		712.20		712.20
7 J & K					
	HYDRO				
(a)	Lower Jhelum	3x35.0	105.00	3x35.0	105.00
(b)	Upper Sindh	2x11.30+3x35.0	127.60	2x11.30+3x35.0	127.60
(c)	Ganderbal	2x3+2x4.5	15.00	2x3+2x4.5	15.00
(d)	Mohra	2x4.5	9.00	2x4.5	9.00
(e)	Chenani	5x4.66 +2X1.0 +3x2.5	32.80	5x4.66 +2X1.0+3x2.5	32.80
(f)	Stakna	2x2.0 +3x1.25 +2.0	9.75	2x2.0 +3x1.25 +2.0	9.75
(g)	Small Hydel		3.54	3.54	3.54
(h)	Sewa	3x3.0	9.00	3x3.0	9.00
	Total Hydro		311.69		311.69

contd/-

J & K (Contd.)					
	GAS TURBINES				
(h)	Pampore GT St - I	3x25.0	75.00	3x25.0	75.00
	Pampore GT St - II	4x25.0	100.00	4x25.0	100.00
9h)	Total Gas		175.00		175.00
(I)	Diesel Gen. Sets		8.94		7.18
	Total J & K		495.63		493.87
8	PUNJAB				
	HYDRO				
(a)	Jogindernagar/ Shanan	4x15+1x50	110.00	4x15+1x50	110.00
(b)	Upper Behari Doab Canal (UBDC)	3x15+3x15	90.00	3x15+3x15	90.00
(c)	Mukerian	6x15+6x19.5	207.00	6x15+6x19.5	207.00
(d)	Anandpur Sahib (APS)	4x33.5	134.00	4x33.5	134.00
(e)	Ranjit Sagar HPS	4x150	600.00	4x150	600.00
(f)	Small Hydel		4.10	4.10	4.10
	Total Hydro		1145.10		1145.10
	THERMAL				
(g)	Guru Nanak Dev TPS (Bhatinda)	4x110	440.00	4x110	440.00
(h)	Guru Gobind Singh TPS (Ropar)	6x210	1260.00	6x210	1260.00
(i)	Lehra Mohabbat TPS	2x210	420.00	2x210	420.00
(j)	Jhalkeri Rice Straw Fired	1x10	10.00	1x10	10.00
	Total Thermal		2130.00		2130.00
	Total Punjab		3275.10		3275.10
9	RAJASTHAN				
	HYDRO				
(a)	Mahi Bajaj Sagar	2x25+2x45	140.00	2x25+2x45	140.00
(b)	Rana Pratap Sagar (RPS)	4x43	172.00	4x43	172.00
(c)	Jawahar Sagar (JS)	3x33	99.00	3x33	99.00
(d)	Anoopgarh	(3x1.5) x2	9.00	(3x1.5) x2	9.00
(e)	Small Hydro		14.85	14.85	14.85
(f)	Gandhi sagar	5x23	115.00	5x23	115.00
	Total Hydro		549.85		549.85
	THERMAL				
(g)	Kota TPS	2x110+3x210 +1x195	1045.00	2x110+3x210 +1x195	1045.00
(h)	Suratgarh TPS	5x250	1250.00	5x250	1250.00
(i)	Ramgarh GT EXT.	1x35.5+2x37.5	110.50	1x35.5+2x37.5	110.50
	Total Thermal		2405.50		2405.50
(J)	Wind farm		259.94	259.94	259.94
(h)	Bio-mass		7.80		7.80
	Total Rajasthan		3223.09		3223.09
					contd/-

10	UP				
	HYDRO				
(a)	Rihand	6x50.0	300.00	6x50.0	300.00
(b)	Obra	3x33.0	99.00	3x33.0	99.00
(c)	Matatilla	3x10.0	30.00	3x10.0	30.00
(d)	Khara	3x24.0	72.00		72.00
	Total Hydro		501.00		501.00
	THERMAL				
(g)	Obra	5x50	250.00	4x40	160.00
(h)	Obra Extn. - I	3x100	300.00	3x94	282.00
(i)	Obra Extn. - II	5x200	1000.00	5x200	1000.00
(j)	Panki	1x32	32.00	1x32	32.00
(k)	Panki Extn.	2x110	220.00	2x105	210.00
(l)	Harduaganj - A	3x30	90.00	0	0.00
(m)	Harduaganj - B	2x50+2x60	220.00	1x40+2x55	150.00
(n)	Harduaganj - C	2x60+1x110	230.00	2x60+1x105	225.00
(o)	Paricha	2x110	220.00	2x110	220.00
(p)	Anpara - A	3x210	630.00	3x210	630.00
(q)	Anpara - B	2x500	1000.00	2x500	1000.00
	Total Thermal		4192.00		3909.00
	Total UP		4693.00		4410.00
11	UTTRANCHAL				
	HYDRO				
(a)	Khatima	3x13.8	41.40	3x13.8	41.40
(b)	Ramganga	3x66.0	198.00	3x66.0	198.00
(c)	Ganga Canal				
	Chitwa	2x1.5+		2x1.5+	
	Mohamedpur	3x3.1+		3x3.1+	
	Pathri	3x6.8	32.70	3x6.8	32.70
(d)	Yamuna (I & IV)				
	- Dhalipur	3x17.00+		3x17.00+	
	- Dhakrani	3x11.25+		3x11.25+	
	- Kulhal	3x10.00	114.75	3x10.00	114.75
(e)	Chibro	4x60.0	240.00	4x60.0	240.00
(f)	Khodri	4x30.0	120.00	4x30.0	120.00
(g)	Chilla	4x36.0	144.00	4x36.0	144.00
(h)	Maneri Bhali	3x30.0	90.00	3x30.0	90.00
(l)	Sibla+Small hydel		18.20		18.20
	Total Hydro		999.05		999.05
	Total Region (1 to 11)		31747.51		31221.35

SUMMARY OF THE EFFECTIVE GENERATING CAPACITY (MW)

Agency / Source	Hydro	Thermal	Gas/Diesel	Non Conventional Wind/ Bio-mass	Nuclear	Total	% of Total
NTPC	0.00	5825.00	2344.04	0.00	0.00	8169.04	26.16%
NHPC	2284.20	0.00	0.00	0.00	0.00	2284.20	7.32%
SJVNL	1500.00	0.00	0.00	0.00	0.00	1500.00	4.80%
NPC	0.00	0.00	0.00	0.00	1180.00	1180.00	3.78%
BBMB	2866.30	0.00	0.00	0.00	0.00	2866.30	9.18%
CHANDIGARH	0.00	0.00	1.40	0.00	0.00	1.40	0.00%
DELHI	0.00	382.50	612.00	0.00	0.00	994.50	3.19%
HARYANA	62.40	1025.00	25.20	0.00	0.00	1112.60	3.56%
HIMACHAL	712.20	0.00	0.00	0.00	0.00	712.20	2.28%
J&K	311.69	0.00	182.18	0.00	0.00	493.87	1.58%
PUNJAB	1145.10	2130.00	0.00	0.00	0.00	3275.10	10.49%
RAJASTHAN	549.85	2295.00	110.50	267.74	0.00	3223.09	10.32%
UP	501.00	3909.00	0.00	0.00	0.00	4410.00	14.12%
UTTRANCHAL	999.05	0.00	0.00	0.00	0.00	999.05	3.20%
Total	10931.79	15566.50	3275.32	267.74	1180.00	31221.35	100.00%
% of TOTAL	35.01%	49.86%	10.49%	0.86%	3.78%	100.00%	

Notes The above table does not take into account the shares of a state in Generating stations located in the neighbouring states. Such details are :

- (i) Haryana has one-third share in unit Nos. 2, 3, 4 at Indraprastha power stations of Delhi viz. 62.5 MW.
- (ii) HP has 25 % share in the Dhalipur, Dhakrani, Chibro and Khodri power houses of Uttranchal viz. 111.20 MW and 20 % share in the Kulhal and Khara hydro power houses viz. 20.40 MW. However, these shares are limited to actual physical drawals over designated transmission lines.
- (iii) HP has a fixed energy share (royalty) every month in the Shanan Power House of PSEB.
0.38 LU/Day to 2.22 LU/Day.
- (iv) HP has 4.6 % share in Ranjit Sagar Dam project of PSEB viz. 27.60 MW
- (iv) The shares of Rajasthan in Chambal and Satpura projects are as under

CHAMBAL

PROJECT	LOCATED	INSTALLED CAPACITY (MW)
Gandhi Sagar	M.P.	5 x 23 = 115
Rana Pratap Sagar	Rajasthan	4 x 43 = 172
Jawahar Sagar	Rajasthan	3 x 33 = 99
Total		386

Rajasthan has 50 % share in the Chambal Projects viz. 193 MW.

SATPURA

PROJECTS	LOCATED	INSTALLED CAPACITY (MW)
Satpura TPS	M.P.	5x62.5+200.0+3x210.0 = 1142.50

Rajasthan has 40 % share in the first five units of Satpura TPS viz 125 MW.

II. BREAKUP OF HYDRO CAPACITY (MW) IN NORTHERN REGION AS ON 28.02.2005

Agency / Source	Run-of -the -river	Reservoir	Total
NHPC	1264.00	1020.00	2284.00
BBMB	1145.30	1721.00	2866.30
SJVNL	0.00	1500.00	1500.00
DELHI	0.00	0.00	0.00
HARYANA	62.40	0.00	62.40
HP *	712.20	0.00	712.20
J&K	311.69	0.00	311.69
PUNJAB	545.10	600.00	1145.10
RAJASTHAN	262.85	172.00	434.85
UP	201.00	300.00	501.00
UTTRANCHAL	801.05	198.00	999.05
TOTAL	5305.59	5511.00	10816.59
PERCENTAGE	49.05%	50.95%	100%

*** Includes Malana IPP (86 MW) & Baspa IPP (300 MW)**

III.

Frequency Profile

Date	% of Time Frequency in various frequency bands								
	< 48.00	< 48.50	< 49.00	<49.50	49.0-50.5	> 50.00	> 50.50	> 51.00	>51.50
01	0.00	0.00	8.16	50.75	91.84	12.50	0.00	0.00	0.00
02	0.00	0.00	22.02	65.65	77.98	1.91	0.00	0.00	0.00
03	0.00	0.00	20.24	65.59	79.76	5.14	0.00	0.00	0.00
04	0.00	0.00	16.28	62.10	83.69	5.35	0.03	0.00	0.00
05	0.00	0.00	22.60	78.20	77.40	2.47	0.00	0.00	0.00
06	0.00	0.00	3.23	35.74	96.70	27.65	0.07	0.00	0.00
07	0.00	0.00	0.42	7.08	97.43	63.83	2.15	0.00	0.00
08	0.00	0.00	2.12	10.63	79.13	55.87	18.75	3.47	0.00
09	0.00	0.00	3.02	23.06	95.76	37.10	1.22	0.00	0.00
10	0.00	0.00	8.17	43.35	91.83	25.21	0.00	0.00	0.00
11	0.00	0.00	2.78	23.23	94.76	44.10	2.47	0.00	0.00
12	0.00	0.00	0.42	11.25	99.06	50.24	0.52	0.00	0.00
13	0.00	0.00	0.34	6.97	97.68	67.71	1.98	0.00	0.00
14	0.00	0.00	3.56	21.53	94.94	49.93	1.50	0.00	0.00
15	0.00	0.00	4.75	35.41	95.16	18.22	0.09	0.00	0.00
16	0.00	0.00	0.94	15.16	98.89	59.84	0.18	0.00	0.00
17	0.00	0.00	4.24	27.29	95.76	28.58	0.00	0.00	0.00
18	0.00	0.00	0.36	12.59	99.17	47.21	0.47	0.00	0.00
19	0.00	0.00	5.78	33.47	94.22	29.97	0.00	0.00	0.00
20	0.00	0.00	0.63	15.69	99.10	54.27	0.28	0.00	0.00
21	0.00	0.00	6.08	41.15	93.92	24.65	0.00	0.00	0.00
22	0.00	0.00	12.88	56.77	87.12	10.10	0.00	0.00	0.00
23	0.00	0.00	3.34	27.07	96.45	20.95	0.21	0.00	0.00
24	0.00	0.00	1.15	17.40	98.85	33.78	0.00	0.00	0.00
25	0.00	0.00	5.03	32.19	94.90	10.76	0.07	0.00	0.00
26	0.00	0.00	1.01	21.28	98.99	19.13	0.00	0.00	0.00
27	0.00	0.00	1.15	19.58	98.16	30.31	0.69	0.00	0.00
28	0.00	0.00	1.81	24.00	97.99	20.94	0.21	0.00	0.00
29									
30									
31									
Max	0.00	0.00	22.60	78.20	99.17	67.71	18.75	3.47	0.00
Min	0.00	0.00	0.34	6.97	77.40	1.91	0.00	0.00	0.00
Average	0.00	0.00	5.92	31.81	92.93	30.20	1.16	0.13	0.00

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index
Maximum		Minimum			
Freq	Time	Freq	Time		
50.35	5:02	48.53	18:13	49.53	3.62
50.18	21:55	48.56	5:53	49.34	5.70
50.36	16:05	48.55	8:47	49.34	5.82
50.51	18:03	48.55	22:12	49.39	5.07
50.24	23:44	48.57	18:48	49.27	6.36
50.52	4:06	48.58	12:16	49.68	2.58
50.66	23:50	48.55	18:13	50.05	1.07
51.27	2:15	48.58	18:24	50.08	2.46
50.67	0:01	48.56	18:38	49.83	1.99
50.47	23:36	48.53	8:34	49.63	3.36
50.69	2:01	48.69	22:11	49.85	2.07
50.59	13:02	48.73	6:50	49.95	0.94
50.72	13:01	48.90	18:46	50.06	0.89
50.69	4:05	48.59	20:19	49.88	1.98
50.55	5:02	48.56	8:02	49.66	2.43
50.54	18:01	48.83	21:20	49.96	1.40
50.47	4:32	48.62	5:55	49.73	2.12
50.71	18:02	48.73	8:18	49.91	1.11
50.35	21:53	48.73	20:05	49.70	2.44
50.62	18:03	48.95	12:13	49.92	1.22
50.48	5:02	48.56	19:22	49.64	2.99
50.28	5:02	48.54	19:16	49.45	4.45
50.55	18:06	48.66	20:06	49.72	1.97
50.39	16:10	48.60	20:02	49.81	1.31
50.54	18:05	48.56	9:01	49.62	2.51
50.50	5:03	48.54	22:05	49.74	1.52
50.66	17:03	48.63	8:21	49.81	1.44
50.56	18:03	48.75	5:49	49.73	1.78
51.27		48.95		50.08	6.36
50.18		48.53		49.27	0.89
50.54		48.63		49.72	2.62

IV.

Voltage Profile

Date	400 KV Dadri Voltage (kV)				400 KV Kanpur Voltage (kV)				220 KV BTPS Voltage (kV)				400 KV Moga Voltage (kV)			
	Maximum		Minimum		Maximum		Minimum		Maximum		Minimum		Maximum		Minimum	
	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time	Voltage	Time
01	410	08.02	389	05.49	407	08.02	390	12.05	222	21.48	212	18.37	416	09.03	391	17.41
02	410	13.09	390	09.35	407	18.05	388	19.08	221	21.30	212	09.33	418	13.10	395	18.34
03	412	21.53	388	11.18	405	18.03	388	14.20	222	21.52	213	10.53	420	21.50	394	11.18
04	411	21.53	389	05.51	409	09.01	386	04.26	221	01.45	213	09.49	413	01.17	390	14.46
05	416	21.51	395	05.41	411	18.02	386	02.42	225	23.48	214	09.50	421	21.51	394	15.55
06	416	04.03	394	11.32	414	18.03	392	15.37	226	01.30	214	18.27	420	00.00	398	14.27
07	417	03.37	390	15.25	413	21.56	390	15.25	224	01.44	211	18.25	423	03.30	394	15.25
08	424	01.52	391	18.25	421	02.15	389	11.26	228	02.15	213	18.23	423	01.14	394	18.23
09	416	22.58	394	18.36	414	03.06	395	22.36	224	03.02	212	18.37	423	23.32	397	18.36
10	417	21.58	397	05.50	417	03.01	390	12.30	224	03.01	215	07.21	423	03.03	402	18.09
11	419	01.52	389	18.40	417	04.07	392	18.44	226	01.49	212	18.40	426	01.53	394	18.34
12	413	00.30	392	18.37	408	00.58	393	08.32	223	03.14	212	18.37	418	00.31	394	18.32
13	408	18.04	395	05.43	412	21.52	393	18.44	223	02.42	212	18.45	419	00.06	397	18.43
14	414	01.59	394	05.58	408	04.07	391	06.49	224	02.13	212	17.46	419	00.19	391	18.44
15	411	00.59	390	18.46	406	00.00	386	13.49	223	01.00	212	18.47	416	00.57	394	18.47
16	409	21.53	389	18.43	403	21.54	388	15.47	222	21.53	211	18.44	414	23.52	391	18.46
17	412	21.53	387	05.43	407	04.06	386	05.54	223	04.06	213	18.42	419	22.59	389	18.38
18	413	04.07	391	10.18	411	04.07	385	08.03	223	01.14	214	10.18	419	02.27	392	18.43
19	413	04.07	391	10.18	411	04.07	385	08.03	223	01.14	214	10.18	419	02.27	392	18.43
20	411	23.03	391	11.37	406	21.42	390	12.11	223	21.58	214	18.42	417	00.18	394	18.46
21	410	02.11	389	14.19	409	18.15	387	14.21	223	01.51	213	14.49	415	02.08	395	19.22
22	411	22.55	389	14.14	407	22.54	384	14.14	223	01.51	213	14.49	417	22.57	400	07.45
23	412	21.54	387	12.14	411	18.06	385	12.25	222	01.08	212	18.43	416	01.09	393	18.44
24	410	21.22	389	10.33	414	18.01	394	10.30	221	01.59	213	10.32	416	01.53	395	18.53
25	410	18.05	388	18.53	415	18.06	390	11.12	220	0.00	209	18.53	414	21.16	390	18.53
26	409	18.04	387	12.26	412	18.13	394	09.22	220	03.18	210	18.51	412	01.24	391	18.53
27	409	18.04	387	12.26	412	18.13	394	09.22	220	03.18	210	18.51	412	01.24	391	18.53
28	410	18.03	394	05.45	412	18.03	390	05.47	221	21.56	212	18.43	416	21.57	397	18.45
Max	424		397		421		395		228		215		426		402	
Min	408		387		403		384		220		209		412		389	

V. Regional Power Supply Position

(All Figs In MUs)

Date	Peak Hrs.			Off Peak Hrs.			Regional Availability
	Availability (Gross)	Requirement	Shortage/ Restriction	Availability (Gross)	Requirement	Shortage/ Restriction*	
	MW	MW	MW	MW	MW	MW	
01	21485	23576	2091	17168	17583	415	425.50
02	21495	24407	2912	17591	18506	915	429.69
03	21045	23507	2462	17378	17893	515	423.68
04	20941	23121	2180	17685	18500	815	422.40
05	20837	23218	2381	17490	18213	723	418.27
06	20923	23423	2500	15836	16451	615	404.65
07	21268	23768	2500	15602	16217	615	407.54
08	20924	23144	2220	14879	15198	319	397.06
09	20115	21889	1774	16015	16230	215	400.48
10	19449	22627	3178	15734	16464	730	392.13
11	20631	22583	1952	14915	15545	630	406.49
12	20187	22138	1951	15974	16004	30	404.38
13	19462	21412	1950	15984	16014	30	390.65
14	20217	22811	2594	15157	15187	30	389.98
15	19956	22507	2551	15382	15812	430	388.25
16	20603	22992	2389	15896	16126	230	406.40
17	20437	22826	2389	16588	16818	230	409.80
18	20708	23008	2300	16106	16306	200	415.99
19	20568	22510	1942	16403	16433	30	416.98
20	20231	22309	2078	16738	16968	230	408.07
21	19544	22515	2971	16145	16245	100	405.92
22	19939	22291	2352	16508	16538	30	405.85
23	21304	23728	2424	16842	16972	130	426.70
24	21182	23622	2440	17552	17682	130	426.54
25	21731	23587	1856	17098	17348	250	416.26
26	21638	23224	1586	18076	18106	30	435.63
27	21634	23220	1586	18085	18115	30	435.41
28	21316	23118	1802	17923	17953	30	431.30
Maximum	21731	24407	3178	18085	18506	915	435.63
Minimum	19449	21412	1586	14879	15187	30	388.25
Average	20706	22967	2261	16527	16837	310	412.21

*Note: * Shortage / Restriction figures are as given by the constituents.*

VI. Daily Peak/Off-Peak Demand Met By Constituents (Sheet 1 of 2) (figures in MW)

State	Punjab		Haryana		Rajasthan		Delhi		Uttar Pradesh	
Date	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
01	3383	2329	2774	2252	3872	3831	2443	1359	5031	4856
02	3368	2499	2815	2264	3761	3827	2842	1399	5146	4922
03	3299	2267	2718	2212	3618	3848	2766	1349	4961	5002
04	3357	2429	2631	2145	3773	3857	2830	1366	4977	5174
05	3288	2616	2602	2246	3660	3713	2691	1397	5023	5140
06	3240	2278	2726	1717	3737	3081	2695	1295	4900	5207
07	3399	1913	2471	1451	3734	3567	2849	1336	4888	5093
08	3469	2186	2411	1314	4225	3758	2752	1290	4930	4169
09	3189	2184	2367	1654	3728	3357	2553	1289	5156	5064
10	3059	2138	2211	1687	3330	3459	2640	1321	4957	4687
11	3353	2126	2246	1470	3671	3255	2574	1300	5123	5109
12	3449	2184	2205	1695	3649	3598	2475	1290	4951	5428
13	3307	2180	2418	1714	3573	3660	2399	1373	4653	5198
14	3381	2089	2449	1613	3614	3634	2585	1208	4746	4751
15	3351	2053	2363	1636	3454	3649	2434	1349	4846	4535
16	3140	2140	2541	1705	3709	3637	2511	1228	4968	5089
17	3341	2072	2220	1759	3660	3782	2616	1236	5024	5320
18	3594	2037	2572	1805	3816	3814	2575	1253	5039	5206
19	3218	2177	2623	1934	3796	3856	2598	1271	5053	5578
20	3218	2177	2623	1934	3692	3865	2569	1253	5053	5578
21	3123	2050	2259	1882	3724	3676	2614	1236	5075	5398
22	3209	2177	2023	1929	3594	3851	2695	1285	5360	5192
23	3335	2182	2778	2086	3968	3892	2557	1256	5168	5767
24	3235	2234	2834	2242	3846	3903	2645	1235	5165	5577
25	3420	2319	2621	2168	3983	3391	2572	1269	5144	5602
26	3332	2585	2738	2273	3559	3930	2572	1233	5055	5856
27	3332	2585	2738	2273	3559	3930	2572	1233	5055	5856
28	3241	2470	2702	2290	4225	3758	2541	1189	4827	5619
Maximum	3594	2616	2834	2290	4225	3930	2849	1399	5360	5856
Minimum	3059	1913	2023	1314	3330	3081	2399	1189	4653	4169
Average	3308	2238	2524	1905	3733	3692	2613	1289	5009	5213

Remarks: Peak - 1900 hrs offpeak - 0300 hrs

VI. Daily Peak/Off-Peak demand Met By Constituents (Sheet 2 of 2) (Figures in MW)

State	Uttaranchal		Chandigarh		Himachal Pradesh		Jammu & Kashmir	
Date	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak	Peak	Off Peak
	568	426	164	81	561	302	1026	827
	534	431	164	77	579	320	1062	945
	603	441	161	77	584	350	1062	945
	602	435	161	76	578	333	1036	946
	600	433	162	74	560	339	1031	955
	607	437	142	75	602	333	1073	938
	601	410	159	72	552	285	1067	751
	666	392	153	69	579	303	673	850
	690	439	151	76	525	331	677	570
	594	424	161	76	567	337	805	654
	611	372	158	79	578	302	816	371
	602	399	151	71	520	334	597	433
	632	385	136	71	578	315	621	506
	629	393	152	71	571	336	782	437
	683	383	159	74	580	341	779	623
	653	370	151	72	580	322	872	564
	693	404	155	74	587	360	877	672
	624	395	154	77	556	315	501	631
	627	403	157	69	537	350	441	279
	671	368	140	75	541	341	495	293
	633	378	155	70	564	344	493	322
	665	394	157	74	613	322	601	373
	673	408	154	77	590	337	732	442
	691	399	152	73	535	373	649	534
	678	416	151	76	575	331	629	583
	692	389	149	69	544	344	875	619
	692	389	149	69	544	344	875	619
	700	399	144	70	549	308	529	636
Maximum	700	441	164	81	613	373	1073	955
Minimum	534	368	136	69	520	285	441	279
Average	640	404	154	74	565	330	774	619

Remarks: Peak - 1900 hrs offpeak - 0300 hrs

VII Daily Energy Consumption By Constituents

(All Figs In MUs)

Date	Punjab	Haryana	Rajasthan	Delhi	UP	Uttaranchal	Chandigarh	HP	J & K	NFF/RAIL	Total
01	61.383	52.684	91.390	52.620	107.498	12.152	3.014	10.647	23.262	1.518	416.168
02	62.568	53.829	89.279	53.400	109.360	12.228	3.042	10.774	22.985	1.538	419.003
03	60.867	53.411	85.330	52.170	110.478	12.321	2.976	9.080	23.191	1.533	411.356
04	62.335	51.607	85.616	52.750	110.706	12.544	2.977	10.928	23.359	1.503	414.325
05	62.955	49.417	82.871	50.860	112.080	12.143	2.992	11.272	23.599	1.598	409.787
06	59.933	41.559	82.733	48.330	110.038	12.187	2.893	11.209	23.346	1.557	393.785
07	59.050	42.142	85.468	51.000	111.845	12.411	3.021	11.194	21.024	1.558	398.713
08	62.028	41.152	88.810	49.480	105.820	11.955	2.855	10.922	19.954	1.493	394.469
09	60.896	43.994	84.284	49.760	109.733	13.137	2.976	11.639	15.683	1.553	393.654
10	58.353	41.697	81.831	48.680	104.362	12.750	2.964	11.401	17.962	1.606	381.606
11	61.095	41.436	88.917	48.790	113.500	12.147	2.866	11.193	17.379	1.651	398.973
12	62.252	43.473	88.185	46.960	116.168	11.859	2.783	10.811	11.711	1.493	395.695
13	60.030	43.048	88.035	44.840	107.343	11.924	2.547	10.748	11.471	1.537	381.523
14	61.290	43.371	86.683	47.160	103.680	12.123	2.865	10.840	13.263	1.601	382.875
15	60.546	43.503	82.965	47.810	102.637	12.543	2.962	12.169	17.606	1.559	384.301
16	61.115	44.381	87.321	47.770	110.761	11.935	2.874	11.387	17.311	1.539	396.394
17	59.656	43.995	86.598	48.720	112.731	12.426	2.662	11.986	18.330	1.674	398.778
18	61.722	46.820	88.838	49.060	119.494	11.931	2.783	11.866	14.281	1.639	408.434
19	64.826	47.892	89.107	47.370	116.774	12.005	3.075	11.518	9.440	1.685	403.692
20	60.029	48.017	88.232	47.340	117.879	11.795	2.754	11.335	10.154	1.621	399.156
21	59.160	46.487	84.861	49.280	116.457	12.430	2.912	11.477	10.490	1.661	395.215
22	60.464	46.756	82.205	50.320	116.579	12.872	2.929	11.595	11.254	1.692	396.666
23	62.776	52.065	89.539	49.770	122.568	12.293	2.906	12.059	14.173	1.670	419.820
24	63.386	52.859	87.049	49.380	119.585	12.487	2.772	10.993	16.158	1.717	416.385
25	65.929	53.303	88.882	49.300	112.399	12.483	2.796	11.420	15.819	1.634	413.966
26	67.301	53.523	90.054	47.630	120.235	12.401	2.741	11.291	17.750	1.667	424.594
27	67.301	53.523	90.054	45.420	120.235	12.401	2.455	11.308	17.114	1.616	421.428
28	65.986	53.424	87.896	46.700	121.342	12.375	2.912	11.411	17.278	1.585	420.908
Maximum	67.301	53.829	91.390	53.400	122.568	13.137	3.075	12.169	23.599	1.717	424.594
Minimum	58.353	41.152	81.831	44.840	102.637	11.795	2.455	9.080	9.440	1.493	381.523
Average	61.973	47.477	86.894	49.024	112.939	12.295	2.868	11.231	16.977	1.596	403.274
Month Total	1735.232	1329.368	2433.035	1372.670	3162.286	344.258	80.304	314.474	475.345	44.698	11291.670

VIII. Schedule VS Actual Drawals of Northern Regional Constituents (Sheet 1 of 2)

Date	Punjab		Haryana		Rajasthan		Delhi		Uttar Pradesh		Uttaranchal	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Feb-2005	22365	20512	21289	22203	27640	30683	25469	24215	53585	50013	7439	7929
2-Feb-2005	22142	19785	20993	23675	27018	30998	25445	24355	53892	51923	7576	8349
3-Feb-2005	21958	18326	21529	21928	28247	33181	25413	24475	53815	50700	7556	8078
4-Feb-2005	21965	19200	20750	19753	27654	32124	24756	23869	51282	48279	7255	7914
5-Feb-2005	21173	19057	20076	20335	26716	28868	24379	23293	48702	46799	6688	7757
6-Feb-2005	20955	18867	19656	14522	25964	33358	24340	21780	48715	45995	6691	7983
7-Feb-2005	22538	20725	19931	15800	26706	28573	25557	23800	52084	50188	7316	7553
8-Feb-2005	24068	21418	19516	19457	25778	28417	24595	23265	51566	46356	7834	5157
9-Feb-2005	22302	24400	19242	20059	23824	26282	24473	23666	50509	48525	7260	6494
10-Feb-2005	22286	21597	19043	21007	24787	27277	24940	21960	51313	51768	6750	7193
11-Feb-2005	22668	25274	19654	22783	26417	28926	25415	22942	55216	51416	7293	7042
12-Feb-2005	24010	24921	21023	25811	25142	31509	26014	22962	56298	53822	7166	6679
13-Feb-2005	23523	25180	20868	23811	24815	31898	24133	23985	54137	50697	7114	6564
14-Feb-2005	22423	23856	20746	24412	24700	29106	24294	25282	50045	46323	6703	6957
15-Feb-2005	22636	23294	20814	24036	25409	25872	24058	24952	51783	49448	6826	8034
16-Feb-2005	23727	24577	20837	25640	25617	28642	25156	23232	52152	48318	7509	6234
17-Feb-2005	22881	23920	20564	28023	25306	27988	24544	23229	54661	49257	7485	6454
18-Feb-2005	22765	22586	21444	30296	25408	28542	24439	21931	53663	50766	7124	5632
19-Feb-2005	20884	20631	19689	28779	24250	28885	23118	19719	52778	51460	7060	5504
20-Feb-2005	20885	22300	20062	28361	24226	28301	22747	20040	53098	49373	7055	5478
21-Feb-2005	20324	20894	20017	27168	23761	26518	23158	20208	49968	49555	6834	5772
22-Feb-2005	20326	21026	20622	25200	24059	29124	22957	20755	49685	48628	6607	6845
23-Feb-2005	23193	24076	22333	25803	25305	29580	24802	19648	55086	53966	7416	7270
24-Feb-2005	22744	23085	21878	26177	26128	31314	25253	18915	56412	57262	7571	7040
25-Feb-2005	22816	21025	22322	27502	26331	34349	25232	20324	56555	53706	7683	7283
26-Feb-2005	22565	22406	22362	31226	26547	31384	25262	17889	56561	53833	7644	7532
27-Feb-2005	22900	20924	22206	29088	26906	37171	25922	16656	56072	53897	7559	7135
28-Feb-2005	22842	22178	22112	29039	25694	35653	25690	16242	54953	52330	7372	6957
Total MU	625.864	616.040	581.578	681.894	720.355	844.523	691.561	613.589	1484.586	1414.603	202.386	194.819
Max. MWH	24068	25274	22362	31226	28247	37171	26014	25282	56561	57262	7834	8349
Min MWH	20324	18326	19043	14522	23761	25872	22747	16242	48702	45995	6607	5157
Avg. MWH	22352	22001	20771	24353	25727	30162	24699	21914	53021	50522	7228	6958

VIII. Schedule vs Actual Drawals of Northern Regional Constituents (Sheet 2 of 2)**Figs. In MWH**

Date	Himachal Pradesh		Jammu & Kashmir		Chandigarh		NFF		Railways	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Feb-2005	7979	8113	15186	21547	3252	3152	34	63	1386	1455
2-Feb-2005	8119	8295	15044	21526	3238	3133	38	63	1383	1475
3-Feb-2005	7969	8767	14998	21533	3202	3108	46	63	1646	1470
4-Feb-2005	7888	8635	14473	21659	3095	3101	23	63	1643	1440
5-Feb-2005	7763	8742	14341	21794	3010	3132	18	64	2041	1534
6-Feb-2005	7720	8953	14368	21476	3018	2996	19	64	2110	1493
7-Feb-2005	8536	9004	16685	19422	3163	3112	17	60	1637	1498
8-Feb-2005	8302	8676	17227	18535	3231	3019	13	52	1295	1441
9-Feb-2005	8265	9178	16826	13856	3109	3095	24	54	1093	1499
10-Feb-2005	8113	8666	17182	16093	3078	3095	21	53	975	1553
11-Feb-2005	9042	8430	18384	15670	3296	3019	27	51	1275	1600
12-Feb-2005	8927	7798	17938	10873	3297	2860	33	51	1482	1442
13-Feb-2005	8476	7712	16567	10134	3226	2683	34	49	1140	1488
14-Feb-2005	8363	7434	16302	11904	3180	2958	34	66	991	1535
15-Feb-2005	8359	8653	17524	15302	3157	3134	62	71	850	1488
16-Feb-2005	8573	7684	18060	14772	3196	2951	12	78	1142	1461
17-Feb-2005	8660	8366	18083	15935	3266	2918	17	82	1178	1592
18-Feb-2005	9023	8351	17531	13019	3236	2966	23	81	1040	1558
19-Feb-2005	8480	8349	15029	9133	3170	3068	36	83	1145	1602
20-Feb-2005	8309	8271	14091	10092	3134	2871	38	74	829	1547
21-Feb-2005	8003	8355	13561	9953	2961	3042	7	58	1060	1603
22-Feb-2005	8066	8523	13011	10167	2890	3066	14	42	1053	1650
23-Feb-2005	9375	9056	16844	12981	3301	3015	19	53	1538	1617
24-Feb-2005	9470	7985	16840	14867	3500	2897	16	50	1292	1667
25-Feb-2005	9376	8479	16897	14208	3515	2921	20	43	1048	1591
26-Feb-2005	9367	8289	16927	15773	3526	2857	28	49	1225	1618
27-Feb-2005	9507	8340	17150	15350	3549	2722	41	57	1145	1559
28-Feb-2005	9592	8274	16610	15455	3490	2855	40	76	1179	1509
Total MU	239.622	235.378	453.679	433.029	90.286	83.746	0.754	1.713	35.821	42.985
Max. MWH	9592	9178	18384	21794	3549	3152	62	83	2110	1667
Min MWH	7720	7434	13011	9133	2890	2683	7	42	829	1440
Avg. MWH	8558	8406	16203	15465	3225	2991	27	61	1279	1535

IX Schedule vs Actual Injection of ISGS (Sheet 1 of 4)

Figs. In MWH

Date	Singrauli		Rihand		Dadri(T)		Unchahar-I		Unchahar-II		Dadri GPS	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Feb-2005	44280	44793	22080	22427	18552	18734	9264	9549	9192	9469	15205	15089
2-Feb-2005	44280	45064	22080	22437	18552	18744	9264	9599	9192	9528	12867	12669
3-Feb-2005	44280	44875	22080	22365	18552	18841	9272	9589	9200	9515	13423	13427
4-Feb-2005	44235	44728	14760	14991	18552	18807	8738	8951	9216	9523	13774	13830
5-Feb-2005	44280	45012	10560	10959	18552	18903	4488	4644	9216	9526	16535	16759
6-Feb-2005	44265	44775	10560	10886	18552	18762	4476	4601	9163	9407	15754	15317
7-Feb-2005	43975	44456	15754	15875	18552	18013	8315	8338	8999	9015	13714	12882
8-Feb-2005	43646	43781	17116	16212	17718	17489	9084	8901	8891	8813	11611	11275
9-Feb-2005	44120	44406	10815	10982	17888	18068	9225	9315	9089	9224	12781	12534
10-Feb-2005	44345	44772	11545	11787	18552	18699	9239	9453	9110	9340	10513	10239
11-Feb-2005	44085	44384	21896	22089	18118	18051	9077	9161	8776	8907	10597	10209
12-Feb-2005	44345	44711	22043	22181	18308	18471	9190	9278	8959	9061	13662	13005
13-Feb-2005	44520	44680	22155	22281	18030	18019	9269	9279	9109	9114	11580	10871
14-Feb-2005	44520	44868	22200	22334	18552	18601	5775	5725	8848	8960	9506	8902
15-Feb-2005	44520	45023	22200	22458	17835	18832	4499	4593	9205	9400	8535	8055
16-Feb-2005	44358	44483	21902	22078	18267	18137	6460	6383	9144	9134	8355	7972
17-Feb-2005	44272	44939	21852	22215	17690	18743	9306	9475	9197	9420	9863	9605
18-Feb-2005	44520	45072	22024	22184	17798	18400	9271	9396	9154	9321	9730	9363
19-Feb-2005	44520	45003	22080	22161	17284	18013	9276	9364	9162	9285	9821	9395
20-Feb-2005	44640	45084	22119	22315	17222	17654	9276	9384	9168	9277	9934	9336
21-Feb-2005	44640	45133	13955	14182	18195	18956	9270	9486	9144	9355	10251	10002
22-Feb-2005	44640	45036	10658	10784	18438	19002	9336	9520	9264	9442	10742	10753
23-Feb-2005	44540	44820	16482	16779	18395	18748	9336	9509	9264	9438	11583	11221
24-Feb-2005	44400	44695	21960	22135	18267	18729	9336	9486	9264	9406	9435	8973
25-Feb-2005	44400	44750	21960	22161	18267	18910	9286	9516	9179	9427	9358	9172
26-Feb-2005	44400	44870	22021	22240	18267	18753	9336	9481	9264	9425	9479	9187
27-Feb-2005	42373	42793	22080	22369	18552	18736	9331	9465	9256	9383	9390	9121
28-Feb-2005	40320	40708	22080	22379	18552	18820	9306	9504	9216	9395	9536	9251
Total MU	1235.719	1247.714	529.017	534.246	510.059	518.635	237.301	240.945	255.841	260.510	317.534	308.414
Max. MWH	44640	45133	22200	22458	18552	19002	9336	9599	9264	9528	16535	16759
Min MWH	40320	40708	10560	10784	17222	17489	4476	4593	8776	8813	8355	7972
Avg. MWH	44133	44561	18893	19080	18216	18523	8475	8605	9137	9304	11341	11015

IX. Schedule vs Actual Injection of ISGS (Sheet 2 of 4)

Date	Anta GPS		Auraiya GPS		NAPS		RAPS-B		Bairasiul		igs. In MWH	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Feb-2005	8123	8150	8824	8551	8016	8061	8976	8945	780	787	3075	3107
2-Feb-2005	8288	8327	10983	11007	8040	8019	9024	8936	780	787	2760	2787
3-Feb-2005	8800	8335	11406	11317	8136	8055	9024	8951	810	817	2760	2787
4-Feb-2005	9211	8440	11346	11245	8112	8006	8976	8975	780	787	3075	3108
5-Feb-2005	8840	8768	11127	11146	8112	7959	9000	8957	810	818	3180	3210
6-Feb-2005	8409	8379	10809	10632	8088	7967	9024	8975	780	786	3023	3051
7-Feb-2005	7878	7543	10441	10057	8040	8031	9000	9076	1440	1453	7250	7238
8-Feb-2005	6990	6819	9951	9625	8040	7933	9024	9049	1902	1912	8280	8304
9-Feb-2005	6796	6498	10346	10132	8064	7870	9144	9000	2483	2484	8280	8360
10-Feb-2005	7153	6860	9904	9849	7992	7870	9120	8966	2126	2144	8220	8307
11-Feb-2005	7275	6954	9588	9342	7920	7963	9000	9007	2292	2310	7714	7799
12-Feb-2005	6695	6294	9424	9143	7968	7980	9024	9029	4149	4185	8280	8365
13-Feb-2005	5955	5487	8689	8376	8040	8117	9072	9090	3588	3615	8280	8362
14-Feb-2005	5257	4837	8159	8096	8016	8155	9096	9028	2907	2932	8130	8190
15-Feb-2005	7048	6972	9001	8937	8160	8085	9144	8957	2547	2568	7065	7155
16-Feb-2005	7281	7024	8859	8707	8160	8183	9072	9157	2502	2520	8280	8362
17-Feb-2005	6698	6721	8553	8515	8160	8198	9000	9151	2427	2445	6925	6995
18-Feb-2005	6146	5749	8076	7971	8160	8209	9192	9238	2501	2521	8143	8138
19-Feb-2005	5982	5446	8181	8068	8160	8153	9216	9278	2905	2930	5520	5581
20-Feb-2005	6111	5230	8145	7992	8304	8284	9240	9289	2547	2569	6483	6546
21-Feb-2005	5194	5259	8504	8528	8208	8321	9288	9216	2232	2251	7844	7913
22-Feb-2005	5582	5777	9602	9732	8304	8247	9288	9189	2217	2237	7164	7235
23-Feb-2005	6072	5946	9098	9040	8376	8163	9288	9229	2442	2457	7581	7651
24-Feb-2005	6255	5907	8810	8709	8352	8115	9288	9203	2262	2282	7551	7621
25-Feb-2005	6298	5848	8744	8739	8208	8124	9264	9167	2157	2176	7230	7295
26-Feb-2005	6556	5659	9070	8995	8232	8158	9264	9156	2472	2494	7680	7754
27-Feb-2005	6811	6059	9271	9132	8184	8189	9216	9123	2757	2782	7831	7903
28-Feb-2005	6395	5927	8990	8945	8232	8112	9168	9037	2727	2751	7745	7830
Total MU	194.099	185.215	263.901	260.528	227.784	226.527	255.432	254.374	60.322	60.800	185.349	186.954
Max. MWH	9211	8768	11406	11317	8376	8321	9288	9289	4149	4185	8280	8365
Min MWH	5194	4837	8076	7971	7920	7870	8976	8936	780	786	2760	2787
Avg. MWH	6932	6615	9425	9305	8135	8090	9123	9085	2154	2171	6620	6677

IX. Schedule & Actual Injection of ISGS (Sheet 3 of 4)

Figs. In MWH

Date	Tanakpur		Chamera		Uri		Bhakra Complex		Dehar		Pong	
	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual	Schedule	Actual
1-Feb-2005	854	871	0	6	3027	3092	9448	9129	3079	2997	2932	2985
2-Feb-2005	906	916	0	7	3216	3356	9414	9057	3105	3170	2816	2928
3-Feb-2005	803	811	0	13	3179	3324	9471	9114	3030	3067	2816	2831
4-Feb-2005	784	794	0	13	3413	3539	9678	9117	3030	2848	2816	2819
5-Feb-2005	770	782	0	11	3994	4185	9624	8910	2661	2399	2838	2862
6-Feb-2005	727	731	0	11	4244	4368	9624	9097	2511	2051	2810	2804
7-Feb-2005	626	630	0	6	4490	4706	9579	8790	3030	2825	2652	2515
8-Feb-2005	975	988	0	0	5271	3954	9769	8795	5149	5131	1058	1027
9-Feb-2005	1343	1358	0	-7	5981	4104	7893	7675	4894	5092	326	321
10-Feb-2005	969	978	0	-7	7310	5925	7716	7456	6110	5957	0	-43
11-Feb-2005	910	926	0	-9	8040	5538	7669	7543	5598	5488	0	-50
12-Feb-2005	921	930	0	-3	4588	520	7307	7064	6503	6416	929	855
13-Feb-2005	902	912	0	0	799	295	7540	7535	6500	6267	1218	1214
14-Feb-2005	866	878	0	0	1300	1361	7540	7497	6919	6700	1215	1163
15-Feb-2005	852	865	0	0	7061	4822	7540	7319	4054	4159	529	486
16-Feb-2005	895	901	0	0	7419	4574	7540	7590	6378	6324	0	-58
17-Feb-2005	838	853	0	0	8592	5401	7540	7378	5016	5454	0	-49
18-Feb-2005	798	808	0	0	5310	3448	7540	7411	5785	5336	0	-54
19-Feb-2005	789	797	0	0	540	38	7644	7458	4624	4454	0	-55
20-Feb-2005	762	771	0	0	0	0	7540	7335	4363	4359	0	-42
21-Feb-2005	780	794	0	-7	0	0	7540	7470	4590	4647	0	-35
22-Feb-2005	761	769	0	-3	500	647	7530	7537	4273	4325	0	-37
23-Feb-2005	768	780	4895	5528	8331	3079	7530	7423	4573	4573	0	-37
24-Feb-2005	722	740	8544	8613	6833	5018	7530	7390	4803	4675	0	-37
25-Feb-2005	758	771	8544	8615	7200	4727	7530	7562	4795	4575	0	-55
26-Feb-2005	757	763	8544	8615	6720	6131	7530	7321	4321	4223	345	304
27-Feb-2005	740	750	8544	8596	7200	5672	7530	7413	4831	4634	510	510
28-Feb-2005	768	770	8544	8605	6000	5970	7530	7612	5530	5703	284	286
Total MU	23.344	23.637	47.615	48.603	130.558	97.794	227.866	220.998	130.055	127.849	26.094	25.358
Max. MWH	1343	1358	8544	8615	8592	6131	9769	9129	6919	6700	2932	2985
Min MWH	626	630	0	-9	0	0	7307	7064	2511	2051	0	-58
Avg. MWH	834	844	1701	1736	4663	3493	8138	7893	4645	4566	932	906

IX. Schedule & Actual Injection of ISGS (Sheet 4 of 4)

igs. In MWH

Date	Nathpa-Jhakri HEP		Chamera stage-II	
	Schedule	Actual	Schedule	Actual
1-Feb-2005	5477	5524	1129	1113
2-Feb-2005	5749	5795	1006	1015
3-Feb-2005	5467	5514	1104	1115
4-Feb-2005	5477	5526	1036	1059
5-Feb-2005	5650	5679	1154	1171
6-Feb-2005	5591	5637	1104	1134
7-Feb-2005	5686	5714	1147	1154
8-Feb-2005	4988	5017	1104	1117
9-Feb-2005	4694	4723	1550	1568
10-Feb-2005	4994	5028	1203	1220
11-Feb-2005	5860	5910	1673	1685
12-Feb-2005	5597	5629	2020	2035
13-Feb-2005	5619	5643	1302	1314
14-Feb-2005	5969	6026	1079	1089
15-Feb-2005	6360	6377	1765	1781
16-Feb-2005	6358	6415	1708	1722
17-Feb-2005	6459	6518	1765	1779
18-Feb-2005	6989	7029	1758	1768
19-Feb-2005	6296	6357	1574	1590
20-Feb-2005	6112	6142	1292	1098
21-Feb-2005	6160	6216	1474	1476
22-Feb-2005	6077	6117	1453	1456
23-Feb-2005	6001	6027	1490	1492
24-Feb-2005	5839	5882	1431	1437
25-Feb-2005	5866	5922	1411	1417
26-Feb-2005	5831	5882	1300	1307
27-Feb-2005	6052	6097	1748	1756
28-Feb-2005	6255	6308	1970	1984
Total MU	163.473	164.654	39.750	39.852
Max. MWH	6989	7029	2020	2035
Min MWH	4694	4723	1006	1015
Avg. MWH	5838	5881	1420	1423

X. Daily Generation Details of State Sector Stations

(All Figs In MUs)

Date	Punjab(T)	Punjab(H)	Haryana(T)	Haryana(H)	Rajasthan(T)	Rajasthan(H)	UP (T)	UP (H)	Uttaranchal(H)	Delhi(T)	HP+B'PA(H)	J & K(H+GT)	Total
01	33.951	5.410	20.831	0.565	51.649	4.862	47.779	0.384	4.518	16.137	2.560	1.71	190.36
02	35.913	5.283	20.452	0.631	49.654	4.587	47.454	0.592	4.474	16.101	2.504	1.46	189.10
03	35.347	5.299	20.906	0.598	43.408	4.780	50.289	0.000	4.660	15.343	0.316	1.66	182.60
04	36.000	5.284	22.312	0.595	45.151	4.340	50.397	1.140	5.098	15.980	2.316	1.70	190.31
05	36.378	5.775	19.518	0.574	46.344	3.660	52.375	1.595	5.107	15.290	2.556	1.80	190.98
06	33.998	5.125	18.898	0.575	40.723	4.444	52.375	1.595	4.866	13.961	2.279	1.87	180.71
07	32.753	4.591	18.212	0.617	48.620	4.212	52.016	0.677	5.288	15.218	2.212	1.60	186.02
08	30.030	9.552	14.893	0.915	46.259	4.700	51.383	0.615	7.275	14.660	2.269	1.42	183.97
09	28.579	7.010	15.117	0.879	49.241	4.628	49.834	1.505	6.987	13.913	2.486	1.83	182.01
10	30.290	6.029	14.631	0.844	46.924	3.538	42.057	2.299	6.053	14.709	2.763	1.87	172.01
11	33.183	2.810	13.354	0.833	53.206	2.274	47.810	1.505	5.842	13.946	2.791	1.71	179.26
12	34.294	2.695	12.373	0.752	50.271	2.338	49.046	1.318	5.884	12.282	3.043	0.84	175.13
13	30.371	4.346	13.924	0.525	49.748	2.300	45.053	1.312	5.757	9.239	3.067	1.34	166.98
14	31.985	5.103	13.186	0.727	49.474	3.670	45.530	0.689	5.529	10.406	3.440	1.36	171.10
15	31.901	6.884	13.768	0.716	49.155	3.928	44.465	0.695	5.376	10.278	3.552	2.30	173.02
16	29.488	7.832	13.582	0.859	50.705	3.911	53.750	0.554	6.314	11.143	3.740	2.54	184.42
17	30.222	6.158	10.670	0.820	50.274	4.138	53.750	0.554	6.546	11.624	3.657	2.39	180.81
18	33.462	6.073	11.116	0.735	51.162	4.592	55.295	0.755	7.000	13.596	3.550	1.26	188.60
19	35.117	7.994	13.966	0.711	50.877	5.004	55.134	1.136	7.216	14.208	3.201	0.31	194.87
20	31.286	7.028	14.016	0.711	51.316	4.575	56.054	1.410	6.880	13.436	3.095	0.06	189.87
21	34.143	4.053	13.933	0.677	49.037	5.079	54.296	2.946	6.906	14.990	3.154	0.54	189.75
22	33.858	5.334	16.167	0.664	44.385	4.909	54.534	2.836	6.812	15.583	3.103	1.09	189.27
23	33.756	4.938	18.891	0.644	51.150	4.855	55.290	1.808	5.724	15.921	3.033	1.19	197.20
24	34.480	4.934	18.819	0.592	46.962	4.876	51.887	2.143	5.819	16.744	3.038	1.29	191.59
25	40.865	3.262	17.812	0.573	45.579	5.083	46.015	1.981	5.555	16.528	2.971	1.61	187.83
26	42.064	2.580	14.196	0.568	50.007	4.593	57.520	1.292	5.372	15.710	3.032	1.98	198.91
27	42.064	2.580	14.196	0.568	50.007	4.593	57.520	1.292	5.372	15.710	2.998	1.76	198.66
28	33.601	9.091	18.834	0.689	45.658	4.646	57.943	1.539	5.656	16.539	3.169	1.82	199.19

XI. Performance Of Generating Stations

S.No.	Power Station	Effective Capacity MW	Energy Generated during February 2005 (Ex Bus MU)	Cummulative from 01.04.2004 (Ex-bus MU)
1	CENTRAL SECTOR			
A	NTPC (Thermal)			
(a)	Badarpur TPS	705.00	385.35	4649.64
(b)	Singrauli STPS	2000.00	1247.57	13364.02
(c)	Rihand STPS	1000.00	534.71	6632.90
(d)	Dadri NCTPS	840.00	518.57	5697.17
(e)	Unchahar-I TPS	420.00	240.94	2771.92
(f)	Unchahar-II TPS	420.00	260.51	2838.20
(g)	Tanda TPS	440.00	249.73	2645.24
(h)	Anta GPS	419.33	185.21	2471.03
(i)	Auraiya GPS	663.36	260.53	3701.05
(j)	Dadri GPS	829.78	308.07	4944.06
(k)	Faridabad GPS	431.57	181.52	2824.66
	Total NTPC	8169.04	4372.72	52539.89
B	NHPC			
(a)	Bairasiul	180.00	60.81	553.49
(b)	Salal	690.00	186.95	3084.89
(c)	Tanakpur HPS	94.20	23.65	465.10
(d)	Chamera HPS	540.00	48.59	1787.59
(e)	Uri HPS	480.00	97.79	1920.18
(f)	Chamera2 HPS	300.00	39.91	1238.22
	Total NHPC	2284.20	457.70	9049.47
C	Nathpa-Jhakri	1500.00	164.65	4873.06
D	NPC			
(a)	RAPS -A	300.00	88.26	1110.21
(b)	RAPS -B	440.00	254.41	2348.98
(c)	NAPS	440.00	226.57	2189.02
	Total NPC	1180.00	569.23	5648.22
2	JOINTLY OWNED (BBMB)			
(a)	Bhakra Complex	1480.30	228.69	4235.28
(b)	Dehar	990.00	127.92	2812.04
(c)	Pong	396.00	25.62	867.59
	Total BBMB	2866.30	382.23	7914.90
3	DELHI			
(a)	Indra Prastha	247.50	52.04	740.26
(b)	Rajghat	135.00	46.23	550.68
(c)	Gas Turbines	282.00	112.61	1400.00
(d)	Pragati Gas	330.00	187.73	2313.73
	Total DELHI	994.50	398.62	5004.66
4	HARYANA			
(a)	WYC	62.40	19.22	262.26
(b)	Faridabad (New)	165.00	63.95	708.44
(c)	Panipat	860.00	441.04	4745.54
(d)	Magnum Diesel(IPP)*	25.20	10.08	84.23
	Total Haryana	1112.60	534.29	5800.48

contd/-

5 HP				
(a)	Giri	60.00	13.71	133.09
(b)	Bassi	60.00	10.40	251.79
(c)	Binwa	6.00	2.71	27.58
(d)	Rongtong (+Nogli+Micro+Thirot+Sal-2)	15.25	5.98	43.34
(e)	Andhra	16.95	1.74	50.47
(f)	Bhabha (H)	120.00	14.04	565.50
(g)	Baner (H)	12.00	2.35	36.06
(h)	Gaj (H)	10.50	4.05	43.84
(i)	Gumma	3.00	0.15	3.48
(j)	Ghanvi	22.50	3.05	67.21
(k)	Malana (IPP)	86.00	5.89	253.40
(l)	Baspa (IPP)	300.00	23.86	1169.31
	Total HP	712.20	87.92	2645.07
6 J & K				
(a)	Lower Jhelum	105.00	23.92	371.60
(b)	Upper Sindh	127.60	5.53	167.36
(c)	Ganderbal	15.00	1.63	23.23
(d)	Mohra	9.00	0.00	0.00
(e)	Chenani	32.80	7.59	83.51
(f)	Stakna	9.75	0.00	0.00
(g)	Small Hydel	3.54	0.80	5.70
(h)	Sewa	9.00	1.18	0.00
(i)	Diesel gen set	7.18	3.13	0.00
(j)	Pampore GT St - I	75.00	1.18	7.48
(k)	Pampore GT St - II	100.00	3.13	15.88
	Total J & K	493.87	48.08	674.76
7 PUNJAB				
(a)	Jogindernagar/ Shanan	110.00	19.71	475.55
(b)	UBDC	90.00	20.69	356.82
(c)	Mukerian	207.00	28.46	791.54
(d)	Anandpur Sahib (APS)	134.00	1.87	381.98
(e)	Ranjit Sagar HPS	600.00	80.47	1035.24
(f)	Small Hydel	4.10	0.30	1.10
(g)	GNDTPS (Bhatinda)	440.00	131.14	1616.40
(h)	GGSTPS (Ropar)	1260.00	570.69	7705.76
(i)	Jhalkeri	10.00	6.00	11.85
	Peda & Sugarmill		12.00	69.39
(j)	Lehra Mohabbat TPS	420.00	239.29	2757.28
	Total Punjab	3275.10	1110.61	15202.91
8 RAJASTHAN				
(a)	Mahi Bajaj Sagar	140.00	17.54	225.69
(b)	Rana Pratap Sagar (RPS)	172.00	56.24	335.77
(c)	Jawahar Sagar (JS)	99.00	37.22	251.65
(d)	Gandhi sagar	115.00		
(d)	ACW	9.00	0.91	9.02
(e)	MMH	14.85	1.55	8.51
(f)	Kota TPS	1045.00	632.38	6293.16
(g)	RAMGARH GT			
(h)	RAMGARH GT EXT	110.50	37.71	299.93
(i)	Suratgarh TPS	1250.00	686.46	7820.56
(j)	Wind Farm	259.94	20.51	326.10
(k)	Others	7.80	2.56	33.45
	Total Rajasthan	3223.09	1493.07	15603.85

contd/-

9	U.P.			
	<u>HYDRO</u>			
(a)	Rihand	300.00	15.12	461.94
(b)	Obra	99.00	5.89	193.13
(c)	Matatilla	30.00	16.02	140.16
(d)	Khara	72.00	0.00	251.20
	Total U.P. (Hydro)	501.00	37.02	1046.43
	<u>THERMAL</u>			
(e)	Obra	1442.00	420.64	4344.50
(f)	Panki	242.00	76.90	825.19
(g)	Harduaganj	375.00	33.84	528.27
(h)	Paricha	220.00	62.46	804.51
(i)	Anpara	1630.00	849.76	9119.77
	Total U.P. (Thermal)	3909.00	1443.59	15622.24
	Total U.P.	4410.00	1480.61	16668.67
10	UTTRANCHAL			
(a)	Khatima	41.40	11.21	169.48
(b)	Ramganga	198.00	23.64	165.16
(c)	Ganga Canal	32.70	10.91	133.17
(d)	Yamuna (I & IV)	114.75	23.64	817.65
(e)	Chibro	240.00	39.05	563.28
(f)	Khodri	120.00	19.56	266.86
(g)	Chilla	144.00	35.40	702.16
(h)	Maneri Bhali	90.00	0.00	0.00
(i)	Sibla+Small hydel	18.20		
	Total Uttranchal	999.05	163.41	2817.76
11	CHANDIGARH			
	Diesel gen set	1.40		
	Total Region	31221.35	11263.14	144443.69

* Includes generation of MUL and Sugar fed GOHANA

- Notes : 1. The ex-bus generations are either actual values or based on the following assumptions in respect of auxiliary consumption
- Hydro and diesel/gas power stations in open cycle-----1.0% Nuclear stations-----12.5%
 - Gas power stations in combined cycle-----3.0%
 - Coal fired power stations
 - IP---12% Faridabad---13.5% Suratgarh---10.0%
 - Rajghat---11% Panipat---12.0% KTPS---10.0%
 - UP---12.5% Lehra Mohabat---10.5%
 - Tanda---12.5% RTP---7.5%
 - GNDTP---10.5%

XII. DETAILS OF ENERGY EXCHANGES THROUGH BILATERAL AGREEMENTS (INTRA-REGIONAL) DURING FEBRUARY 2005

(ALL FIGS IN MUs)

FROM / TO	PUNJAB	HARYANA	RAJASTHAN	DELHI	UP	UTTRANCHAL	HP	J & K	CHANDIGARH	MALANA
PUNJAB	-		-		-				-	-
HARYANA	-	-	-	11.784*** 50.960****		-	3.615****	-	-	4.834*
RAJASTHAN		-	-		-	-	-	-		
DELHI	-	21.84****	-		-	-		-	-	-
UP	-	-	-	-	-	-		-	-	-
UTTRANCHAL	47.4****	-	-	-	-	-		-	-	-
HP	35.2**** 4.399***	- 4.32****	-		3.696***	12.550***	-	-	-	-
J & K		-	-		-	-	-	-	-	-
CHANDIGARH	-	-	-	-	-	-	-	-	-	-

* Through PTC

** Through NVVN

*** Shared projects



**** Through Banking/ Agreement

REMARKS : Figures are provisional and indicative only.

XIII. DETAILS OF ENERGY EXCHANGES THROUGH BILATERAL AGREEMENTS (INTER-REGIONAL) DURING FEBRUARY 2005

(ALL FIGS IN MUs)									
FROM / TO	GRIDCO	BSEB	WBPCL	TATA	GEB	DVC	APTRANSCO	Meghalaya	TRIPURA
PUNJAB			30.047**+13.523***WR 19.906*		.682*WR			-	
HARYANA			16.264* 23.503***+9.960***WR					2.520***	10.041***
RAJASTHAN	8.4***		20.9* 15.43***+6.167***WR				7.372**WR		
DELHI						--			
UP									
UTTRANCHAL	-			-	-	-	-	-	
J & K	11.400*		13.992*		-	-	-	-	
CHANDIGARH									

* Through PTC

(+ Import by NR constituents

** Through Tata

(- Export by NR constituents

*** Throgh NVVN

**** Through ADANI

REMARKS : are provisional and indicative only

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Summary of inter regional exchanges for February 2005

Date	Vindhyachal HVDC B/B							Auraiya - Malanpur						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	150	239	300	0	3.60	0.00	3.60	-30	-27	0	30	0.00	0.72	-0.72
02	200	350	400	0	5.15	0.00	5.15	-26	-24	0	35	0.00	0.72	-0.72
03	0	300	400	50	3.95	0.01	3.94	-27	-25	0	36	0.00	0.73	-0.73
04	0	321	450	0	4.92	0.00	4.92	-23	-24	0	30	0.00	0.66	-0.66
05	0	500	500	0	4.43	0.00	4.43	-38	-35	0	30	0.00	0.76	-0.76
06	0	325	500	0	4.67	0.00	4.67	-36	-35	0	42	0.00	0.77	-0.77
07	0	100	250	500	1.07	1.74	-0.67	-30	-25	0	40	0.00	0.79	-0.79
08	0	-400	200	450	0.71	2.98	-2.28	-35	-30	0	40	0.00	0.79	-0.79
09	0	71	105	200	0.14	0.93	-0.78	-35	-30	0	38	0.00	0.75	-0.75
10	0	105	200	150	1.79	0.03	1.77	-35	-30	0	38	0.00	0.85	-0.85
11	50	-100	214	200	1.41	0.28	1.13	-33	-28	0	35	0.00	0.79	-0.79
12	-100	-150	120	250	0.37	0.78	-0.41	-31	-30	0	34	0.00	0.77	-0.77
13	0	-50	69	150	0.49	0.58	-0.09	-31	-30	0	34	0.00	0.70	-0.70
14	100	-150	100	150	0.59	0.63	-0.04	-37	-30	0	34	0.00	0.70	-0.70
15	0	100	337	50	3.02	0.07	2.94	-32	-30	0	34	0.00	7.71	-7.71
16	0	-100	110	100	0.87	0.68	0.19	0	-30	0	35	0.00	0.65	-0.65
17	0	0	137	50	1.11	0.01	1.10	-28	-30	0	35	0.00	0.70	-0.70
18	0	-50	137	150	1.16	0.42	0.74	-18	-28	0	39	0.00	0.67	-0.67
19	52	50	144	300	0.72	0.67	0.05	-18	-28	0	39	0.00	0.74	-0.74
20	0	144	144	200	1.47	0.09	1.39	-23	-26	0	38	0.00	0.70	-0.70
21	0	-50	265	100	1.50	0.13	1.37	-18	-28	0	36	0.00	0.74	-0.74
22	0	151	387	0	3.30	0.00	3.30	-36	-30	0	36	0.00	0.75	-0.75
23	0	208	208	0	2.04	0.00	2.04	-35	-32	0	35	0.00	0.74	-0.74
24	0	64	64	50	0.56	0.46	0.10	-28	-30	0	30	0.00	0.68	-0.68
25	0	158	158	200	1.39	0.20	1.19	-32	-35	0	38	0.00	0.65	-0.65
26	50	80	115	250	0.64	0.14	0.51	-31	-35	0	37	0.00	0.76	-0.76
27	50	80	115	250	0.64	0.14	0.51	-31	-35	0	37	0.00	0.76	-0.76
28	0	-250	89	350	0.30	1.29	-1.00	-33	-37	0	39	0.00	0.87	-0.87
Maximum	200	500	500	500	5.15	2.98	5.15	0	-24	0	42	0.00	7.71	-0.65
Minimum	-100	-400	64	0	0.14	0.00	-2.28	-38	-37	0	30	0.00	0.65	-7.71
Average	20	73	222	148	1.86	0.44	1.42	-29	-30	0	36	0.00	0.99	-0.99
Month Tota					52.00	12.24	39.76					0.00	27.60	-27.60

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Smmmary of inter regional exchanges for February 2005

Date	Ujjain - Kota							Sasaram HVDC B/B						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	0	0	0	0	0.00	0.00	0.00	230	410	450	0	9.37	0.00	9.37
02	0	0	0	0	0.00	0.00	0.00	300	450	500	0	10.36	0.00	10.36
03	0	0	0	0	0.00	0.00	0.00	229	450	450	0	9.35	0.00	9.35
04	0	0	0	0	0.00	0.00	0.00	228	435	475	0	9.81	0.00	9.81
05	0	0	0	0	0.00	0.00	0.00	275	500	500	0	9.98	0.00	9.98
06	0	0	0	0	0.00	0.00	0.00	224	425	434	0	9.12	0.00	9.12
07	0	0	0	0	0.00	0.00	0.00	228	311	460	0	8.39	0.00	8.39
08	0	0	0	0	0.00	0.00	0.00	229	300	400	0	7.16	0.00	7.16
09	0	0	0	0	0.00	0.00	0.00	225	225	418	0	7.18	0.00	7.18
10	0	0	0	0	0.00	0.00	0.00	231	200	500	0	7.87	0.00	7.87
11	0	0	0	0	0.00	0.00	0.00	230	230	500	0	7.54	0.00	7.54
12	0	0	0	0	0.00	0.00	0.00	230	326	442	0	8.59	0.00	8.59
13	0	0	0	0	0.00	0.00	0.00	333	330	442	0	8.51	0.00	8.51
14	0	0	0	0	0.00	0.00	0.00	231	337	500	0	9.11	0.00	9.11
15	0	0	0	0	0.00	0.00	0.00	225	337	500	0	9.33	0.00	9.33
16	0	0	0	0	0.00	0.00	0.00	228	350	436	0	8.15	0.00	8.15
17	0	0	0	0	0.00	0.00	0.00	228	228	436	0	7.82	0.00	7.82
18	0	0	0	0	0.00	0.00	0.00	229	315	438	0	7.98	0.00	7.98
19	0	0	0	0	0.00	0.00	0.00	228	288	439	0	8.38	0.00	8.38
20	0	0	0	0	0.00	0.00	0.00	250	271	440	0	7.25	0.00	7.25
21	0	0	0	0	0.00	0.00	0.00	140	185	405	0	8.38	0.00	8.38
22	0	0	0	0	0.00	0.00	0.00	150	375	475	0	8.59	0.00	8.59
23	0	0	0	0	0.00	0.00	0.00	125	369	400	0	7.63	0.00	7.63
24	0	0	0	0	0.00	0.00	0.00	124	325	400	0	6.21	0.00	6.20
25	0	0	0	0	0.00	0.00	0.00	160	200	370	0	5.75	0.00	5.75
26	0	0	0	0	0.00	0.00	0.00	150	270	357	0	6.62	0.00	6.62
27	0	0	0	0	0.00	0.00	0.00	150	270	357	0	6.62	0.00	6.62
28	0	0	0	0	0.00	0.00	0.00	152	500	500	0	6.46	0.00	6.46
Maximum	0	0	0	0	0.00	0.00	0.00	333	500	500	0	10.36	0.00	10.36
Minimum	0	0	0	0	0.00	0.00	0.00	124	185	357	0	5.75	0.00	5.75
Average	0	0	0	0	0.00	0.00	0.00	213	329	444	0	8.12	0.00	8.12
Month Total					0.00	0.00	0.00					227.48	0.01	227.47

Smmmary of inter regional exchanges for February 2005

Date	Sahupuri - Karamnasa							Rihand-Son Nagar						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
02	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
03	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
04	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
05	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
06	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
07	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
08	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
09	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
10	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
11	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
12	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
13	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
14	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
15	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
16	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
17	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
18	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
19	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
20	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
21	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
22	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
23	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
24	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
25	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
26	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
27	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
28	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0.00	0.00	0.00
Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Month Total					0.00	0.00	0.00					0.00	0.00	0.00

POWERGRID CORPORATION OF INDIA LTD.
NRLDC, New Delhi

Operational data

Smmmary of inter regional exchanges for February 2005

Date	Shahupuri-Pussauli							Rihand- Garvha						
	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total	Peak MW	Off Peak MW	Max Import	Max Export	Energy Import	Energy Export	Total
	MW	MW	MW	MW	MU	MU	MU	MW	MW	MW	MW	MU	MU	MU
01	116	87	139	0	2.66	0.00	2.66	0	0	0	0	0.00	0.00	0.00
02	142	120	147	0	2.96	0.00	2.96	0	0	0	0	0.00	0.00	0.00
03	128	132	156	0	3.00	0.00	3.00	0	0	0	0	0.00	0.00	0.00
04	115	122	150	0	3.07	0.00	3.07	0	0	0	0	0.00	0.00	0.00
05	115	122	153	0	3.00	0.00	3.00	0	0	0	0	0.00	0.00	0.00
06	134	112	153	0	3.03	0.00	3.03	0	0	0	0	0.00	0.00	0.00
07	135	91	150	0	2.39	0.00	2.39	0	0	0	0	0.00	0.00	0.00
08	130	90	145	0	2.49	0.00	2.49	0	0	0	0	0.00	0.00	0.00
09	127	113	147	0	2.83	0.00	2.83	0	0	0	0	0.00	0.00	0.00
10	127	136	147	0	2.57	0.00	2.57	0	0	0	0	0.00	0.00	0.00
11	105	119	147	0	2.91	0.00	2.91	0	0	0	0	0.00	0.00	0.00
12	110	121	150	0	2.94	0.00	2.94	0	0	0	0	0.00	0.00	0.00
13	110	121	126	0	2.99	0.00	2.99	0	0	0	0	0.00	0.00	0.00
14	136	112	136	0	2.66	0.00	2.66	0	0	0	0	0.00	0.00	0.00
15	140	110	140	0	2.72	0.00	2.72	0	0	0	0	0.00	0.00	0.00
16	145	125	150	0	2.83	0.00	2.83	0	0	0	0	0.00	0.00	0.00
17	113	122	154	0	3.06	0.00	3.06	0	0	0	0	0.00	0.00	0.00
18	130	140	154	0	3.34	0.00	3.34	0	0	0	0	0.00	0.00	0.00
19	130	146	153	0	3.04	0.00	3.04	0	0	0	0	0.00	0.00	0.00
20	120	144	160	0	2.93	0.00	2.93	0	0	0	0	0.00	0.00	0.00
21	130	116	145	0	3.00	0.00	3.00	0	0	0	0	0.00	0.00	0.00
22	140	128	142	0	2.60	0.00	2.60	0	0	0	0	0.00	0.00	0.00
23	141	130	145	0	2.97	0.00	2.97	0	0	0	0	0.00	0.00	0.00
24	140	130	145	0	3.08	0.00	3.08	0	0	0	0	0.00	0.00	0.00
25	120	170	32	0	3.08	0.00	3.08	0	0	0	0	0.00	0.00	0.00
26	135	160	178	0	3.22	0.00	3.22	0	0	0	0	0.00	0.00	0.00
27	135	160	178	0	3.22	0.00	3.22	0	0	0	0	0.00	0.00	0.00
28	129	132	188	0	3.43	0.00	3.43	0	0	0	0	0.00	0.00	0.00
Maximum	145	170	188	0	3.43	0.00	3.43	0	0	0	0	0.00	0.00	0.00
Minimum	105	87	32	0	2.39	0.00	2.39	0	0	0	0	0.00	0.00	0.00
Average	128	125	147	0	2.93	0.00	2.93	0	0	0	0	0.00	0.00	0.00
Month Total					81.99	0.00	81.99					0.00	0.00	0.00

XV. Status Of Installation Of Shunt Capacitors As On 28.02.2005**(All fig. In MVARs)**

STATE/UT	Requirement by 31.03.2005	Installed as on 31.03.2004	Additional Requirement for 2004-2005	Programme as furnished by SEB's	Installed during 2004-05 upto 28.02.2005	Balance to be installed during 2004-05	Capacitors installed as on 28.02.2005
DELHI	3135	** 3021	567	-	222	345	3243
HARYANA	2920	3269	141	500	147	-6	3416
PUNJAB	4564	4721	551	500	218	333	4939
RAJASTHAN	2650	2895	189	500	288	-99	3183
UP	4890	5192	477	700	0	477	5192
UTTRANCHAL	350	125	244	45	55	189	180
HP	305	311	41	-	0	41	311
J&K	915	147	790	500	0	790	147
BBMB	381	381	0	-	0	0	381
CHANDIGARH	140	100	55	-	0	55	100
TOTAL	20250	20162	3055	2745	930	2125	21092

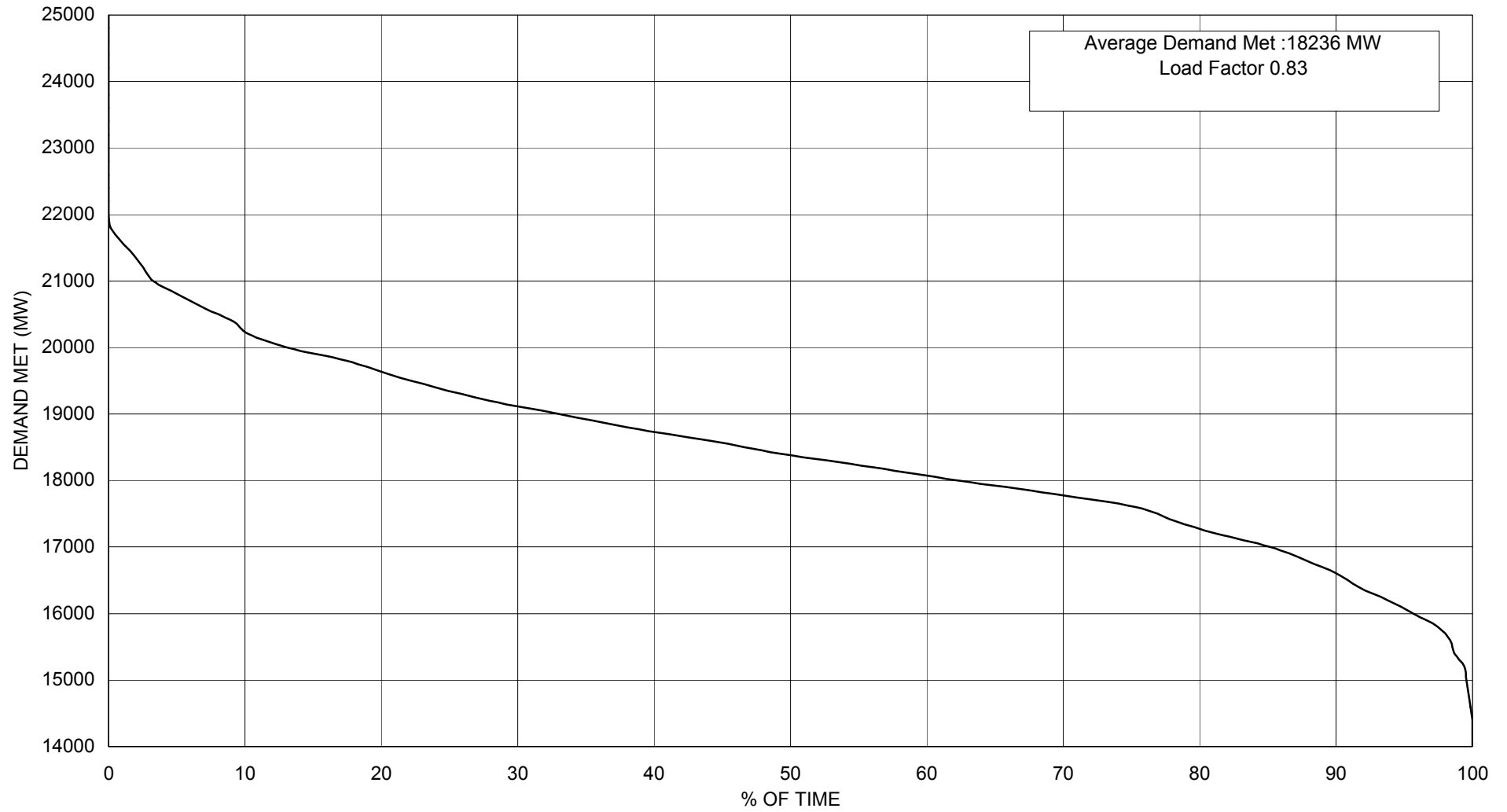
NOTE: However the effective installed capacitors are assumed to be 85% of column II** i.e 17195

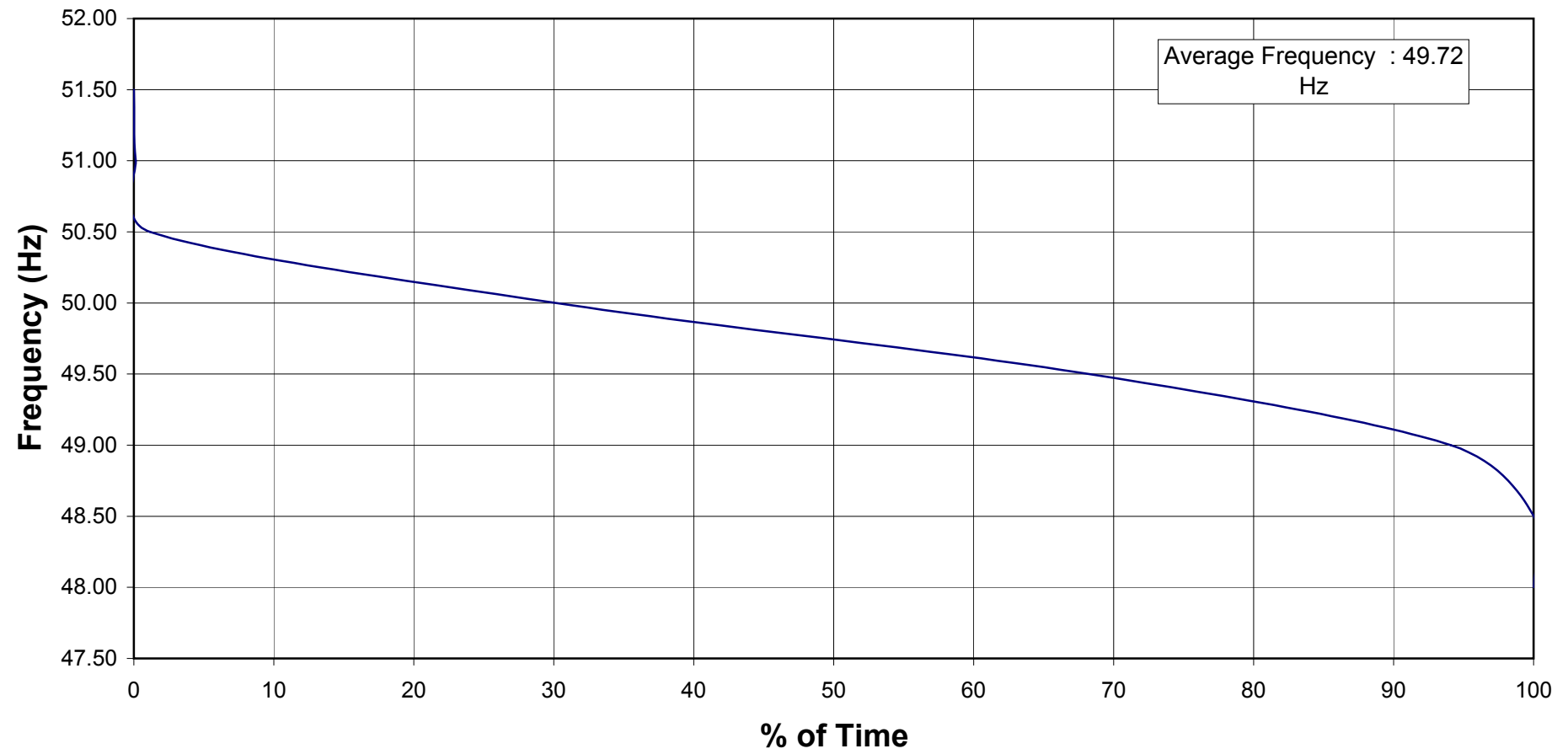
XVI. Hydraulic Data For Reservoirs During February 2005

Item	Bhakra	Pong	Rihand	R.P.S.	Gandhi Sagar (M.P.)
Full Reservoir Level (m)	514.50	433.12	268.22	352.65	402.64
(FRL) (ft)	1688.00	1421.00	880.00	1157.00	1321.00
Min. Draw Down Level (m)	445.62	384.05	252.98	342.90	381.00
(MDDL) (ft)	1462.00	1260.00	830.00	1125.00	1250.00
Level on last day of FEBRUARY 2005 (m)	466.70	402.80	256.40	349.74	386.12
	1531.18	1321.51	841.20	1147.44	1266.80
Level on last day of FEBRUARY 2004 (m)	477.02	404.58	259.08	344.74	381.27
	1565.04	1327.37	850.00	1131.04	1250.88
Live Capacity as on last day of FEBRUARY 2005 (mhmt)	0.16	0.22	0.09	0.10	0.09
	1.29	1.78	0.73	0.81	0.73
Live Capacity as on last day of FEBRUARY 2004 (mhmt)	0.22	0.25	0.19	0.02	0.00
	1.82	2.02	1.50	0.16	0.01
Energy content as on last day of FEBRUARY 2005 (MU)	460.00	270.00	150.00	190.00	290.00
Energy content as on last day of FEBRUARY 2004 (MU)	790.00	295.00	320.00	37.00	10.00
Maximum level (m)	468.86	402.80	256.73	349.92	388.07
(ft)	1538.24	1321.52	842.30	1148.02	1273.19
(date)	01.02.2005	27.02.2005	01.02.2005	01.02.2005	01.02.2005
Minimum level (m)	466.70	400.90	256.40	349.74	386.12
(ft)	1531.18	1315.30	841.20	1147.44	1266.80
(date)	28.02.2005	08.02.2005	28.02.2005	28.02.2005	28.02.2005

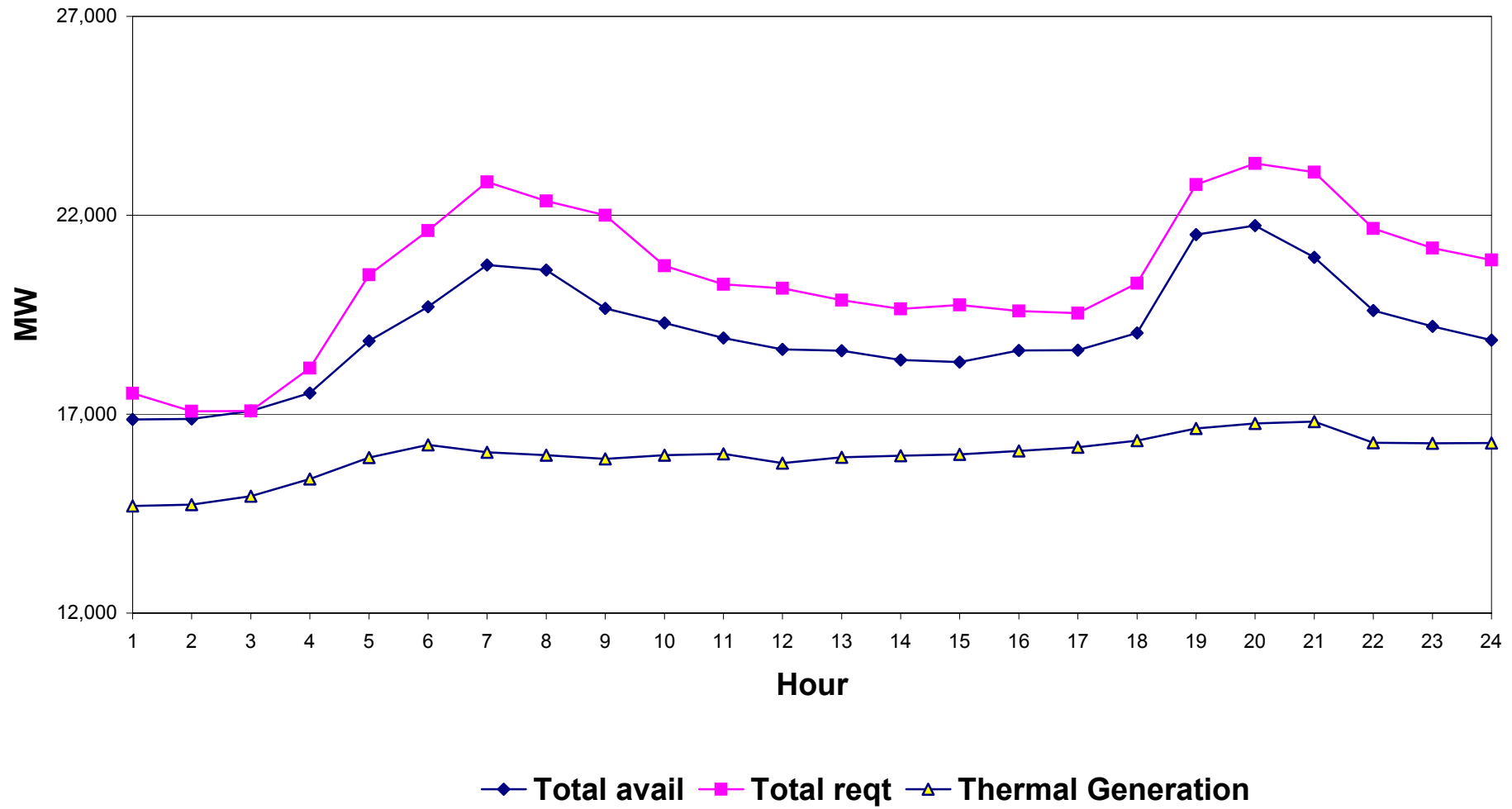
Energy content of Bhakra : Total Energy content at Bhakra, Ganguwal and Kotla power stations
Energy content of Rihand : Total Energy content at Rihand & Obra power stations
Energy content of RPS : Total Energy content of Rana Pratap Sagar and Jawahar Sagar Power Stations.
Energy Content of G. Sagar : Total Energy content at Gandhi Sagar, RP Sagar and Jawahar Sagar Power Stations.

Load Duration Curve For Northern Region For February 2005

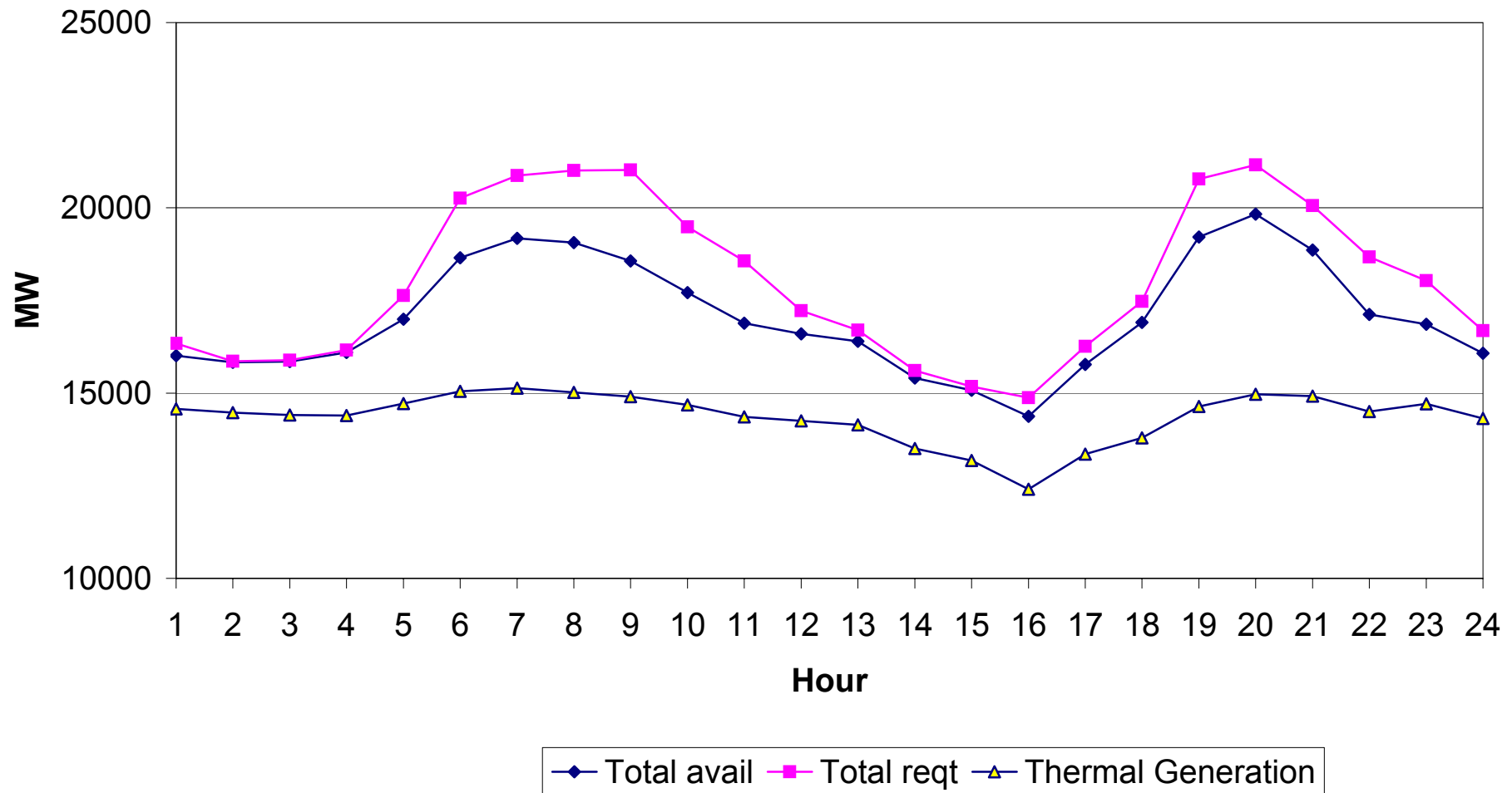


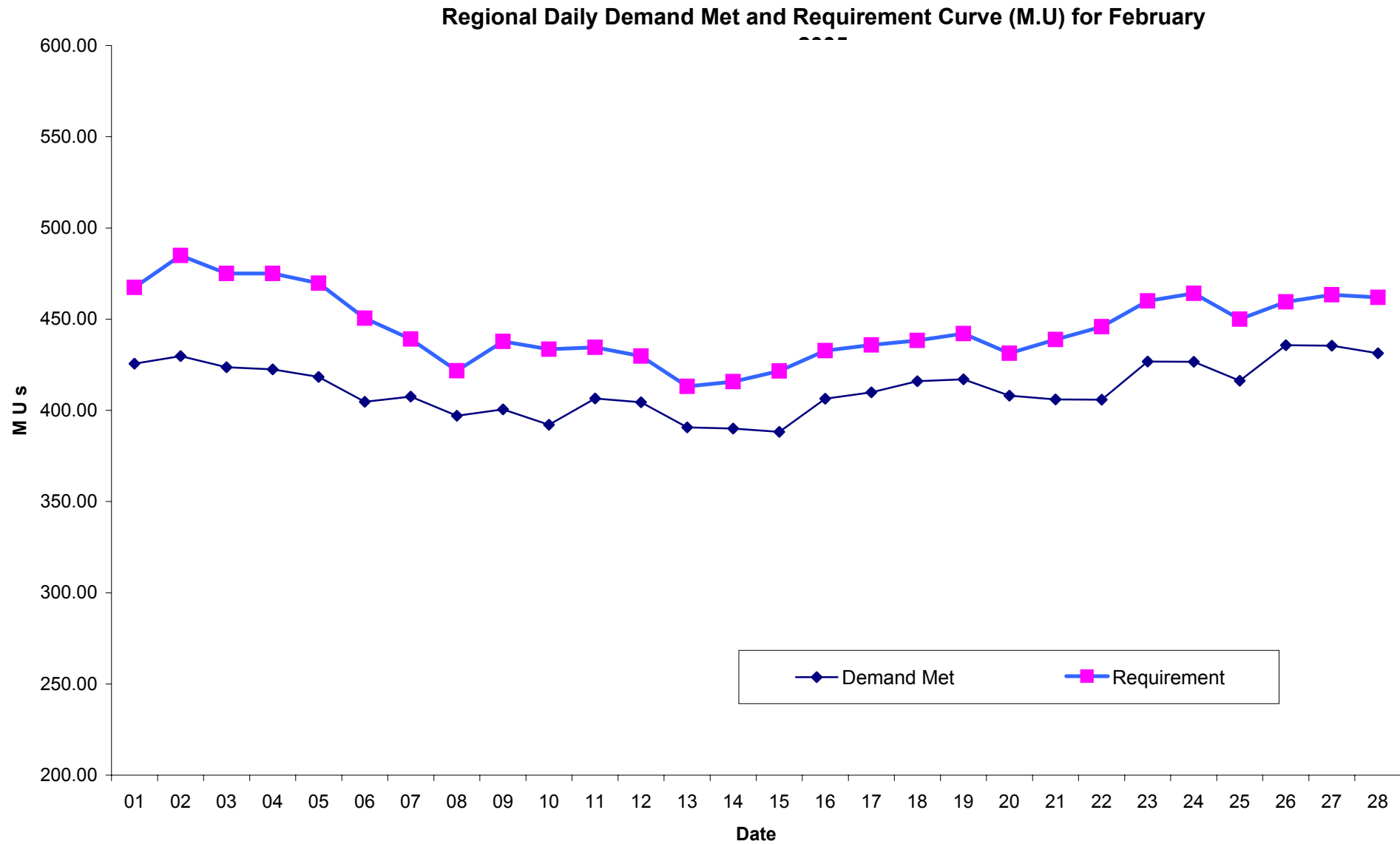
Frequency Duration Curve For Northern Region For February 2005

Load Curve Of Northern Region For Maximum Demand Met Day (25th February 2005)



Load Curve Of Northern Region For Minimum Demand Met Day (13th February 2005)





Grid Incident during February 2005		
DATE	TIME	INCIDENT
05.02.2005	23.33	Due to heavy storm and rain in the Rengus area , the isolator of 220 kv Rengus-Heerapura feeder at 220 KV GSS Rengus opened which caused heavy sparking between the open poles of the isolators. The operator at Reengus GSS manually tripped one by one all feeders emanating from the substaion
		Due to opening of these feeeders about 450 mw generation as being received from STPS was cut-off. This caused overloading of other lines beyond maximum limits and power swing occured on other 220 KV lines and caused tripping of 220 kv Jhunjhunu-Khetri and Bikaner-Nagour line, therby, throwing off another 300 MW additional load . Therefore , approximately 750 MW load was thrown off from STPS generation of 1200 MW causing tripping of all five units on over speed.All the machines were revived by 13.02 hrs of 06.02.2005
08.02.2005	11.27	At unnao bus fault occured on BUS-I at 11.27 hrs which caused tripping of 400 KV Anpara-Unnao, Unnao-Agra, Unnao-Bareilly-I&II, Unnao-Panki ,Unnao-Bareilly and ICT-I . At 11.48 hrs BUS-II also tripped on bus fault leading to tripping of ICT-II and 400 KV Unnao-Lucknow line.This resulted in complete black out at Unnao station. All elements were revived by 17.21 hrs of 08.02.2005.
08.02.2005	18.32	Due to heavy snow fall in J&K 220 KV Kisenpur-Pampore D/C tripped at 18.32 hrs of 08.02.2005 due to collapse of towers at loc. No. 38-39 , 44-45 and snapping of conductors etc., badly affecting power supply in the valley. The valley was connected to the grid through 132 kv Udampur-Wanpoh line. The generation at Uri and the load in the valley area was regulated through proper coordination among RLDC, Bemina control room and URI HEP to run the system in stable condition for few days (till 17.02.2005). However this line also developed technical snags on many occasions and finally J&K valley power supply was maintained by running URI HEP in island mode . During this period around 350-380 MW power was made available to J&K valley . Special efforts are being made to restore the 220 KV Kisenpur- Pampore line despite adverse weather conditions and line is expected to be normalised by first week of march 2005.

[illegible]